				List			I-LI-3010	).93-5140-79	7-GC1-001	
THE	PI BV	CLIENT:			Е	& P			SHEET:	of 77
101		JOB:			PRESA	LT FPSOs				
		AREA:			PETROBR	AS 67 (P-67	7)			
	- COD'	TITLE:				/	<u>,                                      </u>		COPP	ORATE
	i-E&P/ I/IEREPI		PMS a	and Topside	e Electrical	Automation	System -	I/O List		REPL
DESIGNER:	1,1211211	_				ТЕ	ECH RESP:		IER	(EPL
GE I	POWER (	CONVE	RSION					Raimundo N	lonato Vaso	concelos
FILE NAME:	WOF	RD 2003	s/ I-LI-3010.9	3-5140-797	-GC1-001_F	.doc	ITIALS:		RNV	
CONTRACT:	640	.SP.012	2/2013	<sup>GE N⁰:</sup> 4M	LN0062	No	CREA:	МС	G-46103/D	
				IND	EX OF R	EVISION	S			
REV.			D	ESCRIPT	TION ANI	D/OR RE	VISED S	HEETS		
	Initial I	ssue:	This doc	ument re	places the	e cancelle	ed docum	ent		
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	-LI-30	10.93	-5140-80	0-GC1-00	or at Rev	. A				
Α	Update	ed afte	er custom	er comm	ents and	interface	s clarifica	itions		
В	Update	ed afte	er Interco	nnecting	clarificati	ons				
С	Lindate	ad afte	er custom	er comm	ente & cla	arification	16			
	-									
D	Update	ed afte	er custom	er comm	ents & cla	arification	IS			
Е	Update	ed afte	er Factory	/ Accepta	ince Test	s (FAT)				
F	Certifie	ed								
			T		T	T				
DATE	-	EV. 0 04/2014	REV. A 05/26/2014	REV. B 06/03/2014	REV. C 08/26/2014	REV. D 12/24/2014	REV. E 02/27/2015	REV. F 06/02/2016	REV. G	REV. H
DESIGN	03/0	GE	GE	GE	GE	GE	GE	GE		
EXECUTION	N ,	YBH	YBH	YBH	YBH	YBH	YBH	EPT		
CHECK		PCT	PCT	PCT	PCT	PCT	PCT	IAL		
APPROVA		NALD	RONALD	RONALD	RONALD	RONALD	RONALD	IQ		
			OPERTY OF PETR	OBRAS, BEING PR	OHIBITED OUTSID	E OF THEIR PURP	OSE			
FORM OWNED	TO PETROB	RAS N-038	31 REV. L							



## PETROBRAS PRESALT FPSO P-67

## **GATEWAY & POWER MANAGEMENT SYSTEM**

## PMS and Topside Electrical Automation System - I/O List

Change Number:

Author: P.COTTRET

Design Office: SD-Massy

Revision: Rev E

Revision Date: Feb 27 2015

Reason for new issue: Updated after customer comments & Clarifications

(see last page for modification record)

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								,	PMS Power Management System GTW Gateway VSD Normoties Speed Orive RI Intelligent Body RI Intelligent Regrossed Met Husblander Regrossed Formation Regrossed Formation Regrossed	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired wth synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P44	1	TGCP	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	TGCP	GTW	S	N			Y
0	P44	1	TGCP	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	TGCP	GTW	S	N			Y
0	P44	1	TGCP	TGCP_ON	DI	TGCP ON	TGCP ligado	TGCP	GTW	S	P		Y	Y
0	P44	1	TGCP	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	TGCP	GTW	S	N		Y	Y
0	P44	1	TGCP	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	TGCP	GTW	S	P			Y
0	P44	1	TGCP	ON_GAS	DI	GT Fuel Gas Selected	TG - Seleção Combustível - Gás	TGCP	GTW	S	P			Y
C	P44	1	TGCP	ON_LIQ	DI	GT Fuel Liquid Selected	TG Seleção Combustível líquido - Gás	TGCP	GTW	S	P			Y
C	P44	1	TGCP	TGCP_OFF			Unidade parar	TGCP	GTW	S	P			Y
0	P44	1		74UAM			Alarme Mau Funcionamento (Mau Funcionamento=0)	TGCP	GTW	S	N		Y	Y
0	P44	1		77V_2			Saída de Tensão (V) (Mbus)	TGCP	GTW	S			Y	Y
0	P44	1		77W_2			Potěncia Ativa (W) (Mbus)	TGCP	GTW	S			Y	Y
0	P44	1		77VAR_2			Potěncia Reativa (W) (Mbus)	TGCP	GTW	S			Y	Y
0	P44	1	TGCP	77F_2			Frequência (Hz) (Mbus)	TGCP	GTW	S			Y	Y
0	P44	1	TGCP	771	AI	TG Air Temperature	TG Ar Temperatura	TGCP	GTW	S			ĺ	Y
	P64	,	TIGCP											
U	P94	1	TOUR								l		l	

									PMS : Power Management System GTM : Gateway VSD : Avariable Speed Urive III : Intelligent Relay MMR : Multifaction Microprocessed Relay MGC : Turbine Microprocessed III : Intelligent Control III : Int	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
А	P43	1001	TGCP	33L	DI	Control Mode Local (3CMLX)	Controle - Modo Local (3CMLX)	TGCP	PMS	w	Р	γ		Y
0	P43	1001	TGCP	33R	DI	Control Mode Remote (3CMRX)	Controle - Modo Local (3CMRX)	TGCP	PMS	w	P	Υ		Y
0	P43	1001	TGCP	SYN_AUTO	DI	Synchronizing in Auto (3ASYNX)	Sincronização em Modo Automático (3ASYNX)	TGCP	PMS	W	Р	Y		Y
0	P43	1001	TGCP	SYN_OFF	DI	Synchronizing in OFF (3OSTYNX)	Sincronização Desligada (3OSTYNX)	TGCP	PMS	w	P	Υ		Y
0	P43	1001	TGCP	SYN_MAN	DI	Synchronizing in Manual (3MSYINX)	Sincronização em Modo Manual (3MSYINX)	TGCP TGCP	PMS PMS	w	P	Y		Y
0	P43 P43	1001 1001	TGCP TGCP	DROOP ISO	DI	Operation Mode Droop (3DROOPX) Operation Mode Isochronous (3ISOCX)	Modo de Operação Droop (3DROOPX)  Modo de Operação Isócrono(3ISOCX)	TGCP	PMS PMS	w	P P	v v		v v
0	P43	1001	TGCP	CB_52A	DI .	Main CB Open	Disjuntor Principal Aberto	TGCP	PMS	w	P	· v		Y
0	P43	1001	TGCP	CB_52B	DI	Main CB Closed	Disjuntor Principal Fechado	TGCP	PMS	w	P	Y		v v
0	P43	1001	TGCP	CB_69AV	DI	Main CB Available (3GNMCBA)	Disjuntor Principal Disponível (3GNMCBA)	TGCP	PMS	W	P	Υ		Y
0	P43	1001	TGCP	CB_69NAV	DI	Main CB Not Available (74GNMCB)	Disjuntor Principal Não Disponível (74GNMCB)	TGCP	PMS	W	Р	Υ		Y
0	P43	1001	TGCP	74SP_IP	DI	Stop Sequence in Progress (3STPX)	Sequência de Parada em progresso (3STPX)	TGCP	PMS	W	Р	Y		Y
0	P43	1001	TGCP	69SY	DI	Unit Ready To Synchronize (4SYNC)	Unidade Pranta para Sincronização (4SYNC)	TGCP	PMS	w	Р	Y		Y
0	P43	1001	TGCP	69IDLE	DI	Unit Held at Synch. IDLE (4SHI)	Unidade Sincronizada_ disponível (4SHI)	TGCP	PMS	w	P	Υ		Y
0	P43	1001	TGCP	42LOAD	DI	Unit Loaded (4LOAD)	Unidade Carregada (4LOAD)	TGCP	PMS	w	Р	Y		Y
0	P43	1001	TGCP	42B	DI	GT Starting (To PMS) (3GTS)	TG - Iniciando (Para PMS)(3GTS)	TGCP	PMS	w	P	Υ		Y
0	P43	1001	TGCP	69ST	DI	GT Starting Available (To PMS) (3GTSA)	TG - Partida Disponível (Para PMS)(3GTCS)	TGCP	PMS	w	P	Υ		Y
0	P43	1001	TGCP	GT_AL	DI	GT Common Alarm (To PMS) (3GTCA)	TG - Alarme Comum (Para PMS)(3GTCA)	TGCP	PMS	w	Р	Y		Y
0	P43	1001	TGCP	GT_TRIP	DI	GT Common Shutdown (To PMS) (3GTCS)	TG - Desligamento Comum (Para PMS)(3GTCS)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	SP_WDI01	DI	Spare Wired DI 01	Reservo DI 01	TGCP	PMS	w	Р	Y		
0	P43	1001	TGCP	SP_WDI02	DI	Spare Wired DI 02	Reservo DI 02	TGCP	PMS	w	Р	Y		
0	P43	1001	TGCP	SP_WDI03	DI	Spare Wired DI 03	Reserva DI 03	TGCP	PMS	w	Р -	ν		
0	P43	1001	TGCP	SP_WDI04	DI	Spare Wired DI 04	Reservo DI 04	TGCP	PMS	w	Р	Y		
0	P43	1001	TGCP	SP_WDI05	DI	Spare Wired DI 05	Reserva DI 05	TGCP	PMS PMS	w	Р -	ν		
0	P43	1001	TGCP	SP_WDI06	DI	Spare Wired DI 06	Reserva DI 06	TGCP TGCP	PMS PMS	w	P	Y		
0	P43	1001	TGCP	SP_WDI07	DI	Spare Wired DI 07	Reserva DI 07			w	, P	Y		
0	P43	1001	TGCP	SP_WDI08	DI	Spare Wired DI 08	Reserva DI 08	TGCP TGCP	PMS PMS	w	P	Y		
0	P43	1001	TGCP	SP_WDI09	DI	Spare Wired DI 09	Reserva DI 09	PMS	TGCP	w	P P	4		v
0	P43 P43	1001 1001	TGCP TGCP	42_SYN 42_ST	DO DO	GT Remote Sychronizing Request (From PMS) (3SYNC) GT Remote Start Request (from PMS) (3RSTA)	TG - Requisição Sincronização Remota (Do PMS)(3SYNC) TG - Requisição Partida Remota (Do PMS)(3RSTA)	PMS	TGCP	w	P			Y V
0	P43	1001	TGCP		DO.	Droop Mode Command (From PMS) (3REOOPX)	Comando Modo Droop (Do PMS)(3REOOPX)	PMS	TGCP	w	P			· Y
0	P43	1001	TGCP		DO	(sochronous Mode Command (From PMS) (3ISOCX)	Comando Modo Isócrano (Do PMS)(3ISOCX)	PMS	TGCP	w	Р			Y
0	P43	1001	TGCP	V_INC	DO	Voltage raise Order (pulse-width modulation) - Load Sharing and Remote Synchro	Comando aumento de tensão (PWM) - Balanço de Carga e Sincronização Remota	PMS	TGCP	Z	P			1
0	P43	1001	TGCP	V_DEC	DO	Voltage lower Order (pulse-width modulation) - Load Sharing and Remate Synchro	Comando redução de tensão (PWM) - Balanço de Carga e Sincronização Remota	PMS	TGCP	Z	Р			1
0	P43	1001	TGCP	74PMS_FT	DO	PMS Unit Alarm Malfunction (74RALM)	Mau funcionamento Unidade Alarme PMS (74RALM)	PMS	TGCP	w	P			1
0	P43	1001	TGCP	F_INC	DO	Frequency raise Order (pulse-width modulation) - Load Sharing and Remote Synchro	Comando aumento de frequência (PWM) - Balanço de Carga e Sincronização Remota	PMS PMS	TGCP TGCP	Z 7	P			1
0	P43	1001	TGCP	F_DEC 54DB	00	Frequency lower Order (pulse-width modulation) - Load Sharing and Remote Synchro	Comando redução de frequência (PWM) - Balanço de Carga e Sincronização Remota	PMS PMS	TGCP	w w	, r			1
0	P43	1001	TGCP			Dead Bus Status (From PMS) (54DB)	Status Barra Morta (Do PMS)(54DB)	PMS PMS	TGCP	w	, r			1
0	P43	1001	TGCP TGCP	42_AVRFF 42_SP	DO DO	Start Field Forcing Process (from PMS) (3AVRFF)	Iniciar Field Forcing (do PMS) (3AVRFF)	PMS PMS	TGCP	w	, r			į I
0	P43	1001		42_31	00	GT Remote Stop Request (SRSTO)	TG - Solicitação Remota de Parada (SRSTO)	PMS	TGCP	w	,			
0	P43 P43	1001 1001	TGCP TGCP	CLK SP WDO01	00	Clock Synchronization Pulse (From PMS) (13CLOCK)	Pulso de sincronização do Relágio (Do PMS)(13CLOCK)	PMS	TGCP	w	P			1
0	P43	1001	TGCP	SP_WD001 SP_WD002	00	Spare Wired DO 01 Spare Wired DO 02	Reserva DO 01 Reserva DO 02	PMS	TGCP	w				1
0	P43	1001	TGCP	SP_WD002 SP_WD003	00		Reserva DO 02 Reserva DO 03	PMS	TGCP	w	P			1
0	P43	1001	TGCP	5P_WD003 77V_1	AI.	Spare Wired DO 03 Output Voltage(V) (Wired)	Reserva DO US Saída de Tensão (V) (Cabo)	TGCP	PMS	w	· .			Y
0	P43	1001	TGCP	77V_1 77F 1	Al.	Frequency (Hz) (Wired)	Frequência (Hz) (Cabo)	TGCP	PMS	w	l			· v
0	P43	1001	TGCP	77F_1 77W_1	Al	Active Power (W) (Wired)	Potěncia Ativa (W) (Cabo)	TGCP	PMS	w	l			· v
0	P43	1001	TGCP	77VAR_1	AI	Reactive Power (Var) (Wired)	Potěncia Reativa (W) (Cabo)	TGCP	PMS	w	l			Y
0	P43	1001	TGCP	77PWBG	AI	Generator Power Budget (W) (Spinning Reserve)	Gerador - Power Budget (W)	TGCP	PMS	w	l			Y
0	P43	1001	TGCP	SP_WAI01	AI	Spare Wired AI 01	Reserva Al 01	TGCP	PMS	w	l			1
0	P43	1001	TGCP	SP_WAI02	Al	Spare Wired AI 02	Reserva Al 02	TGCP	PMS	W	l			1
0	P43	1001	TGCP	65_LSR	AO	Load Share Setpoint from PMS (65FCLSSP)	Setpoint do PMS - Load Share - (65FCLSSP)	PMS	TGCP	w	l			Y
0	P43	1001	TGCP	77_MWSP	Al	MWATT SETPOINT to PMS (54MWSPC)	Setpoint MWATT para PMS(54MWSPC)	TGCP	PMS	w	l			Y
0	P43	1001	TGCP					l			l			1
				•									l.	

PMS : Power Management System GTW : Gateway

								1	VSD Varioble Speed Drive IR: Intelligent Relay MeM: Hulliforction Hicroprocessed TOCP: Turbine Generator Control Ponel Hell: Human-Hochine Interface. CSS: Control & Sofley System SNKC: Systemorber UCP: Unit Control Pene	I=IEC61850 W=widred M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P38	2	13.8 kV Incomer from TG	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	w	N	γ		Y
0	P38	2	13.8 kV Incomer from TG	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	1	P			Y
0	P38	2	13.8 kV Incomer from TG	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P	1		Y
C	P38	2	13.8 kV Incomer from TG	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y		Y
С	P38	2	13.8 kV Incomer from TG	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	Р	Υ		Y
С	P38	2	13.8 kV Incomer from TG	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	Y		Y
0	P38	2	13.8 kV Incomer from TG	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y	Y	Y
0	P38	2	13.8 kV Incomer from TG	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	Р	Y	Y	Y
C	P38	2	13.8 kV Incomer from TG	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P	Y	Y	Y
0	P38	2	13.8 kV Incomer from TG	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW GTW		P .			Y
0	P38	2	13.8 kV Incomer from TG	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR MMR	GTW		P .	Y		Y
0	P38	2	13.8 kV Incomer from TG 13.8 kV Incomer from TG	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GIW GTW		P .	Y		Y
-	P38	2		51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW		P P	, T		Y V
C	P38 P38	2	13.8 kV Incomer from TG 13.8 kV Incomer from TG	67	DI	Protection 67 - AC Direcional Overcurrent Protection 68 - Blocking relay	Proteção 67 - Sobrecorrente Direcional AC Proteção 68 - Relé de bloqueio	MMR	GTW		,	,		, v
6	P38	2	13.8 kV Incomer from TG	00	DI	Protection 66 - Blocking relay Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bioqueio Proteção 86 - Relé de Bioqueio	MMR	GTW		,	,		, v
	P38	2	13.8 kV Incomer from TG	77VRS	AI.	Voltage Phases RS	Proteção ao - Reie de Bioqueio Tensão Fase RS	MMR	GTW		· ·	l '		į ,
^	P38	2	13.8 kV Incomer from TG	77VST	AI	Voltage Phases KS Voltage Phases ST	Tensão Fose ST	MMR	GTW			1		, ,
	P38	2	13.8 kV Incomer from TG	77VTR	AI.	Voltage Phases TR	Tensão Fose TR	MMR	GTW	i		1		l v
0	P38	2	13.8 kV Incomer from TG	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	i		1		l v
Δ.	P38	2	13.8 kV Incomer from TG	77CR	Al	Current Phase R (A)	Corrente Fose R (A)	MMR	GTW	i		1		Y
A	P38	2	13.8 kV Incomer from TG	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1		1		Y
A	P38	2	13.8 kV Incomer from TG	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1		1		Y
0	P38	2	13.8 kV Incomer from TG	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1		1		Y
0	P38	2	13.8 kV Incomer from TG	77VA	Al	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	1		1		Y
0	P38	2	13.8 kV Incomer from TG	77PF	Al	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	1		1		Y
0	P38	2	13.8 kV Incomer from TG											

Section   Property										GTW: Galeway  VSD Avarioble Speed Orive  RE: Intelligent Relay  MMM: Rhullfornicoln Microprocessed  Relay  TGCP: Turbine Generator Control  1891: Harmon-Mochine Interface  CSS: Control Scledy System  UCP: Unit Control Pone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative Pulse PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
C	Rev			Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
Second   Page   3   33   33 for   Control Browler A   53,4,7   5   5   5   5   5   5   5   5   5	0	P39	3	13.8 kV Tie Circuit Breaker A	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)			W	N	Υ		Y
Page   1	C		3			DI	Circuit Breaker Closed Status (IEC)				1	P	Y		Y
C	C		3	13.8 kV Tie Circuit Breaker A		DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)			- 1	P	Y		Y
C	0	P39	3	13.8 kV Tie Circuit Breaker A	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	- 1	P	Y	Y	Y
P3	C	P39	3	13.8 kV Tie Circuit Breaker A	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR		1	P	Y	Y	Y
P3	C	P39	3	13.8 kV Tie Circuit Breaker A		DI	Protection 50BF - Breaker Failure		MMR		1	P	Y		Y
C   P39   3   3.8 M Te Cross Beader A   P5   D   Overschool Re-Lock Out Relay   P   V   V   P   V   V   P   V   V   P   V	A		3	13.8 kV Tie Circuit Breaker A	69AV_2	DI	Circuit Breaker Available (Ready) (IEC)				1	P	Y	Y	Y
Display   Standard	0		3		67	DI	Protection 67 - AC Directonal Overcurrent				- 1	P	Y		Y
Description	C	P39	3	13.8 kV Tie Circuit Breaker A	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio			1	P	Y		Y
P39   3   33.8 M Te Crout Breeker A   77CL, A   A   Current Place RM - Baus A   Current Florac RM - B	0		3	13.8 kV Tie Circuit Breaker A		DI	Circuit Breaker Extracted				1	P	Y		Y
A P39 3 33 8 W Te Crout Breeder A 77CE, A N Current Place R M. Bus A Current Flace R M. Bus A Current Place S M. Bus A Cu	0	P39	3	13.8 kV Tie Circuit Breaker A		DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste			- 1	P	Y		Y
A P39 3 3138 W Te Crout Breaker A 77CL, A AI Current Place S (N - Bus A Corrente Face S (N - Burnamento A MMR GTW I S N - Crout Breaker A 77CL, A AI Current Place T (N - Bus A Corrente Face S (N - Burnamento A MMR GTW I S N - Crout Breaker A 770CL, A AI Voltage Places S (N - Bus A S N - Crout Breaker A 50CL, A S N - Cr	0		3			DI	Circuit Breaker Connected				- 1	P	Y		Y
A P39 3 3.38 MT E Crout Breeder A 770KS, A N Current Place FM - Bus A Current Flore FM - Bus A Current Flore FM - Bus A Flored FM - Bus A	A		3			Al	Current Phase R (A) - Bus A				- 1				Y
A P39 3 33 8 W Te Cruzi Bresher A 770%5_A N Voltage Places EST M - Black A 120%5 Feed FST M - Black A	A	P39	3	13.8 kV Tie Circuit Breaker A		Al	Current Phase S (A) - Bus A	Corrente Fase S (A) - Barramento A	MMR		1				Y
A P39 3 33.8 M Te Crout Breslete A 77/5T, A N Voltage Places TS (N - Blus A Tendo Face TS (N - Borramento A PMR GTW   1	A		3	13.8 kV Tie Circuit Breaker A		Al	Current Phase T (A) - Bus A				1				Y
A P39 3 33.8 W Te Crout Breaker A 77VTR, A AI Voltage Places TR M - Bus A Tendo Fase TR (M - Barramento A MMR GTW I V Part Breaker A 77VTR, A AI Notine Power MV Poderico Alton (W) Poderico Alton (W) PMR GTW I V Part Breaker A 77VTR AI Riccite Power MV Poderico Alton (W) PMR GTW I V Part Breaker A 77VTR AI Riccite Power MV Poderico Alton (W) PMR GTW I V Part Breaker A 77VTR AI AI Apparent Power MV Poderico Agorette MV PMR GTW I V Part Breaker A 77VTR AI Power Forotor (P) PMR GTW I V Part Breaker A 77VTR AI Power Forotor (P) PMR GTW I V Part Breaker A 77VTR AI Power Forotor (P) PMR GTW I V PART BREAKER AI V PART BREAKE	A	P39	3	13.8 kV Tie Circuit Breaker A		Al	Voltage Phases RS (V) - Bus A				- 1				Y
C P39 3 13.8 M Te Crout Breeder A 77W A Active Power (Var) Poderic Dallow (V) Poderic Dal	A		3	13.8 kV Tie Circuit Breaker A		AI	Voltage Phases ST (V) - Bus A				1				Y
C P39 3 33.8 M Te Crout Bresler A 77MR AI Reactive Power Norl Potencia Reactive Doorl P199 3 313.8 M Te Crout Bresler A 77M AI Apparent Power Norl Posterio Apparent Power Norl Power	A		3	13.8 kV Tie Circuit Breaker A	77VTR_A	AI					1				Y
C P39 3 3.33 kV Te Crout Breaker A 77VA Al Apparent Power (VA) Potence Apparente (VA) Poten	C	P39	3	13.8 kV Tie Circuit Breaker A		Al		Potěncia Ativa (W)			1			Y	Y
C P39 3 33.8 M Te Crout Breaker A 77PF Al Power Factor PP1 Factor Query Fraguency (NE) Fraguency	C	P39	3	13.8 kV Tie Circuit Breaker A		Al	Reactive Power (Var)	Potência Reativa (Var)			1		l	ĺ	Y
D P39 3 33.8 M Te Crout Bresider A 77F Al Frequency M2 Frequencia M 1 Frequency M2 Frequencia M 1 Frequency M2 Frequency M	C		3			AI			MMR		1				Y
A P39 3 33.8 kV Te Circuit Breoker A 33L DI Local/Remote selection [1 = Local/0 = Remote) Seleção Local/Remoto 1 = Local/0 = Remoto   MMR GTW   P V V V V C P39 3 33.8 kV Te Circuit Breoker A 52C_2 DO Circuit Breoker Clasing Order (EC) Digintor - Ordem Abril (EC) GTW MMR   P P V V V V V V V V V V V V V V V V V	C		3		77PF	AI	Power Factor (PF)	Fator de Patência (FP)	MMR		1				Y
C P39 3 33.8 kV Te Circuit Breaker A 52C_2 DO Circuit Breaker Closing Order IECT Disjuntor - Ordem Fechar IECT GTW MMR I P V C P39 3 33.8 kV Te Circuit Breaker A 52C_2 DO Circuit Breaker Closing Order IECT Disjuntor - Ordem Abort IECT GTW MMR I P V	D		3		77F	AI					1				Y
C P39 3 13.8 kV Tie Circuit Breoker A 520_2 00 Circuit Breoker Opening Order (IEC) Diguntor - Ordem Abrir (IEC) GTW MMR I P	A		3		33L	DI			MMR		- 1	P	Y	Y	Y
	C		3								1	P			Y
0 P39 3 313.6 W Tec Crouf Breaker A	C	P39	3	13.8 kV Tie Circuit Breaker A	520_2	DO	Circuit Breaker Opening Order (IEC)	Disjuntor - Ordem Abrir (IEC)	GTW	MMR	1	P			Y
	0	P39	3	13.8 kV Tie Circuit Breaker A											

								١	PPS Flower Monogement System GTW Goteway USD Variotile Speed Drive R: Intelligent MRR. Multifaction Microprocessed MRR. Multifaction Microprocessed Tocing Turbune Sementor Control Panel HMII - Human-Modunie Interface. CSS : Control & Sodley System UCP : Limit Control Pane	I=IEC61850 W=w/red M=Modbus TCP S=Modbus FS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Haintaine NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
C	P39	1003	13.8 kV Tie Circuit Breaker A	52B_1	DI	Circuit Breaker Closed Status (Wired)	Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y	Y	Y
C	P39	1003		69AV_1			Disjuntor Disponível (Pronto) (Cabo)	MMR	PMS	W	P	Y	Y	Y
C	P39	1003		52A_1			Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	Р	Y	Y	Y
0	P39	1003		52C_1			Disjuntor - Ordem Fechar (Cabo)	SYNC	MMR	Z	Р			Y
0	P39	1003		520_1			Disjuntor - Ordem Abrir (Cabo)	PMS	MMR	W	P			Y
A	P39	1003		VT_FLT_A			Tensão Barramento A - Falha de Proteção VT	MMR	PMS	Z	N	Y		Y
A	P39	1003		VT_FLT_B			Tensão Barramento B - Falha de Proteção VT	MMR	PMS	Z	N	Y		Y
0	P39	1003		77VR_A			Tensão Barramento A - Fase R (13.8kV para 120V)	Busbar	SYNC	Z				
0	P39	1003		77VS_A			Tensão Barramento A - Fase S (13.8kV para 120V)	Busbar	SYNC	Z				
0	P39	1003	13.8 kV Tie Circuit Breaker A	77VT_A	Al	Voltage Bus A phase T (13.8kV to 120V)	Tensão Barramento A - Fase T (13.8kV para 120V)	Busbar	SYNC	Z				
_	P39	1003	13.8 kV Tie Circuit Breaker A											

PMS and Topside Electrical Automation System - I/O List I-LI-3010.93-5140-797-GC1-001.xlsm

								,	PMS: Power Management System GTM: Gateway VSD Variable Speed Orive RED, Resident Reby Rell, Rell, Resident Reby RGCP: Lintelligent Reby RGCP: Lintelligent Reley RGCP: Lintelligent Repeated Control Reby RGCP: Lintelligent Repeated Control Rell, Human-Hachine Interface CSS: Control & Solety System SYNC: Systemonizer UCP: Lint Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	V= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
Α	P47	4	13.8 kV Tie Circuit Breaker B	77VRS_B	Al	Voltage Phases RS (V) - Bus B	Tensão Fase RS (V) - Barramento B	MMR	GTW	1				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77VST_B	Al	Voltage Phases ST (V) - Bus B	Tensão Fase ST (V) - Barramento B	MMR	GTW	1				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77VTR_B	AI	Voltage Phases TR (V) - Bus B	Tensão Fase TR (VI - Barramento B	MMR	GTW	1				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77CR_B	Al	Current Phase R (A) - Bus B	Corrente Fase R (A) - Barramento B	MMR	GTW	1				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77CS_B	Al	Current Phase S (A) - Bus B	Corrente Fase S (A) - Barramento B	MMR	GTW	1				Y
Α	P47	4	13.8 kV Tie Circuit Breaker B	77CT_B	Al	Current Phase T (A) - Bus B	Corrente Fase T (A) - Barramento B	MMR	GTW	1				Y
D	P47	4	13.8 kV Tie Circuit Breaker B	77F	Al	Frequency (Hz)	Frequência (Hz)	MMR	GTW	1				Y
c	P47	4	13.8 kV Tie Circuit Breaker B	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y	Y	Y
C	P47	4	13.8 kV Tie Circuit Breaker B	67	DI	Protection 67 - AC Directonal Overcurrent	Proteção 67 - Sobrecorrente Direcional AC	MMR	GTW	1	P	Y	Y	Y
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_52B	DI	IS Limiter : Closing release circuit breaker	IS Limiter: Fechamento disjuntor liberado	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_52A	DI	IS Limiter : Tripping Circuit breaker	IS Limiter: Trip disjuntor	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_DOOR	DI	IS Limiter: HV door contact ( 1=Closed)	IS Limiter: Porta - Alta Tensão - Status (1 = Fechado)	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_TRIP	DI	IS Limiter : Limiter tripped	IS Limiter: Trip limitador	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_UNAV	DI	IS Limiter : Limiter not ready for switching	IS Limiter: Limitador não pronto para operação	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_MS_FLT	DI	IS Limiter : Mains supply voltage missing	IS Limiter: Fonte principal de tensão ausente	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_AS_FLT	DI	IS Limiter : Auxiliary supply voltage missing	IS Limiter: Fonte auxiliar de tensão ausente	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_BLKD	DI	IS Limiter : Limiter blocked	IS Limiter: Limitador bloqueado	MMR	GTW	1				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_75WD	DI	IS Limiter: Limiter truck disconnected position	IS Limiter: Limitador desconectado	MMR	GTW	1	1			
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_75IN	DI	IS Limiter: Truck service position	IS Limiter: Posição de serviço	MMR	GTW	1	1			1
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_S_OFF	DI	IS Limiter: Supply voltage missing	IS Limiter: Fonte de tensão ausente	MMR	GTW	1	l	İ		
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_S_ON	DI	IS Limiter : Supply voltage present	IS Limiter: Fonte de tensão presente	MMR	GTW	1	1			
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_FAN_SP1	DI	IS Limiter : Fan alarm step 1	IS Limiter: Alarme Ventilador - Passo 1	MMR	GTW	1	1			
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_FAN_SP2	DI	IS Limiter : Fan alarm step 2	IS Limiter: Alarme Ventilador - Passo 2	MMR	GTW	1	l	İ		
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_SP_WDI01	DI	Spore 1	Reservo 1	MMR	GTW	1	1			
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_SP_WDI02	DI	Spore 2	Reservo Z	MMR	GTW	1	1			
C	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_TRIP_W	DI	IS Limiter : Limiter tripped	IS Limiter: Trip limitador	MMR	GTW	w	1			1
C	P47	4	13.8 kV Tie Circuit Breaker B	ISLIM_74UAM	DI	IS Limiter : Unit Alarm Malfunction	IS Limiter: Mau funcionamento Unidade Alarme	MMR	GTW	w	l	İ		
		1									1			
0	P47	4	13.8 kV Tie Circuit Breaker B							1	l			

									PMS Flower Management System GTW Gateway VSD Norriche Speed Drive R: Intelligent September Management R: Intelligent September Management R: Intelligent September Management R: Intelligent September Management Penel Hell: Human-Mochanie Intelligent Hell: Human-Mochanie Intelligent Legal System USP: Linit Control Revie USP: Linit Control Revie	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NH=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with RMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P47	1004	13.8 kV Tie Circuit Breaker B	77VR_B	Al	Voltage Bus B phase R (13.8kV to 120V)	Tensão Barramento B - Fase R (13.8kV para 120V)	Busbar	SYNC	Z				
0	P47	1004	13.8 kV Tie Circuit Breaker B	77VS_B		Voltage Bus B phase S (13.8kV to 120V)	Tensão Barramento B - Fase S (13.8kV para 120V)	Busbar	SYNC	Z				
0	P47	1004	13.8 kV Tie Circuit Breaker B	77VT_B			Tensão Barramento B - Fase T (13.8kV para 120V)	Busbar	SYNC	Z				
€	P47	1004	13.8 kV Tie Circuit Breaker B	ISLIM_TRIP_W		IS Limiter - Limiter tripped	IS Limiter. Trip limitador	MMR	GTW	Wd				
€	P47	1004	13.8 kV Tie Circuit Breaker B	ISLIM_74UAM	Did	IS Limiter - Unit Alarm Malfunction-	15 Limiter: Mau funcionamento Unidade Alarme-	MMR	<del>stw</del>	Wd				
0	P47	1004	13.8 kV Tie Circuit Breaker B											

									PMS - Power Monogenerat System GMS (Galley) VSD Variable Speed Drive III: Intelligent Relay WMM: Ruthlifanction Microprocessed Related Broom Control Fone Hell Human-Machine Interface CSS: Control & Softey System SMC: System Care LOP: Unit Control Fane UCP: Unit Control Fane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NY=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P15	5	13.8kV Motor Gas Compressor	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N			Y
A	P15	5	13.8kV Motor Gas Compressor	420I_LS	DO	Load shedding activated (info)	Descarte de Carga Ativado	GTW	MMR	1	P	Y	Y	Y
0	P15	5	13.8kV Motor Gas Compressor	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	Y	1	Y
0	P15	5	13.8kV Motor Gas Compressor	TRIP_2	DI	Circuit Breaker Tripped (IEC)	Disjuntor Trip (IEC)	MMR	GTW	1	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	42A_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	1	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	42B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	1	P	Y		Y
В	P15	5	13.8kV Motor Gas Compressor	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P15	5	13.8kV Motor Gas Compressor	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
A	P15	5	13.8kV Motor Gas Compressor	69R_2	DI	Circuit Breaker ready (IEC)	Disjuntor Pronto (IEC)	MMR	GTW	1	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y	Y	Y
C	P15	5	13.8kV Motor Gas Compressor	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	1	P	Y	Y	Y
C	P15	5	13.8kV Motor Gas Compressor	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	1	P	Y	Y	Y
0	P15	5	13.8kV Motor Gas Compressor	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	1	Р	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	Р	Y		Y
C	P15	5	13.8kV Motor Gas Compressor	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	1	Р	Y		Y
C	P15	5	13.8kV Motor Gas Compressor	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	!	P	Υ		Υ
0	P15	5	13.8kV Motor Gas Compressor	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW		P .	Υ		Y
0	P15	5	13.8kV Motor Gas Compressor	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW		P .	Υ		Y
0	P15	5	13.8kV Motor Gas Compressor	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW		P .	Υ		Y
0	P15	5	13.8kV Motor Gas Compressor	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW		P .	Υ		Y
C	P15	5	13.8kV Motor Gas Compressor	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW		P .	Υ		Y
0	P15	5	13.8kV Motor Gas Compressor	87	DI	Protection 87 - Differential Protective	Proteção 87 - Proteção Diferencial	MMR	GTW	1	P	Y	1	Y
0	P15	5	13.8kV Motor Gas Compressor	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR MMR	GTW GTW	1	P	Y.	1	Y
C	P15	5	13.8kV Motor Gas Compressor	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW GTW		P		1	Y
D	P15	5	13.8kV Motor Gas Compressor	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	1	P	Y		Y V
A	P15	5	13.8kV Motor Gas Compressor	77CR	Al	Current Phase R (A)	Corrente Fase R (A)			1				Y
A	P15	5	13.8kV Motor Gas Compressor	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
A	P15	5	13.8kV Motor Gas Compressor	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
0	P15	5	13.8kV Motor Gas Compressor	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
0	P15	5	13.8kV Motor Gas Compressor	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1				Y
0	P15	5	13.8kV Motor Gas Compressor	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Y
0	P15	5	13.8kV Motor Gas Compressor	77W_2	Al	Active Power (W) (IEC)	Potěncia Ativa (W) (IEC)	MMR	GTW	1			Υ	Y
0	P15	5	13.8kV Motor Gas Compressor	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1			1	Y
0	P15	5	13.8kV Motor Gas Compressor	77VA	Al	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	1				Y
0	P15	5	13.8kV Motor Gas Compressor	77PF	Al	Power Factor (PF)	Fator de Patência (FP)	MMR	GTW	1			1	Y
0	P15	5	13.8kV Motor Gas Compressor	77TIM	Al	Motor running time (hours)	Motor - Tempo de Funcionamento (Horas)	MMR	GTW	1			1	Y
€	P15	5	13.8kV Motor Gas Compressor	5XGF	<del>Di</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	<del>GTW</del>	<del>ld</del>	P	¥		¥
1 . 1														
0	P15	5	13.8kV Motor Gas Compressor			1		1						

								,	PMS: Power Management System GTW: Gateway VSD Vortable Speed Orive VSD Vortable Speed Orive VSD Vortable Speed Orive VSD Vortable Speed Orive Reby TGCP: Turbine Generator Control Pome Pome VSD VSD VSD VSD VSD VSD VSD VSD VSD VSD	I=IEC61850 W=wired M=Modbus TC4 S=Modbus RS48 S=Modbus RS4	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P15	1005	13.8kV Motor Gas Compressor	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Υ		Y
0	P15	1005	13.8kV Motor Gas Compressor	42B_1		Circuit Breaker Closed Status (Wired)	Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y		Y
0	P15	1005	13.8kV Motor Gas Compressor	69R_1	DI	Circuit Breaker ready (Wired)	Disjuntor Pronto (Cabo)	MMR	PMS	W	P	Y		Y
0	P15	1005	13.8kV Motor Gas Compressor	TRIP_1		Circuit Breaker Tripped (Wired)	Disjuntor Trip (Cabo)	MMR	PMS	W	P	Y		Y
A	P15	1005	13.8kV Motor Gas Compressor	42C_RQ	DI	Authorization to Start Request	Autorização Requisição de Partida	MMR	GTW	W	P	γ	Y	Y
A	P15	1005	13.8kV Motor Gas Compressor	420_LS	DO	Load shedding command	Comando Descarte de Carga	PMS	MMR	W	P		Yd	Y
0	P15	1005	13.8kV Motor Gas Compressor	42C_AUTH	DO	Load start authorization (1= Start Inhibit 0=Start Authorization) - NC contact	Carga - Autorização de partida (1=Partida Inibida 0=partida Autorizada) - Contato NF	PMS	MMR	W	N		Y	Y
0	P15	1005	13.8kV Motor Gas Compressor	77W_1	AI	Active Power (W) (Wired)	Potěncia Ativa (W) (Cabo)	MMR	PMS	W				Y
0	P15	1005	13.8kV Motor Gas Compressor											

								GTW: Gateway VSD Variotible Speed Drive REV. Intelligent Reiby MMR: Fulliforcitor Microprocessed Reiby TGCP: Turbine Generator Control HMI: Human-Hochine Interface. CSS: Control is Solely System VNC: Sychnonizer UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
P16	6	13.8kV Motor Pump	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
P16	6	13.8kV Motor Pump	420I_LS	DO	Load shedding activated (info)	Descarte de Carga Ativado	GTW	MMR	1	P	Y	Y	Y
P16	6	13.8kV Motor Pump	42A_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	1	P	Y		Y
P16	6	13.8kV Motor Pump	42B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	1	P	Y		Y
P16	6	13.8kV Motor Pump	69R_2	DI	Circuit Breaker ready (IEC)	Disjuntor Pronto (IEC)	MMR	GTW	1	P	Y		Y
P16	6	13.8kV Motor Pump	TRIP_2	DI	Circuit Breaker Tripped (IEC)	Disjuntor Trip (IEC)	MMR	GTW	1	P	Y		Y
P16	6	13.8kV Motor Pump	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	Y		Y
P16	6	13.8kV Motor Pump	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Υ	Y	Y
P16	6	13.8kV Motor Pump	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	1	P	Υ		Y
P16	6	13.8kV Motor Pump	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	!	P	Υ		Y
P16	6	13.8kV Motor Pump	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW		P			Y
P16	6	13.8kV Motor Pump	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	!	P			Y
P16	6	13.8kV Motor Pump	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR MMR	GTW GTW	!	P	v v		Y
P16	6	13.8kV Motor Pump	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal			!	P	Y		Y
P16	6	13.8kV Motor Pump	46	DI DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR MMR	GTW GTW		P	Y		Y
P16	6	13.8kV Motor Pump	48_IS	DI DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW		P D	Y V		Y V
P16	6	13.8kV Motor Pump	49	DI DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW		P D	Y V		Y V
P16	6	13.8kV Motor Pump	491	DI DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW		P D	Y V		Y V
P16 P16	6	13.8kV Motor Pump 13.8kV Motor Pump	68	DI DI	Protection 68 - Blocking relay Protection 50 - Instantaneous Overcurrent	Proteção 68 - Relé de bloqueio Proteção 50 - Sobrecorrente Instantânea	MMR	GTW		P P	Y V		v v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	50 50RF	Di	Protection 5U - Instantaneous Overcurrent Protection 50BF - Breaker Failure	Proteção 50 - Sobrecorrente Instantanea Proteção 50BF - Falha no Disjuntor	MMR	GTW		,	v v		v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	O.E	Di	Protection SUBF - Breaker Failure Protection 86 - Lock Out Relay	Proteção SUBF - Faina no Disjuntor Proteção 86 - Relé de Bloqueio	MMR	GTW		,	· ·		v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	07	Di	Protection 86 - LOCK Out Relay Protection 87 - Differential Protective	Proteção 86 - Reie de Bioqueio Proteção 87 - Proteção Diferencial	MMR	GTW		,	· ·		v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	87 50GS	Di	Protection 87 - Differential Protective Protection 50GS - Earth Fault current	Proteção 50 - Proteção Diferencial Proteção 50GS - Fuga a Terra	MMR	GTW		,	· ·		, v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	50G5 51LR	Di	Protection SUGS - Earth Fault current Protection SILR - Mechanical Jam	Proteção SUGS - Fuga a Terra Proteção SUR - Rotar Travado	MMR	GTW		,	v v		, v
P16 P16	0	13.8kV Motor Pump 13.8kV Motor Pump	DILK	Di	Protection STLK - Mechanical Jam Earth Switch Closed	Proteção SILK - Kotar Travado Chave de Terra fechado	MMR	GTW		,	v v		, v
	0		93				MMR	GTW		-	'		, v
P16	6	13.8kV Motor Pump	77CR	PAI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW					· ·
P16	6	13.8kV Motor Pump	77CS 77CT	PAI	Current Phase S (A)	Corrente Fose S (A)	MMR	GTW					T U
P16	6	13.8kV Motor Pump		PAI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW					T U
P16	6	13.8kV Motor Pump	77VRS 77VST	PAI	Voltage Phases RS	Tensão Fase RS	MMR	GTW					T U
P16	6	13.8kV Motor Pump		PAI	Voltage Phases ST	Tensão Fase ST	MMR	GTW					7
P16 P16	6	13.8kV Motor Pump 13.8kV Motor Pump	77VTR 77W_2	AI	Voltage Phases TR Active Power (W) (IEC)	Tensão Fase TR Potência Ativa (W) (IEC)	MMR	GTW				v	v v
P16	6	13.8kV Motor Pump	77W_2 77VAR	AI	Reactive Power (Vgr)	Potencia Adva (W) (IEC) Potencia Reativa (Var)	MMR	GTW				'	v
P16	6	13.8kV Motor Pump	77VA	AI	Apparent Power (VA)	Potencia Rediiva (var) Potencia Aparente (VA)	MMR	GTW					v
P16	6	13.8kV Motor Pump	77PF	AI	Power Factor (PF)	Fator de Potência (FPI	MMR	GTW	l i				· v
	6			AL.					1				<u> </u>
	-		ENCE	L.			MMR	GTW	14	P	¥		÷
1.10		and the same of th		Ī	The second secon	· consistence of the contract			_				
P16	6	13.8kV Motor Pump		1									
P16 P16	6	13.8kV Motor Pump 13.8kV Motor Pump 13.8kV Motor Pump		-7.7TIM SWGF			3						



								,	PMS: Power Monogement System GTW: Gameway VSD: November Speed Drive VSD: November Speed Drive VSD: November Speed Drive Will - Nutlification Milk (responsessed Reby) TGCP: Turbine Seventor Control Panel 1611: Hard VSD: Hard Monogement Sold Signature Sold Interface. CSS: CSS: CSS: Speed Point Speed SOM: Systemoraer UCP: Unit Control Panel	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P16	1006	13.8kV Motor Pump	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Υ		Y
0	P16	1006		42B_1			Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y		Y
A	P16	1006		42C_RQ			Autorização Requisição de Partida	MMR	GTW	W	P	Y	Y	Y
A	P16	1006		420_LS			Comando Descarte de Carga	PMS	MMR	W	P		Yd	Y
0	P16	1006		42C_AUTH			Carga - Autorização de partida (1=Partida Inibida 0=partida Autorizada) - Contato NF	PMS	MMR	W	N		Y	Y
0	P16	1006		77W_1			Potěncia Ativa (W) (Cabo)	MMR	PMS	W			1	Y
0	P16	1006	13.8kV Motor Pump	TRIP_1			Disjuntor Trip (Cabo)	MMR	PMS	W	P	Y	1	Y
A	P16	1006	13.8kV Motor Pump	69R_1	DI	Circuit Breaker ready (Wired)	Disjuntor Pronto (Cobo)	MMR	PMS	W	P	Y	1	Y
0	P16	1006	13.8kV Motor Pump											

								,	PMS: Power Monagement System GRIVI - Galeway GRIVI - Galeway R. Intelligent Reby R. Intelligent Reby MRI Multiformton Microprocessed Reby GRIVI - Multiformton Microprocessed Reby Reby Reby Reby Reby Reby Reby Reby	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P17	7	13.8 kV Transformer feeder	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N			Y
0	P17	7	13.8 kV Transformer feeder	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P		Y	Y
0	P17	7	13.8 kV Transformer feeder	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	1	P			Y
0	P17	7	13.8 kV Transformer feeder	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	l		Y
0	P17	7	13.8 kV Transformer feeder	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P			Y
0	P17	7	13.8 kV Transformer feeder	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P			Y
0	P17	7	13.8 kV Transformer feeder	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definida)	MMR	GTW	1	P			Y
C	P17	7	13.8 kV Transformer feeder	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	1	P	Y		Y
C	P17	7	13.8 kV Transformer feeder	87	DI	Protection 87 - Differential Protective	Proteção 87 - Proteção Diferencial	MMR	GTW	1	P			Y
C	P17	7	13.8 kV Transformer feeder	87_1	DI	Protection 87 Penc - Percent Differential	Proteção 87 - Percentual Diferencial	MMR	GTW	1	P			Y
D	P17	7	13.8 kV Transformer feeder	89	DI	Earth Switch Closed	Chove de Terra fechada	MMR	GTW	1	P	Y		Y
A	P17	7	13.8 kV Transformer feeder	77CR	Al	Current Phase R (A)	Corrente Fose R (A)	MMR	GTW	1				Y
A	P17	7	13.8 kV Transformer feeder	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
Α	P17	7	13.8 kV Transformer feeder	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
0	P17	7	13.8 kV Transformer feeder	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
0	P17	7	13.8 kV Transformer feeder	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1				Y
0	P17	7	13.8 kV Transformer feeder	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Y
0	P17	7	13.8 kV Transformer feeder	77W	ΔI	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1			v	v
0	P17	7	13.8 kV Transformer feeder	77VAR	AI	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	l i				v
0	P17	7	13.8 kV Transformer feeder	77VA	ΔI	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	l i				v
0	P17	7	13.8 kV Transformer feeder	77PF	ai	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	1	1			Y
, a	P17	7	13.8 kV Transformer feeder		DO.	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMB	l i	p	l		· v
0	P17	7	13.8 kV Transformer feeder		DO DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	, p			· v
č	P17	7	13.8 kV Transformer feeder	75WD	DI	Circuit Breaker Opening Grade	Disjuntor Extraído	MMR	GTW	1	P			Y
č	P17	7	13.8 kV Transformer feeder	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
Č	P17	7	13.8 kV Transformer feeder	75CNT	DI DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	, p			· v
0	P17	7	13.8 kV Transformer feeder	52R	DI DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	, p			· v
0	P17	7	13.8 kV Transformer feeder	52B 52A	DI DI	Circuit Breaker Closed Status Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	l i	, p	l		· v
0	P17	7	13.8 kV Transformer feeder	TRIP	DI DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	, p			· v
0	P17	7	13.8 kV Transformer feeder	69AV	DI DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	, p			· v
-	P17	2	13.8 W Transformer feeder	77TM4	L.	Motor running time (hours)	Motor Tempo de Funcionamento (Horasi	MMR	GTW	14	1			<u>.</u>
-	012	2	13.8 W Transformer feeder	ENCE	C.	Protection Ground Foult (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	14	2	l		ż
		1 -	235 NV Hariatinic record	370	ľ	i roccion dround i dus (ord)	r torcyao r aga a rema (ora)		<del></del>	1 ~	1			*
0	P17	7	13.8 kV Transformer feeder	1	1					1	1			
	1.47		and the state of t	1		L				1		1		

								,	VSD Variotie Speed Orive SSD Variotie Speed Orive Res Versies Speed Orive Res Varioties Speed Orive Res Varioties Speed Orive Res Varioties Speed Orive Res Varioties	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative Pulse PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
A	P51	8	13.8 kV Transformer feeder (Type 2)	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		
A	P51	8	13.8 kV Transformer feeder (Type 2)	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	75WD	DI	Circuit breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P	Y		Y
C	P51	8	13.8 kV Transformer feeder (Type 2)	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	Y		Y
C	P51	8	13.8 kV Transformer feeder (Type 2)	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW		P	Y	Y	Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bioqueio	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1	P	Y		Y
C	P51	8	13.8 kV Transformer feeder (Type 2)	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	1	P	Y		Y
D	P51	8	13.8 kV Transformer feeder (Type 2)	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	1	P	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	1	l		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77PF	AI	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	1	1	l		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1		Y	Υ	Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1		Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77VA	Al	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	1		Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77VRS	Al	Voltage Phases RS	Tensão Fose RS	MMR	GTW	1		Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1		Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1	1	Y		Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	1	P	Y	Y	Y
A	P51	8	13.8 kV Transformer feeder (Type 2)	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P	Y		Y
€	P51	8	13.8 kV Transformer feeder (Type 2)	5XGF	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	<del>ld</del>	P	¥		¥
€	P51	8	13.8 kV Transformer feeder (Type 2)	77TIM	<del>Ai</del>	Motor running time (hours)	Motor Tempo de Funcionamento (Horas)	MMR	GTW	<del>ld</del>	1	l		¥
	P51	8	13.8 kV Transformer feeder (Type 2)	1						1				
	. 51		255 NV Honoromic record (type 2)		1	1	1			1	L			

									PMS: Power Management System GTW: Gateway VSI Ovinotibe Speed Drive Ris Intelligent Relay MMR: Multifaction Microprocessed Relay TGCP: Turbine Generator Control HMI: Human-Mochine Interface. CSS: Control Sofety System UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	V= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P21	101	4.16kV MV Motor Pump type 2	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		Y
0	P21	101	4.16kV MV Motor Pump type 2	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P21	101	4.16kV MV Motor Pump type 2	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P	Y		Y
C	P21	101	4.16kV MV Motor Pump type 2	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
0	P21	101	4.16kV MV Motor Pump type 2	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P21	101	4.16kV MV Motor Pump type 2	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P21	101	4.16kV MV Motor Pump type 2	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P21	101	4.16kV MV Motor Pump type 2	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	!	P	Y	Y	Y
0	P21	101	4.16kV MV Motor Pump type 2	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR MMR		P		Y	
0	P21 P21	101 101	4.16kV MV Motor Pump type 2 4.16kV MV Motor Pump type 2	520	DU Di	Circuit Breaker Opening Order Protection 27 - Undervoltage	Disjuntor - Ordem Abrir Proteção 27 - Subtensão	GTW MMR	GTW		P P	v	Y V	Y V
0	P21 P21	101	4.16kV MV Motor Pump type 2 4.16kV MV Motor Pump type 2	70	DI DI	Protection 27 - Undervoltage Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW		P .	v v	Y	T V
0	P21	101	4.16kV MV Motor Pump type 2	56	DI DI	Protection 36 - Bearing Protection  Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW		P P	v v		Y V
č	P21	101	4.16kV MV Motor Pump type 2	66.1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	i				ý
ō	P21	101	4.16kV MV Motor Pump type 2	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	i	P	Y		Ý
ō	P21	101	4.16kV MV Motor Pump type 2	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	i	P	Ý		Ý
0	P21	101	4.16kV MV Motor Pump type 2	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	1	P	Y		Y
0	P21	101	4.16kV MV Motor Pump type 2	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	P	Υ		Y
C	P21	101	4.16kV MV Motor Pump type 2	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	1				Y
0	P21	101	4.16kV MV Motor Pump type 2	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y		Y
C	P21	101	4.16kV MV Motor Pump type 2	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1				Y
C	P21	101	4.16kV MV Motor Pump type 2	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	1				Y
C	P21	101	4.16kV MV Motor Pump type 2	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	1	P	Υ		Y
D	P21	101	4.16kV MV Motor Pump type 2	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	1	P	Y		Y
A	P21	101	4.16kV MV Motor Pump type 2	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P21	101	4.16kV MV Motor Pump type 2	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1	l			Y
A	P21	101	4.16kV MV Motor Pump type 2	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	l			Y
0	P21	101	4.16kV MV Motor Pump type 2	77VRS	Al	Voltage Phases RS	Tensão Fose RS	MMR	GTW	1	l		Y	Y
0	P21	101	4.16kV MV Motor Pump type 2	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	l i	l		Ý	ý
0	P21	101	4.16kV MV Motor Pump type 2	77VTR	Al	Voltage Phases TR	Tensão Fose TR	MMR	GTW	1	ĺ		Υ	Y
C	P21	101	4.16kV MV Motor Pump type 2	77T1	Al	Temperature RTD1	Temperatura RTD1	MMR	GTW	1	1			Y
C	P21	101	4.16kV MV Motor Pump type 2	77T2	Al	Temperature RTD2	Temperatura RTD2	MMR	GTW	1	l			Y
C	P21	101	4.16kV MV Motor Pump type 2	77T3	Al	Temperature RTD3	Temperatura RTD3	MMR	GTW	1	l			Y
C	P21	101	4.16kV MV Motor Pump type 2	7714	Al	Temperature RTD4	Temperatura RTD4	MMR	GTW	!	l			Y
C	P21	101	4.16kV MV Motor Pump type 2	7775	AI	Temperature RTD5	Temperatura RTDS	MMR	GTW		ĺ			Y.
-	P21 P21	101 101	4.16kV MV Motor Pump type 2 4.16kV MV Motor Pump type 2	77T6 77T7	AI	Temperature RTD6 Temperature RTD7	Temperatura RTD6 Temperatura RTD7	MMR MMR	GTW GTW		ĺ			Y.
-	P21 P21	101	4.16kV MV Motor Pump type 2	7718	AI.	Temperature RTD8	Temperatura RTD8	MMR	GTW		ĺ			Ť.
o o	P21 P21	101	4.16kV MV Motor Pump type 2 4.16kV MV Motor Pump type 2	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW		l		v	; I
ŏ	P21	101	4.16kV MV Motor Pump type 2	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	l i	l			į į l
0	P21	101	4.16kV MV Motor Pump type 2	77VA	Al	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	l i	l			ý I
0	P21	101	4.16kV MV Motor Pump type 2	77WH	Al	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	l i	ĺ			Y
0	P21	101	4.16kV MV Motor Pump type 2	77PF	ΔΙ	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	i i	ĺ			v
l é	D21	101	4.16kV MV Motor Pump type 2	EWEE	CL.	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	44	₽	¥	¥	<u>u</u>
1		101			Γ.								· '	*
0	P21	101	4.16kV MV Motor Pump type 2					l			1			
		101		- 1			1							L

PMS : Power Management System GTW : Gateway VSD :Variable Speed Drive

Rev 0 0 C	Customer Item N° P22 P22 P22 P22	System Item N°	Item Description						SYNC: Sychinonizer UCP: Unit Control Pane					1
0 0 C	P22		item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
C C		102	4.16kV MV Motor Pump type 3	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		Y
C		102	4.16kV MV Motor Pump type 3	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
		102	4.16kV MV Motor Pump type 3	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	Į.	P	Y		Y
C	P22	102	4.16kV MV Motor Pump type 3	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	!	P			Y.
0	P22	102	4.16kV MV Motor Pump type 3	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	!	P			Y.
0	P22	102	4.16kV MV Motor Pump type 3	520 528	DU DI	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW MMR	MMR GTW	1	P	v	v	,
0	P22 P22	102 102	4.16kV MV Motor Pump type 3 4.16kV MV Motor Pump type 3	52B 52A	DI DI	Circuit Breaker Closed Status Circuit Breaker Open Status	Disjuntor - Status Fechado Disjuntor - Status Aberto	MMR	GTW	1	,	v	v	; l
0	P22 P22	102	4.16kV MV Motor Pump type 3	TRIP	DI .	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	,	v	,	, ' l
0	P22	102	4.16kV MV Motor Pump type 3	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW		-	v		i l
0	P22	102	4.16kV MV Motor Pump type 3	27	ni ni	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	i		v	v	
0	P22	102	4.16kV MV Motor Pump type 3	66	DI .	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW		P	· v		ý
č	P22	102	4.16kV MV Motor Pump type 3	66 1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	i	Р.	Ý		Y
0	P22	102	4.16kV MV Motor Pump type 3	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	i	Р.	Ý		Y
c	P22	102	4.16kV MV Motor Pump type 3	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	1	P	Y		Y
0	P22	102	4.16kV MV Motor Pump type 3	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	P	Y		Y
0	P22	102	4.16kV MV Motor Pump type 3	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	1	P	Y		Y
0	P22	102	4.16kV MV Motor Pump type 3	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	P	Y		Y
С	P22	102	4.16kV MV Motor Pump type 3	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	1	P	Y		Y
0	P22	102	4.16kV MV Motor Pump type 3	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y		Y
C	P22	102	4.16kV MV Motor Pump type 3	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y		Y
C	P22	102	4.16kV MV Motor Pump type 3	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	1	P	Y		Y
C	P22	102	4.16kV MV Motor Pump type 3	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	1	P	Y		Y
D	P22	102	4.16kV MV Motor Pump type 3	89	DI	Earth Switch Closed	Chove de Terra fechada	MMR	GTW	1	P	Y		Y
A	P22	102	4.16kV MV Motor Pump type 3	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P22	102	4.16kV MV Motor Pump type 3	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
A	P22	102	4.16kV MV Motor Pump type 3	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
0	P22	102	4.16kV MV Motor Pump type 3	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
0	P22	102	4.16kV MV Motor Pump type 3	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1				v I
0	P22	102	4.16kV MV Motor Pump type 3	77VTR	AI	Voltage Phases TR	Tensão Fose TR	MMR	GTW	1				v I
0	P22	102	4.16kV MV Motor Pump type 3	77W	AI	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1			Y	Y
0	P22	102	4.16kV MV Motor Pump type 3	77VAR	AI	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1				Y
0	P22	102	4.16kV MV Motor Pump type 3	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	1				v I
0	P22	102	4.16kV MV Motor Pump type 3	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	1				Y
0	P22	102	4.16kV MV Motor Pump type 3	77PF	AI	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	1				Y
C	P22	102	4.16kV MV Motor Pump type 3	77T1	AI	Temperature RTD1	Temperatura RTD1	MMR	GTW	1				Y
C	P22	102	4.16kV MV Motor Pump type 3	77T2	Al	Temperature RTD2	Temperatura RTD2	MMR	GTW	1				Y.
C	P22 P22	102 102	4.16kV MV Motor Pump type 3 4.16kV MV Motor Pump type 3	77T3 77T4	AI AI	Temperature RTD3 Temperature RTD4	Temperatura RTD3 Temperatura RTD4	MMR MMR	GTW GTW					, č
č	P22	102	4.16kV MV Motor Pump type 3 4.16kV MV Motor Pump type 3	77T5	Al	Temperature RTDS	Temperatura RTDS	MMR	GTW	1				į į
č	P22	102	4.16kV MV Motor Pump type 3	7776	AI	Temperature RTD6	Temperatura RTD6	MMR	GTW	i				, v
C	P22	102	4.16kV MV Motor Pump type 3	7717	AI	Temperature RTD7	Temperatura RTD7	MMR	GTW	1				Y
C	P22	102	4.16kV MV Motor Pump type 3	7718	Al	Temperature RTD8	Temperatura RTD8	MMR	GTW	1				Y
€	P22	102	4.16kV MV Motor Pump type 3	5XGF	Di-	Protection Ground Foult (UAS)	Proteção Fugo a Terra (UAS)	HHR	<del>CTW</del>	<del>ld</del>	P	¥		¥
0	P22	102	4.16kV MV Motor Pump type 3											

								1	PMS: Power Management System GTW: Galeway VSD Veriable Speed Orne RE: Intelligent Reiby WRR: Multifaction Microprocessed TGCP: Turbine Gareemor Control PMRI HIR Human-Hachine Intelligent HIR1: Human-Hachine Intelligent SYME: Sychmonizer UCP: Unit Control Pone UCP: Unit Control Pone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative Pulse PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P18	103	4.16kV MCC Incomer Circuit Breaker	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P18	103	4.16kV MCC Incomer Circuit Breaker	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P18	103	4.16kV MCC Incomer Circuit Breaker	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	l		Y
C	P18	103	4.16kV MCC Incomer Circuit Breaker	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y	Y	Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	1	P			Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y	Y	Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77VRS	Al	Busbar voltage RS (V)	Tensão Fase RS (V)	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77VST	Al	Busbar voltage ST (V)	Tensão Fase ST (V)	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77VTR	Al	Busbar voltage TR (V)	Tensão Fase TR (V)	MMR	GTW	1				Y
A	P18	103	4.16kV MCC Incomer Circuit Breaker	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P18	103	4.16kV MCC Incomer Circuit Breaker	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
A	P18	103	4.16kV MCC Incomer Circuit Breaker	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	50BF	DI.	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	i				v
Č	P18	103	4.16kV MCC Incomer Circuit Breaker	50	DI.	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	l i				·
, c	P18	103	4.16kV MCC Incomer Circuit Breaker	59N	DI.	Protection 59N - Overvoltage	Proteção 50 - Sobretensão Proteção 59N- Sobretensão	MMR	GTW	l i		l		· ·
0	P18	103	4.16kV MCC Incomer Circuit Breaker	60	DI	Protection 59N - Overvallage Protection 68 - Blocking relay	Proteção 59N- Sadreterisão Proteção 68 - Relé de bloqueio	MMR	GTW	1		l		· I
0	P18 P18		4.16kV MCC Incomer Circuit Breaker 4.16kV MCC Incomer Circuit Breaker	00	DI DI			MMR	GTW			l		· I
0		103	4.16kV MCC Incomer Circuit Breaker 4.16kV MCC Incomer Circuit Breaker	77W	DI DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW					, v
- 1	P18	103			UI	Active Power (W)	Potěncia Ativa (W)							*
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77VAR	DI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	1				Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77VA	DI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	1		l		Y
0	P18	103	4.16kV MCC Incomer Circuit Breaker	77WH	Al	Energy Consumption (kWh)	Consumo Energio (kWh)	MMR	GTW	1		l		Y
A	P18	103	4.16kV MCC Incomer Circuit Breaker	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	1	P	Y	Y	Y
€	P18	103	4.16kV MCC Incomer Circuit Breaker	<del>596</del>	<del>DI</del>	Protection 59G Ground Overvoltage	Proteção 59G Sobretensão	MMR	GTW	14		l		¥
€	P18	103	4.16kV MCC Incomer Circuit Breaker	5XGF	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	HHR	GTW	<del>td</del>	P	¥	¥	¥
1 1		1		1										
0	P18	103	4.16kV MCC Incomer Circuit Breaker	1										
		•		•		•					•	•		

								٨	PMS: Power Monogement System GTM: Gateway VSD Variable Speed Orive RE: Intelligent Relay WRR: Multifaction Microprocesed Responsible Control Responsible Control Responsible Responsible Relay Responsible Respons	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse Nf=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P19	104	4.16kV MCC Tie Circuit Breaker	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y	Y	Y
C	P19	104	4.16kV MCC Tie Circuit Breaker	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P19	104	4.16kV MCC Tie Circuit Breaker	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P	l	1	Y
C	P20	104	4.16kV MCC Tie Circuit Breaker	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P		1	Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	52C	DO	Circuit Breaker Closing Order	Disjuntar - Ordem Fechar	GTW	MMR	1	P			Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y	Y	Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y		Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1	P	Y		Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	68	DI	Protection 68 - Blocking relay	Protecão 68 - Relé de bloqueio	MMR	GTW	l i	P	Y		Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	γ		Y
c	P19	104	4.16kV MCC Tie Circuit Breaker	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	l i				Y
Α	P19	104	4.16kV MCC Tie Circuit Breaker	77CR	Al	Current Phase R (A)	Corrente Fose R (A)	MMR	GTW	1				Y
^	P19	104	4.16kV MCC Tie Circuit Breaker	77CS	A1	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				v
A	P19	104	4.16kV MCC Tie Circuit Breaker	77CT	21	Current Phase 3 (4)	Corrente Fase T (A)	MMR	GTW	1				v
0	P19	104	4.16kV MCC Tie Circuit Breaker	77VRS	AI.	Busbar voltage RS (V)	Tensão Fose RS (V)	MMR	GTW	1			1	· v
0	P19 P19	104	4.16kV MCC Tie Circuit Breaker  4.16kV MCC Tie Circuit Breaker	77VKS 77VST	A1		Tensão Fose ST (V)	MMR	GTW	1				v v
- 1				77VSI 77VTR	AI	Busbar voltage ST (V)		MMR	GTW	1				į.
0	P19 P19	104 104	4.16kV MCC Tie Circuit Breaker 4.16kV MCC Tie Circuit Breaker	77VTR 77W	AI	Busbar voltage TR (V)	Tensão Fase TR (V) Potência Ativa (W)	MMR	GTW	1			1	Y V
- 1					AI	Active Power (W)		MMR	GTW	l :		l	1	Y V
0	P19	104	4.16kV MCC Tie Circuit Breaker	77VAR	AI	Reactive Power (Var)	Potěncia Reativa (Var)			1			1	Y .
0	P19	104	4.16kV MCC Tie Circuit Breaker	77VA	Al	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	1				Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	77WH	Al	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	1				Y
0	P19	104	4.16kV MCC Tie Circuit Breaker	77PF	Al	Power Factor (PF)	Fator de Patência (FP)	MMR	GTW		_	l	1	Y
A	P19	104	4.16kV MCC Tie Circuit Breaker	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	I .	P	Y	1	Y
€	P19	104	4-16kV MCC Tie Circuit Breaker	77C_R	Ald	Output Current R (A)	Corrente Saida Fase R (A)	MMR	<del>GTW</del>	<del>ld</del>			1	¥
€	P19	104	4.16M/ MCC Tie Circuit Breaker	77C_S	Ald	Output Current S (A)	Corrente Saída - Fase S (A)	MMR	GTW	Hd.				¥
÷	P19	104	4.16k/ MCC Tie Circuit Breaker	77C_T	Aid	Output Current - T (A)	Corrente Saída - Fase T (A)	MMR	GTW	1d		l	1	¥
1 1				1	1	1				1			1	
0	P19	104	4.16kV MCC Tie Circuit Breaker											
	·		·	·					·		·		-	· · · · · · · · · · · · · · · · · · ·

Reserved   Customer	System   Item N   105	. Item Description	I/O Type	I/O Nature							1		J
C P23 C P23	105 105 105 105 105 105	4.16kV Motor type EA04_M 4.16kV Motor type EA04_M			I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
C 925 C 925 O 925 O 925 O 925 O 925 O 925 O 925 O 925 O 925 O 925 C 925 O 925 C 925	105 105 105 105 105	4.16kV Motor type EAD4_M	2010	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	w	N	Υ		Y
C 923 0 923 0 923 0 923 0 923 0 923 0 923 0 923 0 923 0 923 0 923 C 923 C 923 C 925	105 105 105 105		75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	Р			Y
O P23 O P23	105 105 105	6.3 GM/ Motor tupo EARA M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	Р			Y
O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 C P23 C P23 C P23 C P23 C P23 C P23 C P23 C P23 C P23 C P23 O P25	105 105	4.10kV (10t0) type EN04_11	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	Р			Y
0   P25   0   P25	105	4.16kV Motor type EA04_M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	Р	Y	Y	Y
0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P25		4.16kV Motor type EAD4_M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	Р	Υ	Y	Y
O P23 O P23 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 C P25 C P25 C P25 C P25 C P25 O P25	106	4.16kV Motor type EA04_M	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	Р	Y		Y
O P23 C P23 C P23 O P23 O P23 O P24 O P24 C P25 C P25 C P25 C P25 C P25 C P25 C P25 C P25 C P25 O P25	100	4.16kV Motor type EA04_M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	Р	Y		Y
O P25 C P25 O P25 O P25 O P25 O P25 O P25 C P25	105	4.16kV Motor type EAD4_M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	Р	Y	Y	Y
C P25 0 P25 0 P25 0 P25 0 P27 C P25	105	4.16kV Motor type EAD4_M	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	1	Р	Y		Y
O P23 O P23 O P23 O P23 O P25 O P25 O P25 C P25 C P25 C P25 O P25	105	4.16kV Motor type EA04_M	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	1	Р	Y		Y
O P25 O P25 C P25 C P25 C P25 C P25 C P25 C P25 C P25 C P25 C P25 O P25	105	4.16kV Motor type EA04_M	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	1	Р	Y		Y
O P25 C P25 O P25 C P25 C P25 C P25 C P25 C P25 C P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25	105	4.16kV Motor type EA04_M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	Р	Y		Y
C P25 C P25 C P25 C P25 C P25 C P25 C P25 A P25 A P25 A P25 O P25	105	4.16kV Motor type EA04_M	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	1	Р	Y		Y
O P25 C P25 C P25 C P25 C P25 D P25 D P25 A P25 A P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25 O P25	105	4.16kV Motor type EA04_M	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	Р	Y		Y
C P25 C P25 C P25 C P25 C P25 A P25 A P25 A P25 O P25	105	4.16kV Motor type EA04_M	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	1	Р	Y		Y
C P23 C P23 C P23 A P23 A P23 A P23 C P23	105	4.16kV Motor type EA04_M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	Р	Y		Y
C P23 D P23 A P23 A P23 A P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23	105	4.16kV Motor type EA04_M	50BF	DI	Protection 50BF - Breaker Failure	Proteção SOBF - Falha no Disjuntor	MMR	GTW	1	Р	Y		Y
D P23 A P23 A P23 A P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23	105	4.16kV Motor type EAD4_M	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	1	Р	Y		Y
A P23 A P23 A P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23	105	4.16kV Motor type EAD4_M	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	1	Р	Y		Y
A P23 A P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23 O P23	105	4.16kV Motor type EAD4_M	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	1	Р	Y		Y
A P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EA04_M	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1	, ,			Y
0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EA04_M	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1	, ,			Y
0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EA04_M	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	, ,	1		Y
0 P23 0 P23 0 P23 0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EA04_M	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1	, ,			Y
0 P23 0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EA04_M	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1	, ,			Y
0 P23 0 P23 0 P23 0 P23	105	4.16kV Motor type EAD4_M	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1	, ,	1		Y
0 P23 0 P23 0 P23	105	4.16kV Motor type EAD4_M	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1	, ,	1	Υ	Υ
0 P23 0 P23	105	4.16kV Motor type EAD4_M	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1	, ,	1		Υ
0 P23	105	4.16kV Motor type EAD4_M	77VA	Al	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	1	, ,	1		Y
	105	4.16kV Motor type EA04_M	77WH	Al	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	1	, ,			Y
	105	4.16kV Motor type EA04_M	77PF	Al	Power Factor (PF)	Fator de Patência (FP)	MMR	GTW	1	, ,			Y
C P23	105 105	4.16kV Motor type EAD4_M	77T1 77T2	Al	Temperature RTD1	Temperatura RTD1	MMR MMR	GTW GTW		, ,			Y
C P23	105	4.16kV Motor type EA04_M 4.16kV Motor type EA04_M	7712	Al	Temperature RTD2 Temperature RTD3	Temperatura RTD2 Temperatura RTD3	MMR	GTW		, ,			Y V
C P23		4.16kV Motor type EAD4_M	7714	Al	Temperature RTD4	Temperatura RTD4	MMR	GTW	i	, ,			Ÿ
C P23	105	4.16kV Motor type EA04_M	77T5	Al	Temperature RTD5	Temperatura RTDS	MMR	GTW	1	, '	1		Y
C P23	105 105	4.16kV Motor type EAD4_M	7716	Al	Temperature RTD6	Temperatura RTD6	MMR	GTW		, '	1		Y
C P23 C P23	105 105 105	4.16kV Motor type EA04_M 4.16kV Motor type EA04_M	77T7 77T8	Al	Temperature RTD7 Temperature RTD8	Temperatura RTD7 Temperatura RTD8	MMR MMR	GTW GTW	1	, ,	1		Y.
£ 823	105 105 105 105	4.16kV Motor type EA04_M	EXCE	Did	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	14	ф.	¥		<u>;</u>
- 1	105 105 105 105 105	the type broad :	5,00		Commence of many and property	· · · · · · · · · · · · · · · · · · ·		0.44			1 1		·
0 P23	105 105 105 105									, ,	1		

									PMS : Power Management System GTW : Gateway VSD Narioble Speed Drive R: Intelligent Reley VSD Narioble Speed Drive R: Intelligent Reley VSD Narioble Speed Drive R: Intelligent Reley VSD Narioble Speed Drive Relegation Re	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative Pulse PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P24	106	4.16kV Motor type EA01_M (1000kW)	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	42C_RQ	DI	Authorization to Start Request	Autorização Requisição de Partida	MMR	GTW	1	P	Y		Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	42B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	1	P	Y	Y	Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	42A_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	1	P	Y	Υ	Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P24	106	4.16kV Motor type EA01_M (1000kW)	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y Y
C	P24	106	4.16kV Motor type EA01_M (1000kW)	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			, Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	TRIP_2	DI	Protection Tripped (UAS) (IEC)	Proteção Trip (UAS) (IEC)	MMR	GTW	1	P	Y	Y	, Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	69R_2	DI	Circuit Breaker Available (Ready) (IEC)	Disjuntor Disponível (Pronto) (IEC)	MMR	GTW	1	P	Y	Y	Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	1	P		Y	1
0	P24	106	4.16kV Motor type EA01_M (1000kW)	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P		Y	ı Y
A	P24	106	4.16kV Motor type EA01_M (1000kW)	420I_LS	DO	Load shedding activated (info)	Descarte de Carga Ativado	GTW	MMR	1	P	Y	Y	ı Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y	Y	ı Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	1	P	Y		ı Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR MMR	GTW GTW		P	v v		ı <u>Y</u> l
0	P24	106	4.16kV Motor type EA01_M (1000kW)	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa		GTW		P .	Υ		ı <u>Y</u> l
0	P24	106	4.16kV Motor type EA01_M (1000kW)	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR			P .	Υ		ı <u>Y</u> l
0	P24	106	4.16kV Motor type EA01_M (1000kW)	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW		P .	Υ		ı <u>Y</u> l
C	P24	106	4.16kV Motor type EA01_M (1000kW)	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR MMR	GTW GTW		P	Y		, <u>,</u> ,
0	P24	106	4.16kV Motor type EA01_M (1000kW)	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW		P	Y		ı i
	P24	106	4.16kV Motor type EA01_M (1000kW)	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW		P	Y		ı i
A	P24	106	4.16kV Motor type EA01_M (1000kW)	77CR	Al	Current Phase R (A)	Corrente Fase R (A)							ı <u> </u>
A	P24	106	4.16kV Motor type EA01_M (1000kW)	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW					Y
A	P24 P24	106 106	4.16kV Motor type EA01_M (1000kW) 4.16kV Motor type EA01_M (1000kW)	77CT 77VRS	Al	Current Phase T (A) Voltage Phases RS	Corrente Fose T (A) Tensão Fose RS	MMR	GTW GTW	!				· Y
0	P24 P24	106	4.16kV Motor type EAU1_M (1000kW) 4.16kV Motor type EAU1_M (1000kW)	77VKS 77VST	Al	Voltage Phases RS Voltage Phases ST	Tensão Fase ST	MMR MMR	GTW GTW					, š
ō	P24	106	4.16kV Motor type EA01_M (1000kW)	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	i				v v
0	P24	106	4.16kV Motor type EA01_M (1000kW)	77W_2	Al	Active Power (W) (IEC)	Potěncia Ativa (W) (IEC)	MMR	GTW	1			Y	Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	77VAR	Al	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1				Y I
0	P24	106	4.16kV Motor type EA01_M (1000kW)	77VA	Al	Apparent Power (VA)	Potěncia Aparente (VA)	MMR	GTW	1				Y I
0	P24	106	4.16kV Motor type EA01_M (1000kW)	77WH	Al	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	1				Y
0	P24	106	4.16kV Motor type EA01_M (1000kW)	77PF 77T1	Al	Power Factor (PF)	Fator de Potência (FP)	MMR	GTW	!				Y
Ċ	P24 P24	106 106	4.16kV Motor type EA01_M (1000kW) 4.16kV Motor type EA01_M (1000kW)	77T1 77T2	Al	Temperature RTD1 Temperature RTD2	Temperatura RTD1 Temperatura RTD2	MMR MMR	GTW GTW					, <u> </u>
č	P24 P24	106	4.16kV Motor type EA01_M (1000kW)	7713	Al	Temperature RTD3	Temperatura RTD3	MMR	GTW	l i				,
C	P24	106	4.16kV Motor type EA01_M (1000kW)	7714	Al	Temperature RTD4	Temperatura RTD4	MMR	GTW	1				Y
C	P24	106	4.16kV Motor type EA01_M (1000kW)	77T5	Al	Temperature RTD5	Temperatura RTD5	MMR	GTW	!				Y.
Ċ	P24 P24	106 106	4.16kV Motor type EA01_M (1000kW) 4.16kV Motor type EA01_M (1000kW)	77T6 77T7	Al	Temperature RTD6 Temperature RTD7	Temperatura RTD6 Temperatura RTD7	MMR MMR	GTW GTW					, <u> </u>
č	P24 P24	106	4.16kV Motor type EA01_M (1000kW)	7718	Al	Temperature RTD8	Temperatura RTD8	MMR	GTW	l i				,
€	P24	106	4.16kV Motor type EA01_M (1000kW)	<del>SXGF</del>	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fugo a Terra (UAS)	MMR	GTW	+4	P	¥		· *
١.														, l
0	P24	106	4.16kV Motor type EA01_M (1000kW)					l			1			



								1	PMS - Rower Management System GTW - Gateway VSD Vorriche Speed Drive R: Intelligent System GTW - Gateway MMM: Multiflection Mr. Outprocessed MMM: Multiflection Mr. Outprocessed MMM: Multiflection Mr. Outprocessed For - Luthine Resemblator Control Panel IMM: Human - McGriber Briefface. CSS: Control & Safety System STM: C. Systemation LOP: Unit Control Panel	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HPII
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P24	1106	4.16kV Motor type EA01_M (1000kW)	42B_1	DI	Circuit Breaker Closed Status (Wired)	Disjuntar - Status Fechado (Com fio)	MMR	PMS	W	P	Υ		Υ
0	P24	1106	4.16kV Motor type EA01_M (1000kW)	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Υ		Y
A	P24	1106	4.16kV Motor type EA01_M (1000kW)	420_LS		Load shedding command	Comando Descarte de Carga	PMS	MMR	W	P		Yd	Y
0	P24	1106	4.16kV Motor type EA01_M (1000kW)	42C_AUTH	DO	Load start authorization (1= Start Inhibit 0=Start Authorization) - NC contact	Carga - Autorização de partida (1=Partida Inibida 0=partida Autorizada) - Contato NF	PMS	MMR	W	N		Y	Y
0	P24	1106	4.16kV Motor type EA01_M (1000kW)	77W_1	Al	Active Power (W) (Wired)	Potěncia Ativa (W) (Cabo)	MMR	PMS	W			1	Y
0	P24	1106	4.16kV Motor type EA01_M (1000kW)	TRIP_1	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	PMS	W	P	Y		
A	P24	1106	4.16kV Motor type EA01_M (1000kW)	69R_1	DI	Circuit Breaker ready (Wired)	Disjuntor Pronto (Cabo)	MMR	PMS	W	P	Y		Y
0	P24	1106	4.16kV Motor type EA01_M (1000kW)											

										PMS: Power Management System GTM: Gateway VSD Warable Speed Trive III: Intelligent Reby MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance Melay MMR: Multilance MMR: Multilance Melay MMR: System System Syste: Systemonize UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative Pulse PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
P5	Rev			Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
C	0	P25	107	4.16kV MCC CB Feeder to Hull	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		Y
C	0	P25	107	4.16kV MCC CB Feeder to Hull		DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR		1	P			Y
P	C					DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste			1	P		1	Y
P5	C					DI					1	P			Y
P	0				52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR		1	P	Y	Y	Y
P25	0					DI					1	P	Y	Y	Y
D	0					DI					1	P	Y		Y
A   P25   107   A16W MCC EB Feeder to Hull   77CS   AI   Current Probable R	-				69AV	DI						P	Y		Y
A   P25   107   \$180 MCC ER Feeder to Hull   77CT   A   Current Phase 5 A)   Current Phase	_				89	DI						P	Y		Y
A   P25   107   A16W MCC CE Feeder to Hull   77CF   A1   Current Phose Ti A1   Current Phose Phose ST   Tendo Prose ST   Phose Pho						Al									Y
P25						Al									Y
P25						Al					1				Y
P25	0					Al					1				Y
P25	0					Al					1				Y
P25	0					Al						_			Y
Post   P25   107   A 186W MCC CB Reeder to Hull   S0   D1   Protection 27 - Lindeworking   Protection 27 - Subtenation   Protection 27 - Subtenation   Protection 27 - Subtenation   Protection 28 - Subtenation   Protection   Protection 28 - Subtenation   Protection    0					DO					!	P			Y	
P25	0				520	DO						P .			Y
P25	0				2/	DI					I .	P	l v	Υ	Y
Page   Page	0				50	DI					1	P P	l v	1	Y V
0   P25   107   A 16k/ MCC CB Feeder to Hull   S1   D1   Protection S1 - Overcurrent Time delayed   S1 - Sobre convents temporizado (tempo definido)   MMR   GTW   I   P	0					DI					1	P	l v	1	v v
Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Blocking relay   Protection 68 - Block de Bloquelo   MMR   GTW   I   P	0				5005	DI					1	P	l v	1	v v
C P25 107 4.16k/ MCC CB Feeder to Hull 86 DI Protection 86 - Lock Out Relay Protection 86 - Relé de Bloquelo MMR GTW I P 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Active Prove fW P 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Rective Prove fW P 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Rective Prove fW P 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Reparation Sealing for the MRR GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Finety Consumption (MWR) GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Finety Consumption (MWR) GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Finety Consumption (MWR) GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77W AI Finety Consumption (MWR) GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77FF AI Power factor (PF) Finds or @ Potencio (PF) MRR GTW I	0				21	DI						, P	ı v		·
0         P25         107         A.186W MCC.CE Reeder to Hull         77W         AI         Active Power (MI         Podence Askio (MI)         MMR         GTW         I           0         P25         107         A.186W MCC.CE Reeder to Hull         77WA         AI         Rescribe Power (VMI)         Podence Aspointed VMI         MMR         GTW         I           0         P25         107         A.186W MCC.CE Reeder to Hull         77WA         AI         Appeter Power (VMI)         Podence Aspointed VMI         MMR         GTW         I           0         P25         107         A.186W MCC.CE Reeder to Hull         77WH         AI         Power Power (VMI)         Consumo Energia (WMI)         MMR         GTW         I           0         P25         107         A.186W MCC.CE Reeder to Hull         77FWH         AI         Power Power (VMI)         Consumo Energia (WMI)         MMR         GTW         I           0         P25         107         A.186W MCC.CE Reeder to Hull         77FWH         AI         Power Power (VMI)         Power Power (VMI)         MMR         GTW         I	0				86	DI DI					l i	, p	l ,		, v
0         P.25         1.07         4.16k/ MCC.CB Feeder to Hull         77VAR         AI         Recutive Power (Vor)         Podencia Restiva (Vor)         MMR         GTW         I           0         P.25         1.07         4.16k/ MCC.CB Feeder to Hull         77VA         AI         Appointer Power (Vor)         Podencia Agrointe (VA)         MMR         GTW         I           0         P.25         1.07         4.16k/ MCC.CB Feeder to Hull         77VH         AI         Energy Cossumption (Whit)         Consumo Energia (Whit)         MMR         GTW         I           0         P.25         1.07         4.16k/ MCC.CB Feeder to Hull         77PF         AI         Power factor (PF)         Float one Position (PF)         MMR         GTW         I					77W	AI.					l i		· .		·
0         P25         107         4.18k/ MCC CB Feeder to Hull         77VA         AI         Apparent Power N/AI         Polencia Apparente (NA)         MMR         GTW         I           0         P25         107         4.18k/ MCC CB Feeder to Hull         77VH         AI         Power Total Pier Foot OFF         Consumption (NMH)         MMR         GTW         I           0         P25         107         4.18k/ MCC CB Feeder to Hull         77FF         AI         Power Foot OFF (PIE)         MMR         GTW         I	0					AI.					1	1		1	v v
0 P25 107 4.16k/ MCC CB Feeder to Hull 77WH AI Energy Consumption (Whi) Consumo Energio (kWh) MMR GTW I 0 P25 107 4.16k/ MCC CB Feeder to Hull 77PF AI Power Foctor (PP) Fotor de Potêncio (FP) MMR GTW I	1 0					Al					l i	l	l		·
0 P25 107 k.16k/ MCC.CB Feeder to Hull 779F AI Power Factor (PF) Factor de Postencia (PF) MMR GTW I	0					Al					i	1			· v
	0					Al					1	l	l		Y
	€				SXGF	<del>DI</del>			MMR	GTW	14	P	¥	1	¥
	1		1						1	1					
0 P25 107 4.16k/ MCC CB Feeder to Hull	0	P25	107	4.16kV MCC CB Feeder to Hull											

									PMS: Power Management System GTM: Grieway VSD Ustrable Speed Orive VSD Ustrable Speed Orive MRR: Hullifanchian Microprocessed Reby TGCP: Turbine Generator Control Ponel HMI: Human-Machine Interface. CSS: Control & Sofley System UCP: Linit Control Pane	I≃IEC61850 W≃wired M≃Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P26	200	LV_CDC Incomer	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		Y
A	P26	200	LV_CDC Incomer	27_CTR	DI	Control Voltage Failure	Falha na Tensão de Controle	MMR	GTW	W	P	Y	Y	Y
C	P26	200	LV_CDC Incomer	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
С	P26	200	LV_CDC Incomer	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
C	P26	200	LV_CDC Incomer	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
0	P26	200	LV_CDC Incomer	52C	DO	Circuit Breaker Closing Order	Disjuntar - Ordem Fechar	GTW	MMR	1	P			Y
0	P26	200	LV_CDC Incomer	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P26	200	LV_CDC Incomer	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P26	200	LV_CDC Incomer	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P26	200	LV_CDC Incomer	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P26	200	LV_CDC Incomer	69AV	DI		Disjuntor Disponível (Pronto)	MMR	GTW	1	P	γ	Y	Y
A	P26	200	LV_CDC Incomer	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
A	P26	200	LV_CDC Incomer	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1				Y
A	P26	200	LV_CDC Incomer	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Y
0	P26	200	LV_CDC Incomer	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1				Y
A	P26	200	LV_CDC Incomer	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P26	200	LV_CDC Incomer	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1	1			Y
A	P26	200	LV_CDC Incomer	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	1			Y
0	P26	200	LV_CDC Incomer	77VAR	AI	Reactive Power (Var)	Potěncia Reativa (Var)	MMR	GTW	1	1			Y
0	P26	200	LV_CDC Incomer	77VA	Al	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	1	1			Y
A	P26	200	LV_CDC Incomer	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	1	P	Y		Y
С	P26	200	LV_CDC Incomer	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Υ		Y
C	P26	200	LV_CDC Incomer	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
C	P26	200	LV_CDC Incomer	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definida)	MMR	GTW	1	P	Y		Y
A	P26	200	LV_CDC Incomer	5XGF_ST1	DI	Ground Fault Stage 1	Fugo à Terra Estágio 1	MMR	GTW	1	P	Y		Y
A	P26	200	LV_CDC Incomer	5XGF_ST2	DI	Ground Fault Stage 2	Fuga à Terra Estágio 2	MMR	GTW	1	P	Υ		Y
A	P26	200	LV_CDC Incomer	5XGF_FLT	DI	Ground Fault device failed	Falha Fuga à terra	MMR	GTW	1	P	Υ		Y
€	P26	200	LV_CDC Incomer	SXGF	<del>CI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	<del>ld</del>	P	¥	¥	¥
ı			ĺ	1	1			l			l			
0	P26	200	LV_CDC Incomer					I			1			
						•		•			•	•		•

									PMS: Power Monogement System GTW: Gotteway VSD Woroble Speed Drive Ris Intelligent Relay MMR: Multifancian Microprocessed Relay TGCP: Turbine Generator Control HMI: Human-Mochine Interface. CSS: Control S orley System SYNC: Sychnronizer UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Pulse Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	css	нмі
0	P27	201	LV_CDC Tie	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Υ		Y
A	P27	201	LV_CDC Tie	27_CTR	DI		Falha na Tensão de Controle	MMR	GTW	W	P	γ	Y	Y
0	P27	201	LV_CDC Tie	52C	DO		Disjuntar - Ordem Fechar	GTW	MMR	1	P			Y
0	P27	201	LV_CDC Tie	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P27	201	LV_CDC Tie	52B	DI	Circuit Breaker Closed Status	Disjuntar - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P27	201	LV_CDC Tie	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Υ	Y	Y
0	P27	201	LV_CDC Tie	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P27		LV_CDC Tie	69AV	DI		Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y	Y	Y
C	P27		LV_CDC Tie	50BF	DI		Proteção SOBF - Falha no Disjuntor	MMR	GTW		P	Y		Y
C	P27	201	LV_CDC Tie	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	l '	P	Y		Y
C	P27	201	LV_CDC Tie	51	DI		51- Sobre-corrente temporizada (tempo definido)	MMR	GTW		P	Y		Y
C	P27	201	LV_CDC Tie	50GS	DI		Proteção 50GS - Fuga a Terra	MMR	GTW		P	Y		Y
C	P27	201	LV_CDC Tie	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW		P			Y
C	P27	201	LV_CDC Tie	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW		P			Y
C	P27	201	LV_CDC Tie	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
A	P27		LV_CDC Tie	33L	DI		Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	1	P	Y		Y
C	P27		LV_CDC Tie	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW					Y
C	P27	201	LV_CDC Tie	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
C	P27	201	LV_CDC Tie	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW					Y
C	P27	201	LV_CDC Tie	77VRS	Al	Voltage Phases RS	Tensão Fose RS	MMR	GTW					Y
C	P27	201	LV_CDC Tie	77VST	Al	Voltage Phases ST	Tensão Fose ST	MMR	GTW					Y
С	P27	201	LV_CDC Tie	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Υ
0	P27	201	LV_CDC Tie											
				•	•	•			•	•	•			•

Columner   Columner		Y= data exchanged With CSS	Y= data time stamped at source	P=positive N=negative PP=Positive Pulse PM=Positive Mointained NP=Negative Pulse NM=Negative Mointained	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	PMS: Power Management System VSD Variable Speed Drive III: Intelligent Reby WHIR Nutlifacetion Microprocessed Res Intelligent Reby MMR: Nutlifacetion Microprocessed Reby FEGEP: Turber Speed Foreit Hell Human-Machine Interface. CSS: Control & Sofety System SYNC: System Sale UCP: Unit Central Pane									
PR	нмі	CSS	Time Stamp	I/O Logic	I/O Origin	То	From	Tradução em português	I/O Description	I/O Nature	I/O Type	Item Description			Rev
Paragraphy	Y		Y	N	W			Relé de Proteção - Watchdog (0 = Falha)	Protection Relay Watchdog (0 = Failure)	DI	74WD	LV_CDC Motor Type EA01-M	202	P28	0
C	ļ ,	Y		P	1				Circuit Breaker Closing Order	DO					0
P3	Y	Y		Р	1					DO					0
P28   202   V_CCC Motor Type RALI-H   TRIP   D   Protection Tripped HUMS   Digutor - Stotus Alberto   MMB   GTW   I   P   V   V   V   V   V   V   V   V   V	Y	Y	Y	P	1					DI					C
Page   202   U,CCC Mooth Type EAD1-M   TBP   DI   Protection Troped (UAS)   Protection Tagged	Y	Y	Y	P	1			*		DI					0
Page   202   V_CCC Moot Type EAU1-H   99W   D   Circuit Stream Another Ready  D   Diguttor Deponded Promote)   Page   V_CC Moot Type EAU1-H   Page   Page   V_CCC Moot Type EAU1-H	Y	Y	Y	P	1					DI					0
Page   202   V_CCD Motor Type EAD1-94   27	Y	Y	Y	Р	1					DI					0
C P28 202 V,CDC Motor Type RAD-14 9 9 0 Protection 6- Persone Protect C P28 202 V,CDC Motor Type RAD-14 9 9 0 Protection 6- Persone Protect C P28 202 V,CDC Motor Type RAD-14 9 9 0 Protection 58TH reproduction 4 Protection 4 Protection 58TH reproduction 5 Protection 5 Protect	Y I	Y	Y	P	1					DI	69AV				0
C P28 202 V_CDC Motor Type EAD.1-M 99 D1 Protection 9- Threshold Protection 9-	Y I		Y	P	1					DI	27				C
C P28 202 V,CDC Moot Type EAD1-M 66 0 Protection SDBT - Index Follow Protection SDBT - Index	Y .	Υ	Y	P						DI	46				C
C P28 720 V_CDC Motor Type EAD.1-H 66 D1 Protection 65 - Times Swinner of start Protection 65 - Time Swinner Decession de Portidos MMB GTW I P V V P P P V P P P P P P P P P P P P	Y ,	Y	Y V	P						DI	49 conc				
C P28 202 U,CDC Motor Type EAD.1-M 65,1 D1 Protection 65 - Time Browers Storts Protection 5 - Time Browser Porticions MMR GTW I P Y DISTRICT Conception 5 - Time Browser Storts District Particion 5 MMR GTW I P P Y DISTRICT CONCEPTION 5 MMR GTW I P P Y DISTRICT	Y ,	Y	Y V	P						DI	SUBF				
C P28 202 VV_CDC Motor Type EA01-44 75WD D1 Circuit Breaker Extracted Disjurtor - Postigido MMR GTW I P C P28 202 VV_CDC Motor Type EA01-44 75STT D1 Circuit Breaker In Task Pastion D3-unitor - Postigido Teste MMR GTW I P A P28 202 VV_CDC Motor Type EA01-44 75CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77CT A1 Current Phose F(A) Corrente Fose F(A) MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FS Tendo Fose FS MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FS Tendo Fose FS MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FS Tendo Fose FS MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FS Tendo Fose FS MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FT Tendo Fose FR MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FT Tendo Fose FR MMR GTW I A P28 202 VV_CDC Motor Type EA01-44 77VGT A1 Voltage Phoses FT Tendo Fose FR MMR GTW I	Y	Y	Y	P						DI	66				
C P28 202 U,CCC Moor Type EAD.1-M 75TST DI Circuit Seeder in the Fastion Disjuntor - Posiçõe Teste C P28 202 U,CCC Moor Type EAD.1-M 75CNT DI Circuit Seeder in the Fastion Disjuntor - Posiçõe Teste A P28 202 U,CCC Moor Type EAD.1-M 77CR AI Current Place R (A) Corrente Fase R (A) MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77CT AI Current Place R (A) Corrente Fase R (A) MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77CT AI Current Place R (A) Corrente Fase R (A) MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77CT AI Current Place R (A) Corrente Fase R (A) MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77CT AI Voltage Places TS Tendo Fase RS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS Tendo Fase RS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS Tendo Fase TS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS Tendo Fase TS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS Tendo Fase TS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS Tendo Fase TS MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS TENDO Fase TR MMB GTW I A P28 202 W,CCC Moor Type EAD.1-M 77VGT AI Voltage Places TS TENDO Fase TR MMB GTW I			Y	P						DI					
C P28 202 U_CCC Moor Type EAD1-M 75CNT DI CITCUIt Breaker Connected Disjuttor Conectedo MMR GTW I P A P28 202 U_CCC Moor Type EAD1-M 77CR AI Current Phose RIA Corrent Flose RIA MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77CS AI Current Phose SIA Corrent Flose SIA MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77CT AI Current Phose FIA Corrent Flose FIA MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77CT AI Current Phose FIA Corrent Flose FIA MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIS AI Voltage Phose RS TEMBO Flose ST MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose ST Tembo Flose ST MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose ST MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS TEMBO Flose RS MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS TEMBO Flose RS MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS TEMBO Flose RS MMR GTW I A P28 202 U_CCC Moor Type EAD1-M 77VIST AI Voltage Phose RS TEMBO Flose RS MMR GTW I	· · · · · · · · · · · · · · · · · · ·	I		,						DI DI					-
A P28 202 U,CCC Motor Type EA01-94 77CR AI Current Place R (A) Corrente Face R (A) MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77CT AI Current Place R (A) Corrente Face R (A) MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77CT AI Current Place R (A) Corrente Face R (A) MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77CT AI Current Place R (A) Corrente Face R (A) MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77VGT AI Voltage Places R5 Templo Face R5 MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77VGT AI Voltage Places R5 Templo Face R5 MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77VGT AI Voltage Places R5 Templo Face R5 MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77VGT AI Voltage Places R5 Templo Face R5 MMRB GTW I A P28 202 U,CCC Motor Type EA01-94 77VGT AI Voltage Places R5 Templo Face R6 MMRB GTW I A COPPER FACE R5 MMRB GTW	, v			P						DI .					-
A P28 202 LV_CCC Motor Type EAD1-M 77CS AI Current Phase S IAI Current Phase S IAI Corrente Fase S IAI Current Phase S IAI IAI Current Phase S IAI IAI IAI IAI IAI IAI IAI IAI IAI I		I			l i					AI.					Δ.
A P28 202 VL_CDC Motor Type EA01-94 77CT AI Current Place T (A) Current Place T (A) MMRB GTW I Voltage Place RS MMRB GTW I VOLTAGE RS MMRB GTW I	· ·				i					AI					_
A P28 202 U_CCC Notor Type EAOL-M 77V/S AI Voltage Phoses RS Tendo Fose RS MMR GTW I A P28 202 U_CCC Notor Type EAOL-M 77V/S AI Voltage Phoses ST Tendo Fose ST MMR GTW I A P28 202 U_CC Notor Type EAOL-M 77V/S AI Voltage Phoses TR Tendo Fose ST MMR GTW I O P28 202 U_CC Notor Type EAOL-M 77V/V AI Active Power (M) Potencia Rival (M) MMR GTW I O P28 202 U_CC Notor Type EAOL-M 77V/V AI Active Power (M) Potencia Rival (M) MMR GTW I		I			l i					AI					Δ.
A P28 202 LV_CDC Motor Type EA01-M 77VST AI Voltage Phases ST Tendo Fase ST MMR GTW I A P28 202 LV_CDC Motor Type EA01-M 77VTR AI Voltage Phases TR Tendo Fase TR MMR GTW I O P28 202 LV_CDC Motor Type EA01-M 77VW AI ALCHO		I			l i					AI					Δ.
A P28 202 LU_CDC Motor Type EAOL-M 77VTR AI Violage Phoses TR Tendo Fose TR MMR GTW I 0 P28 202 LU_CDC Motor Type EAOL-M 77W AI Active Power (M) Potencia Alvia (M) MMR GTW I	· ·				l i					Al		=			Ä
0 P28 202 UCCC Motor Type BAD1-M 77W AI Active Power (M) Potencia Also (M) MMR GTW I	- I	I			i i					Al					A
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	· · · · · · · · · · · · · · · · · · ·	I	¥	P	+4	GTW	MMR			<del>Di</del>					- €
0 P28 Z02 LV CDC Motor Tuce EACL-M												LV CDC Motor Type EAD1-M	202	P28	

									GTW: Gatewoy SSD: Varioble Speed of tive III. intelligent Relicy MMR: Publiforcitor Microprocessed Relicy TGCP: Tuthine Generator Control HMI: Human-Hachine Interface. CSS: Control & Sofety System UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NP=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P29	203	LV_CDC Motor Type EA02-M	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	w	N	γ		Y
6	P29-	203	LV_CDC Motor Type EA02 M	52C	<del>DOd</del>	Circuit Breaker Closing Order	Disjuntor Ordem Fecher	GTW	MMR	<del>id</del>	P			¥
0	P29	203	LV_CDC Motor Type EA02-M	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P29	203	LV_CDC Motor Type EA02-M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P29	203	LV_CDC Motor Type EA02-M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P29	203	LV_CDC Motor Type EA02-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P29	203	LV_CDC Motor Type EA02-M	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P29	203	LV_CDC Motor Type EA02-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P29	203	LV_CDC Motor Type EA02-M	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P29	203	LV_CDC Motor Type EA02-M	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
C	P29	203	LV_CDC Motor Type EA02-M	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definida)	MMR	GTW	1	P	Y		Y
0	P29	203	LV_CDC Motor Type EA02-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
C	P29	203	LV_CDC Motor Type EA02-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P29	203	LV_CDC Motor Type EA02-M	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
C	P29	203	LV_CDC Motor Type EA02-M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P		1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1			1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1			1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1			1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77VRS	Al	Voltage Phases RS	Tensão Fose RS	MMR	GTW	1			1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1			1	Y
A	P29	203	LV_CDC Motor Type EA02-M	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1			1	Y
0	P29	203	LV_CDC Motor Type EA02-M	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1			1	Y
€	P29-	203	LV_CDC Motor Type EA02 M	SXGP	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	<del>td</del>	P	¥		¥
0	P29	203	LV_CDC Motor Type EA02-M											

								Μ	GTW. Gateway  STW. Gateway  STW. Gateway  STW. Solvanide Speed Orive  Resp.  MR. Multifaction flow (recoprocesed Relay)  RGCP: Turbrise Generator Control  1801 - Harman-Machine Interface.  CSS: Control & Solvey System  STW.C: Syshmonizer  U.CP: Linit. Control Pone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P35	204	LV_CDC Motor Subsea Type EA02-M	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	52C	DO	Circuit Breaker Closing Order	Disjuntar - Ordem Fechar	GTW	MMR	1	P			Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P			Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	P	Y	Y	Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	1	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	P	Y	Y	Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	1	P	Y	Y	Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	1	P	Y		Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75CNT	DI	Circuit Breaker Connected	Disjuntar Conectado	MMR	GTW	T.	P			Y
A	P35	204	LV_CDC Motor Type EA02-M	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	T.				Y
A	P35	204	LV_CDC Motor Type EA02-M	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	T.				Y
A	P35	204	LV_CDC Motor Type EA02-M	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1				Y
€	P35	204	LV_CDC Motor Subsea Type EA02 M	5XGF	<del>Di</del>	Protection Ground Fault (UAS)	Proteção Fugo a Terra (UAS)	MMR	GTW	<del>ld</del>	P	¥		¥
0	P35	204	LV_CDC Motor Subsea Type EA02-M											

								ı	PMS. Flower Monogenest System CTM: Glother CTM: Glother VSD Noricible Speed Onlive R: Intelligent Systems PMMP. Multifloricible Microprocessor PMMP. Multifloricible Microprocessor Pomel Pomel H4H: Human-Mochine Intelligent CSS: Corto & Sofety System DNC by Systems USP: Unit Cortof Fore	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	css	нмі
0	P32	205	LV_CDC Motor Type EA04-M	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	γ		Y
C	P32	205	LV_CDC Motor Type EA04-M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P32	205	LV_CDC Motor Type EA04-M	52B	DI		Disjuntor - Status Fechado	MMR	GTW	1	P	Υ	Y	Y
0	P32	205	LV_CDC Motor Type EA04-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Υ	Y	Y
0	P32	205	LV_CDC Motor Type EA04-M	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P32	205	LV_CDC Motor Type EA04-M	27	DI		Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P32	205	LV_CDC Motor Type EA04-M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	P	Y	Y	Y
C	P32	205	LV_CDC Motor Type EA04-M	48_IS			Proteção 48 - Sequência Incompleta	MMR	GTW	1	P	Y		Y
C	P32	205	LV_CDC Motor Type EA04-M	49	DI		Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	P	Y	Y	Y
C	P32	205	LV_CDC Motor Type EA04-M	50BF	DI		Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P32	205	LV_CDC Motor Type EA04-M	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	1	P	Y	Y	Y
C	P32	205	LV_CDC Motor Type EA04-M	66_1	DI		Proteção 66 - Tempo Entre Partidas	MMR	GTW	1	P	Y		Y
0	P32	205	LV_CDC Motor Type EA04-M	69AV	DI		Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
C	P32	205	LV_CDC Motor Type EA04-M	75WD	DI		Disjuntor Extraído	MMR	GTW	1	P			Y
C	P32	205	LV_CDC Motor Type EA04-M	75TST	DI		Disjuntor - Posição Teste	MMR	GTW	1	P			Y
C	P32	205	LV_CDC Motor Type EA04-M	75CNT	DI		Disjuntor Conectado	MMR	GTW	1	P			Y
A	P32	205	LV_CDC Motor Type EA04-M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1				Y
A	P32	205	LV_CDC Motor Type EA04-M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1				Y
A	P32	205	LV_CDC Motor Type EA04-M	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1				Y
A	P32	205	LV_CDC Motor Type EA04-M	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1				Y
A	P32	205	LV_CDC Motor Type EA04-M	77VST	Al		Tensão Fase ST	MMR	GTW	1				Y
A	P32	205	LV_CDC Motor Type EA04-M	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1				Y
0	P32	205	LV_CDC Motor Type EA04-M	77W	Al		Potěncia Ativa (W)	MMR	GTW	1				Y
€	P32	205	LV_CDC Motor Type EA04 M	<del>SXGF</del>	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	+4	P	¥		¥
0	P32	205	LV_CDC Motor Type EA04-M											

									PMS: Power Management System GTM: Glottedy VSD Volnable Speed Grive VSD Volnable Speed Grive VSD Volnable Speed Grive VSD Volnable Speed Grive Relay TGCP: Turbine George Ponel HMI: Human-Hachine Interface CSS VSD VSD VSD VSD VSD VSD VSD VSD VSD V	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=Pr0Fibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	50	DI		Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1	P	Y		Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
С	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
Α	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1	1			Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1	1			Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CT	Al	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	1			Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1	1			Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1	1			Y
Α	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1	1			Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77W	Al	Active Power (W)	Potência Ativa (W)	MMR	GTW	1	1			Y
Α	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	1	P	Y	Y	Y
€	P33-	206	LV_CDC Hydraulic Panel Feeder Type EA04 NM	5XGF	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	<del>crw</del>	16	P	¥		¥ .
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM											

								,	VSD Vorlade Speed Trive VSD Vorlade Speed Trive VSD Vorlade Speed Trive VSD Vorlade Speed Trive VSD Vorlade Speed Trive Reby VSD VSD VSD VSD VSD VSD VSD VSD VSD VSD	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	Id	P	Y	Y	Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1	P	Y		Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	Р			Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	Р			Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P		1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CR	Al	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1			1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CS	Al	Current Phase S (A)	Corrente Fose S (A)	MMR	GTW	1			1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CT	Al	Current Phase T (A)	Corrente Fose T (A)	MMR	GTW	1			1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VRS	Al	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1			1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VST	Al	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1			1	Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VTR	Al	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1			1	Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1			1	Y
€	P34	207	LV_CDC Heater Panel Feeder Type EAG4 NM	5XGF	<del>DI</del>	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	<del>ld</del>	P	¥		¥
0	P34	207	LV CDC Heater Panel Feeder Type EA04-NM		1			1						

									PMS: Power Monogement System GTM: Gotted Toyle GTM: Gotted Toyle Volumble Speed Drive MMR: Multifanction Microprocessed Reby TGCP: Turbine Generator Control panel MMI: Honor Generator Control panel MMI: Hauger Generator Control SYNC: Sychnonizer UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P30	208	LV_CDC Feeder Type EA03-NM	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	1	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW		P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	1	P	Y	Y	Y
C	P30	208	LV_CDC Feeder Type EA03-NM	50BF	DI	Protection 50BF - Breaker Failure	Proteção SOBF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P30	208	LV_CDC Feeder Type EA03-NM	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	!	P	ν	Y	Y
C	P30	208	LV_CDC Feeder Type EA03-NM	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	1	P	Y		Y
0	P30	208	LV_CDC Feeder Type EA03-NM	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR MMR	GTW GTW	!	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído				P -			Υ
-	P30	208	LV_CDC Feeder Type EA03-NM	75TST 75CNT	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR MMR	GTW GTW	1	P P			Y V
	P30	208	LV_CDC Feeder Type EA03-NM		DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW					, ,
A .	P30 P30	208 208	LV_CDC Feeder Type EA03-NM	77CR	Al	Current Phase R (A) Current Phase S (A)	Corrente Fase R (A) Corrente Fase S (A)	MMR	GTW		1			, V
A	P30 P30	208	LV_CDC Feeder Type EA03-NM	77CS 77CT	Pil.			MMR	GTW	1	1			, v
A	P30 P30		LV_CDC Feeder Type EA03-NM LV_CDC Feeder Type EA03-NM		AL .	Current Phase T (A)	Corrente Fase T (A) Tensão Fase RS	MMR	GTW		l	l		Y V
A	P30 P30	208 208		77VRS	Pil.	Voltage Phases RS	Tensão Fase ST	MMR	GTW	1	1			, v
A	P30 P30		LV_CDC Feeder Type EA03-NM LV_CDC Feeder Type EA03-NM	77VST 77VTR	Pil.	Voltage Phases ST	Tensão Fose TR	MMR	GTW	1	1			, v
Α .	P30 P30	208 208	LV_CDC Feeder Type EA03-NM LV_CDC Feeder Type EA03-NM	77VIK 77W	Pil.	Voltage Phases TR Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1	1			, v
	P30 P30	208	LV_CDC Feeder Type EA03-NM LV_CDC Feeder Type EA03-NM	77W 52C	DO.	Active Power (W) Circuit Breaker Closing Order	Potencia Ativa (W) Disjuntor - Ordem Fechar	GTW	MMR			v		, ,
-	P30	208	LV_CDC Feeder Type EAG3-NM  LV_CDC Feeder Type EAG3-NM	520	00	Circuit Breaker Closing Order Circuit Breaker Opening Order	Disjuntor - Ordem Pecnar Disjuntor - Ordem Abrir	GTW	MMR			, v		·
	P30	208	LV_CDC Feeder Type EAG3-NM	52C	Dod	Circuit Breaker Opening Order  Circuit Breaker Closing Order	Disjuntar - Ordern Abrill Disjuntar - Ordern Fechar	GTW	MMP.	Id.	<u> </u>	'		ż.
ءَ ا	P20	208	LV CDC Feeder Type EAG3 NM	5XGF	DI.	Protection Ground Foult (UAS)	Proteção Fugo a Terra (UAS)	MMD	CTW CTW	14		<u>u</u>		· ·
1	130	200		37931	Γ	Commence of work (APPM)	· · · · · · · · · · · · · · · · · · ·		5	10	· .	· .		,
0	P30	208	LV_CDC Feeder Type EA03-NM											

								1	GTW: Gateway VSQ Avariote Speed Orive WSQ Avariote Speed Orive WSQ Avariote Speed Orive WSQ Avariote Speed Orive WSQ Avariote Speed WSQ Avariote S	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P36	209	LV_CDC MCC Feeder Type F2	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	γ		Υ
С	P36	209	LV_CDC MCC Feeder Type F2	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	1	P			Y
C	P36	209	LV_CDC MCC Feeder Type F2	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	1	P			Y
C	P36	209	LV_CDC MCC Feeder Type F2	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	1	P			Y
C	P36	209	LV_CDC MCC Feeder Type F2	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	1	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	1	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	1	P	γ	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	1	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	1	P	Y	Y	Y
C	P36	209	LV_CDC MCC Feeder Type F2	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	1	P	Y		Y
C	P36	209	LV_CDC MCC Feeder Type F2	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	1	P	Y	Y	Y
C	P36	209	LV_CDC MCC Feeder Type F2	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1	P	Y		Y
C	P36	209	LV_CDC MCC Feeder Type F2	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	1	P	Y		Y
0	P36	209	LV_CDC MCC Feeder Type F2	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	1	P	Y		Y
0	P36	209	LV_CDC MCC Feeder Type F2	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	1	P	Y		Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	1	l			Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CS	Al	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	1	l			Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	1	1			Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	1	1			Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	1	1			Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	1	1			Y
0	P36	209	LV_CDC MCC Feeder Type F2	77W	Al	Active Power (W)	Potěncia Ativa (W)	MMR	GTW	1	1			Y
A	P36	209	LV_CDC MCC Feeder Type F2	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	1	P	Y	Y	Y
€	P36	209	LV_CDC MCC Feeder Type F2	5XGF	<del>DI</del>	Protection Ground Fault (UAS)	<del>Proteção Fuga a Terra (UAS)</del>	MMR	<del>GTW</del>	<del>ld</del>	₽	¥	¥	¥
0	P36	209	LV_CDC MCC Feeder Type F2											

									PMS: Power Management System GTW: Gateway VSD Variotible Speed Drive Ris Intelligent Relay MMR: Publifactional Microprocessed TGGP: Turbine Generator Control Panel HMI: Human-Machine Interface. CSS: Control Sofety System SYNC: Sychmonizer UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P48	210	LV Transformer Incomer 52.33	52_MAINT	DI	Switch position _ 1=maintenance / 0= operation_	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	Р		Υ	Y
0	P48	210	LV Transformer Incomer 52.33	5XGF		Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	UCP	GTW	W	P		Υ	Y
0	P48	210	LV Transformer Incomer 52.33	52C		Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	М	P			Y
0	P48	210	LV Transformer Incomer 52.33	520			Disjuntor - Ordem Abrir	GTW	IR	М	P			Y
0	P48	210	LV Transformer Incomer 52.33	52B			Disjuntor - Status Fechado	IR	GTW	М	P		Y	Y
D	P48	210	LV Transformer Incomer 52.33	75CNT			Circuito posição do disjuntor (1 = Ligado / 0 = Desligado)	IR	GTW	М	P		Y	Y
D	P48	210	LV Transformer Incomer 52.33	75CHG			Circuito estado do disjuntor da Primavera (1 = Cobrado / 0 = descarregada)	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	27			Proteção 27 - Subtensão	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	TRIP			Proteção Trip (UAS)	IR	GTW	М	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	69R			Pronto para Operação	IR	GTW	М	P		Y	Y
D	P48	210	LV Transformer Incomer 52.33	77CR			Corrente Fase R (A)	IR	GTW	М	P			Y
D	P48	210	LV Transformer Incomer 52.33	77CS			Corrente Fase S (A)	IR	GTW	М	P			Y
D	P48	210	LV Transformer Incomer 52.33	77CT			Corrente Fase T (A)	IR	GTW	М	P			Y
0	P48	210	LV Transformer Incomer 52.33	77W			Potěncia Ativa (kW)	IR	GTW	М	P			Y
D	P48	210	LV Transformer Incomer 52.33	77VRS			Tensão Fase RS (V)	IR	GTW	М	P			Y
D	P48	210	LV Transformer Incomer 52.33	77VST	AI		Tensão Fase ST (V)	IR	GTW	М	P			Y
D	P48	210	LV Transformer Incomer 52.33	77VTR	Al		Tensão Fase TR (V)	IR	GTW	М	P			Y
D.	P/48	210	LV Transformer Incomer 52.33	77V	Ald	Output VoltageIVI	Solda de Tensão (M)	<del>IR</del>	<del>CTW</del>	H	P			***
₽	P48	210	LV Transformer Incomer 52:33	77C	Ald	Current	Corrente	<del>IR</del>	GTW	H	P			***
Đ	P48	210	LV Transformer Incomer 52.33	5 <del>2A</del>	<del>Did</del>	Circuit Breaker Open Status	Disjunter Status Aberte	<del>IR</del>	<del>crw</del>	#	P		¥d	***
0	P48	210	LV Transformer Incomer 52.33											1
										l e		l l		

								1	GTW: Gateway  VSD Avariable Speed Orive  It intelligent Reby  MMM: Multiforcina Microprocessed  Reby  TGCP: Turbine Generator Control  HMH: Human-Hochine Interface  CSS Control & Gately System  SNIC: Sychronolaer  UCP: Unit Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
D	P45	211	LV VSD Pump Type 1	42C_0	DO	Start order (1= Start / 0= Stop)	Iniciar Ordem (1= Iniciar / 0 =Parar)	GTW	VSD	М	Р	N	Y	¥
D	P45	211	LV VSD Pump Type 1	33R	DI	Remote/Local selection (1 = Remote / 0 = Local)	Seleção Remoto/Local (1=Remoto/1 = Local)	VSD	GTW	M	P	N	Y	Y
D	P45	211	LV VSD Pump Type 1	AL	DI	VSD Alarm (0 = no alarm; 1 = alarm)	VSD Alarm (0= nenhuma Alarm / 1= Alarm)	VSD	GTW	M	P	N	Y	Y
D	P45	211	LV VSD Pump Type 1	27	DI	Under Voltage (1 = under voltage Alarm)	Subtensão (Alarm Subtensão)	VSD	GTW	М	P	N	Y	Y
D	P45	211	LV VSD Pump Type 1	FLT	DI	VSD Fault ( 1 = Fault / 0 = no Fault)	VSD - Falha (0= nenhuma falha / 1=falha)	VSD	GTW	М	P	N	Y	Y
D	P45	211	LV VSD Pump Type 1	42B	DI	Motor running (1= running / 0= Stopped)	Motor Funcionando ( 1= Funcionando / 0= Parar)	VSD	GTW	М	P	N	Y	Y
- 6	P45	211	LV VSD Pump Type 1	77SP_REF	Aod	Motor Speed Reference (to VSD)	Referência Velocidade Motor ( to VSD)	GTW	VSD	<del>11d</del>		**	¥	1
0	P45	211	LV VSD Pump Type 1	77SP_M	Al	Motor Speed	Velocidade Motor	VSD	GTW	М		N	Y	1 *
0	P45	211	LV VSD Pump Type 1	77C	Al	Motor Current × 10	Corrente do Motor x 10	VSD	GTW	М		N		Y
D	P45	211	LV VSD Pump Type 1	77TRQ	Al	Motor Torque x 10	Torque do motor x 10	VSD	GTW	М		N		Y
D	P45	211	LV VSD Pump Type 1	77F	Al	Motor Frequency x 10	Freqüência do motor x 10	VSD	GTW	М		N		Y
D	P45	211	LV VSD Pump Type 1	77PF	Al	Power Factor x 100	Fator de Potência x 100	VSD	GTW	М		N		Y
D	P45	211	LV VSD Pump Type 1	77CA	Al	Current Alarm value	Valor do Alarme atual	VSD	GTW	М		N	1	Y
D	P45	211	LV VSD Pump Type 1	77CF	Al	Current Failure value	Valor do Falha atual	VSD	GTW	M		N		Y
Ð	P45	211	LV VSD Pump Type 1	77¥	Ald	VSD Voltage	Tensão VSD	VSD-	GTW	<del>11d</del>		*	1	1 *
Đ	P45	211	LV VSD Pump Type 1	TRIP	<del>Did</del>	VSD Failure	<del>VSD Falha</del>	VSD.	GTW	<del>14d</del>	P	*	¥	1 *
Ð	P45	211	LV VSD Pump Type 1	69R	<del>Did</del>	VSD Ready to start	VSD Prente para Partir	VSD-	GTW	<del>14d</del>	P	*	¥	1 *
D.	P45	211	LV VSD Pump Type 1	ENABLE	Did	Enable (0 = not enable; 1 = enable)		VSD	GTW	Md	2	N	¥	¥
Đ	P45	211	LV VSD Pump Type 1	RW_FW	<del>Did</del>	Motor direction (0 = reverse, 1 forward)		VSD	GTW	<del>11d</del>	P	*	¥	1 *
Đ	P45	211	LV VSD Pump Type 1	<del>.106</del>	<del>Did</del>	Jog (0 = not active; 1 = active)		VSD.	GTW	<del>11d</del>	P	*	¥	1 *
Đ	P45	211	LV VSD Pump Type 1	AUTO_PID	<del>Did</del>	Automatic (PID) (0 = not active; 1 = active)		VSD	<del>GTW</del>	<del>14d</del>	ρ.	*	¥	i *
0	P45	211	LV VSD Pump Type 1											<u> </u>

									PMS: Flow Monogement System GTM: Gate Grow GTM: Gate Grow VSD: Norticité speed Onive VSD: Norticité speed Onive Recty Flow Mill Millord Monogrossed Recty TGCP: Turbins Generator Control Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Postel Hell: Harris Harris Harris Harris Harris Hell: Harris Harris Harris Harris Harris Hell: Harris Harris Harris Harris Harris Hell: Harris Harris Harris Harris Harris Hell: Harris	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive PP=Positive Pulse PPM=Positive Pulse PPM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	74WD	DI		Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	P	Y		1
C	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	50GS	DI		Proteção 50GS - Fuga a Terra	MMR	GTW	Id	P	Y		Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	52B	DI		Disjuntor - Status Fechado	MMR	GTW	1	Р	Y		Y Y
A	P52	212 212	LV_CDC Feeder Type EA03-NM (Type2)	52A TRID			Disjuntor - Status Aberto	MMR	GTW GTW	!	P	Y		i Y
Α .	P52		LV_CDC Feeder Type EA03-NM (Type2)	TRIP	DI		Proteção Trip (UAS)	MMR	GTW	!	P .	Υ		i ,
C	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	21	DI		Proteção 27 - Subtensão	MMR	GIW GTW	!	P .	Υ		i
-	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	50BF	DI		Proteção 50BF - Falha no Disjuntor	MMR MMR	GTW	l :	P	Y		1
-	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	50	DI		Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	1 :	P	Y		1
C	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	51	DI		51- Sobre-corrente temporizada (tempo definido)			· '	P	Y		1 '
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	69AV	DI		Disjuntor Disponível (Pronto)	MMR MMR	GTW GTW	!	P	Y		1 Y
С	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	75WD			Disjuntor Extraído			!	P .			1
C	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	75TST			Disjuntor - Posição Teste	MMR	GTW		P			ı Y
С	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	75CNT			Disjuntor Conectado	MMR	GTW	!	Р			1 Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77CR	Al		Corrente Fase R (A)	MMR	GTW GTW	1				Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77CS	Al		Corrente Fase S (A)	MMR						Y .
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77CT			Corrente Fase T (A)	MMR	GTW					Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77VRS			Tensão Fose RS	MMR	GTW					Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77VST			Tensão Fase ST	MMR	GTW	1				Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77VTR			Tensão Fase TR	MMR	GTW					Y
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)	77W			Potěncia Ativa (W)	MMR	GTW		P	Y	l	Y
	P52 P52	212	LV_CDC Feeder Type EA03-NM (Type2)	52C		Circuit Breaker Closing Order	Disjuntor - Ordem Fechar Disjuntor - Ordem Abrir	GTW	MMR MMR	1	P	Y	Y V	1
c	P32 052	212 212	LV_CDC Feeder Type EA03-NM (Type2) LV_CDC Feeder Type EA03-NM (Type2)	520 5xGE	DU DU	Circuit Breaker Opening Order Protection Ground Fault (UAS)	Disjuntor - Ordem Abnr Protecijo Eugo o Terro (UAS)	MMR	GTW	ld	,	v v	ľ	1 : 1
-			1	<del></del>	_	Protection and the torogen	<del>- Control Control Control</del>		4.00		-	-		
A	P52	212	LV_CDC Feeder Type EA03-NM (Type2)											<u> </u>

									PMS: Rower Management System CTW Gatteway VSD Wortable Speed Drive VSD Wortable Speed Drive Rower Reby TCCP: Turbine Generator Control Rose HIM Hundron Land Social HIM Hundron Speed SST Control Sciency Stem SYNC: Systemonizer UCP: Units Control Pane	I=IEC61B50 W=wired M=Modbus TCP S=Modbus RS4B5 P=ProFibus Z=Wired with synchroniser	Pupositive Nunegative PP-Positive Pulse PM-Positive Maintained NP-Negative Pulse NM-Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
D	P42	300	LV_UC Panel Status	52_OP (exchanged from		MCC in Operation	CCM em Operação	IR	GTW	Р	P	N		Y
D	P42	300	LV_UC Panel Status	52_MAINT2 (exchanged			CCM em Manutenção	IR	GTW	P	P	N		Y
0	P42	300		5XGF_AL			Proteção Fuga à terra (UAS) - Pré Alarme	IR	GTW	Р	P	N		Y
0	P42	300		5XGF_TRIP			Proteção Fuga à terra (UAS) - Alarme	IR	GTW	P	P	N		Y
A	P42	300	LV_UC Panel Status	52_MAINT	DI	Switch position _ 1=maintenance / 0= operation _	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	N	Y	Y
В	P42	300	LV_UC Panel Status	27_CTR1			Subtensão Barramento F1/F2	UCP	GTW	W	P	N	Y	Y
В	P42	300	LV_UC Panel Status	27_CTR2	DI	Undervoltage Bus Bar F3/F4	Subtensão Barramento F3/F4	UCP	GTW	W	P	N	Y	Y
A	P42	300	LV_UC Panel Status	INS_FTA	DI	Insulation failure - Bus A	Falha de isolação - Barramento A	UCP	GTW	w	P	N	Y	Y
A	P42	300	LV_UC Panel Status	INS_FTB	DI	Insulation failure - Bus B	Falha de isolação - Barramento B	UCP	GTW	W	P	N	Y	Y
Ð	P42	300	LV_UC Panel Status	EMCY_STP	<del>Did</del>	Local Emergency Stop	Parada de Emergência - Comando Local-	<del>IR</del>	GTW	<del>Pd</del>	P	N		¥
1 1														
	P42	300	LV UC Panel Status											

								ı	PMS: Power Monogement System GFW: Gotevory VS: Overoble Speed Drive IR: Intelligent Reby) MMH: SHOP Speed Drive MMH: SHOP Speed Speed MMH: SHOP Speed Speed MMH: SHOP Speed MMH: SHOP Speed MMH: Shop Speed MMH: Human-Machine Interface SSMC: Sychnronase UCP: Unit Control Pone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=positive Pulse PM=positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HPII
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	css	нмі
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	P	PP	N	Υ	Y (Only for Type EA-02-M and EA-03-M
0	P1 & P2 & P7 & P6 & P10		LV MCC Motor type 1	520		Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	PP	N	Y	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	52B			Disjuntor - Status Fechado	IR	GTW	Р	P	N	Y	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IP.	GTW	P	P	N	Y	Y
								115						
0	P1 & P2 & P7 & P6 & P10		LV MCC Motor type 1	TRIP	DI		Proteção Trip (UAS)	IR	GTW	P	Р	N	Υ	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	69AV	DI DI	Circuit Breaker Available (Ready)	Proteção Trip (UAS) Disjuntor Disponível (Pronto)	IR IR	GTW GTW	P P	P P	N N	Y	Y Y
0 0	P1 & P2 & P7 & P6 & P10 P1 & P2 & P7 & P6 & P10	301 301	LV MCC Motor type 1 LV MCC Motor type 1		DI DI	Circuit Breaker Available (Ready) Drawer in test position	Proteção Trip (UAS) Disjuntor Disponível (Pronto) Gaveta em Posição Teste	IR IR IR	GTW GTW GTW	P P P	P P P	N N	Y	Y Y Y
0 0	P1 & P2 & P7 & P6 & P10	301 301	LV MCC Motor type 1	69AV	DI DI	Circuit Breaker Available (Ready) Drawer in test position	Proteção Trip (UAS) Disjuntor Disponível (Pronto)	IR IR IR IR	GTW GTW	P P P	P P P	N N	Y	Y Y Y

								1	PMS: Power Monogenent System GTM: Goleway VSD Vanoble Speed Orive R: Intelligent Reby MMH: Hulliand Selection of the Composed	I=IEC61850 W=w/red M=Modbus TCP S=Modbus RS485 P=Profibus Z=W/red with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HPII
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Trodução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P3	302	LV MCC Motor type 2	52C	DO	Circuit Breaker Closing Order	Disjuntar - Ordem Fechar	GTW	IR	Р	PP	N	Υ	Y
0	P3	302	LV MCC Motor type 2	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	PP	N	Y	Y
0	P3	302	LV MCC Motor type 2	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N	Y	Y
0	P3	302	LV MCC Motor type 2	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N	Y	Y
0	P3	302	LV MCC Motor type 2	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N	Y	Y
0	P3	302	LV MCC Motor type 2	69AV			Disjuntor Disponível (Pronto)	IR	GTW	P	P	N	Y	Y
0	P3	302	LV MCC Motor type 2	75TST	DI	Drawer in test position	Gaveta em Posição Teste	IR	GTW	P	P		1	Y
0	P3	302	LV MCC Motor type 2	77C	Al	Average Current (A)	Corrente Média (A)	IR	GTW	P		N		Y
0	P3	302	LV MCC Motor type 2	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	IR	GTW	P	P	N	1	Y
0	P3	302	LV MCC Motor type 2											

								ı	PMS: Power Monogement System GTW: Goleway VSD Varioble Speed Drive IR: Intelligent Relay MMR: Hulliforcation Microprocessed TOCP: Turbule Generator Control Bonel I-Human-Mochine Interface. CSS: Cortical & Soflety System Society System UCP: Unit Control Fone UCP: Unit Control Fone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HPII
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
А	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	Р	P	N	Υ	Y
	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	52A			Disjuntor - Status Aberto	IR	GTW	P	P	N	Υ	Y
	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	TRIP	DI		Proteção Trip (UAS)	IR	GTW	P	P	N		Y
	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	69AV	DI		Disjuntor Disponível (Pronto)	IR	GTW	P	P	N	1	Y
	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	75TST			Gaveta em Posição Teste	IR	GTW	P	P		1	Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	77C	AI	Average Current (A)	Corrente Média (A)	IR	GTW	P		N		Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3											

								ı	PMS: Power Monagement System GTW: Gateway VSD Varioble Speed Drive III: Intelligent Rebyy MMH: Hulliford Ending MMH: Hulliford Ending From State From Stat	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P5	304	LV MCC type EA03	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	PP	N		Y
A	P5	304	LV MCC type EA03	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N	Y	Y
0	P5	304	LV MCC type EA03	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N	Y	Y
0	P5	304	LV MCC type EA03	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N		Y
0	P5	304	LV MCC type EA03	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N		Y
0	P5	304	LV MCC type EA03	75TST	DI	Drower in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0	P5	304	LV MCC type EA03	77C	Al	Average Current (A)	Corrente Média (A)	IR	GTW	P		N		Y
0	P5	304	LV MCC type EA03											

								,	PMS: Power Management System GTW: Gateway VSD Varioble Speed Drive Bt: Intelligent Reby MMH. Hulliforcation Microprocessed TGCP: Tutube Generator Control Ponel HMI: Human-Hochien Interface. CSS: Control & Sofley System SWC: Systemoner UCP: Unit Control Pone	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative P=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= dota time stamped at source	Y= data exchanged With CSS	V= data exchanged with HPII
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
Rev 0			Item Description  LV Turbogenerator Hydraulic Start-up Pump Motor	I/O Type 528	I/O Nature	I/O Description  Circuit Breaker Closed Status	Tradução em português Disjuntor - Status Fechado	From IR	GTW	I/O Origin	I/O Logic	Time Stamp	CSS	HMI Y
Rev 0 D	Item N°	Item N°	· ·	I/O Type 52B SS_42B	DI	Circuit Breaker Closed Status		From IR IR	GTW GTW	I/O Origin P P	I/O Logic P P	Time Stamp  N N	CSS	HMI Y Y
Rev 0 D D	P13 P13 P13 P13	305 305 305 305	LV Turbogenerator Hydroulic Start-up Pump Motor LV Turbogenerator Hydroulic Start-up Pump Motor LV Turbogenerator Hydroulic Start-up Pump Motor	52B SS_42B SS_42A	DI DI	Circuit Breaker Closed Status Soft starter - motor running Soft Starter - motor stopped	Disjuntor - Status Fechado Soft Starters - Motor Funcionando Soft Starters - Parado	From IR IR IR	GTW GTW GTW	I/O Origin P P	I/O Logic P P	Time Stamp  N  N  N	CSS	HMI Y Y Y
Rev O D D	P13 P13	305 305	LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor	52B SS_42B	DI DI	Circuit Breaker Closed Status Soft starter - motor running Soft Starter - motor stopped	Disjuntor - Status Fechado Soft Starters - Motor Funcionando	From IR IR IR IR	GTW GTW GTW GTW	I/O Origin P P P P	VO Logic P P P	Time Stamp  N N N N	css	<b>нмі</b> У У У
Rev 0 D D D O	P13 P13 P13 P13	305 305 305 305	LV Turbogenerator Hydroulic Start-up Pump Motor LV Turbogenerator Hydroulic Start-up Pump Motor LV Turbogenerator Hydroulic Start-up Pump Motor	52B SS_42B SS_42A	DI DI DI	Gircuit Breeker Closed Status Soft stater - mater stapped Soft Stater - motor stapped Soft Stater - motor stapped Soft Stater Protection Actuated	Disjuntor - Status Fechado Soft Starters - Motor Funcionando Soft Starters - Parado	From IR IR IR IR IR IR	GTW GTW GTW	I/O Origin P P P P P	VO Logic P P P P	Time Stamp  N N N N N N	CSS	HMI Y Y Y Y Y Y Y
Rev O D D D O O	P13 P13 P13 P13 P13	305 305 305 305 305 305	LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor	52B SS_42B SS_42A	DI DI DI DI	Circuit Breeker Closed Status Sost staters - motor nunning Sost Staters - motor stapped Sost Staters - motor stapped Sost Staters - motor stapped Sost Staters Protection Actuated Circuit Breeker Open Status	Disjuntor - Status Fechado Saft States - Motor Funcionando Soft States - Parado Soft States - Proteção acionado	From  IR  IR  IR  IR  IR  IR  IR	GTW GTW GTW GTW GTW GTW	I/O Origin P P P P P	I/O Logic P P P P P	Time Stamp  N N N N N N	CSS	HMI
Rev O D D O O	Item N° P13 P13 P13 P13 P13 P13	305 305 305 305 305 305 305	LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor	52B SS_42B SS_42A SS_TRIP 52A	DI DI DI DI	Circuit Breeker Closed Stotus Sost starter - motor running Sost Starter - motor stopped Soft Starter - motor stopped Soft Starter - motor Stopped Circuit Breeker Open Status Drower in test position	Ciguntor - Status Fechado Soft States - Motor Funcionando Soft States - Notor Funcionando Soft States - Potogo Sof	From  IR  IR  IR  IR  IR  IR  IR  IR	GTW GTW GTW GTW GTW GTW GTW	I/O Origin P P P P P P	VO Logic P P P P P P	Time Stamp  N N N N N N N N N N N N	CSS	
Rev O D D O O	P13 P13 P13 P13 P13 P13 P13 P13 P13	305 305 305 305 305 305 305 305	LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor LV Turbagenerator Hydraulic Start-up Pump Motor	52B SS_42B SS_42A SS_TRIP 52A 75TST	DI DI DI DI DI	Circuit Breeker Closed Status Sost staters - motor nunning Sost staters - motor stapped Sost Staters - motor stapped Sost Staters - motor stapped Sost Staters - motor stapped Cricuit Breeker Composition Actuated Circuit Breeker Composition Circuit Breeker Annalistate (Ready) Circuit Breeker Annalistate (Ready)	Disjuntor - Status Fechado Saft Startes - Motor Funcionando Saft Startes - Peder Funcionando Saft Startes - Peder Agodo Saft Startes - Porteção acionada Disjuntor - Status Alberto Goveta em Posição Teste	From IR IR IR IR IR IR IR IR IR IR IR IR IR	GTW GTW GTW GTW GTW GTW GTW	I/O Origin P P P P P P P P P P P P P P P P P P P	VO Logic P P P P P P P P P P P P P P P P P P P	Time Stamp  N N N N N N N N N N	CSS	HH1   Y   Y   Y   Y   Y   Y   Y   Y   Y
0 D D O O O O	P13 P13 P13 P13 P13 P13 P13 P13 P13 P13	305 305 305 305 305 305 305 305 305	LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor LV Turbogenerator Hydraulic Start-up Pump Motor	52B SS_42B SS_42A SS_TRIP 52A 75TST 69AV	DI DI DI DI DI DI	Circuit Breeker Closed Status Sost staters - motor nunning Sost staters - motor stapped Sost Staters - motor stapped Sost Staters - motor stapped Sost Staters - motor stapped Cricuit Breeker Composition Actuated Circuit Breeker Composition Circuit Breeker Annalistate (Ready) Circuit Breeker Annalistate (Ready)	Criguntor - Stotus Fechado Soft Stantes - Motor Funcionando Soft Stantes - Potor Funcionando Soft Stanter - Potoregão adoinado Soft Stanter - Potoregão adoinado Diguntor - Stotus Alberta Goveta em Posição Teste Diguntor Osforte (Promta)	From IR IR IR IR IR IR IR IR IR IR IR IR IR	GTW GTW GTW GTW GTW GTW GTW	I/O Origin P P P P P P P P P P P P P P P P P P P	VO Logic P P P P P P	Time Stamp  N N N N N N N N N N N N N N N N N N	CSS	7841 V V V V V V

								ı	PMS: Power Monogement System GTW: Galeway VSD Varioble Speed Drive Rt: Intelligent Rebyy MMH: Hullingth Reby Febry	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P37	306	LV_UC Type EA04	52C	DO	Circuit Breaker Closing Order	Disjuntar - Ordem Fechar	GTW	IR	Р	P			Υ
0	P37	306	LV_UC Type EA04	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	P			Y
0	P37		LV_UC Type EA04	52B		Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	Р	N	Y	Y
0	P37	306	LV_UC Type EA04	69AV		Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	Р	N		Y
0	P37	306	LV_UC Type EA04	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N	Y	Y
A	P37		LV_UC Type EA04	33L			Seleção Local/Remoto (1 = Local/0=Remoto)	IR	GTW	P	P			Y
A	P37	306	LV_UC Type EA04	EMCY_STP	DI	Local Emergency Stop	Parada de Emergência - Comando Local	IR	GTW	P	P			Y
C	P37	306	LV_UC Type EA04	77C	Al	Average Current (A)	Corrente Média (A)	IR	GTW	P	P			Y

	Customer	System							PMS - Rower Monagement System GTW - Galleway GTW - Galleway GTW - Galleway GTW - Galleway GTW -	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative Py=Positive Pulse PM=Positive Maintaned N=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Item N°	Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P46	307	LV VSD Pump Type 2	5XGF	DI	Protection Ground Fault	Proteção Fuga a Terra	UCP	GTW	Р	P	N		Y
D	P46	307	LV VSD Pump Type 2	49			Proteção Trip (UAS) - 49 - Sobrecarga do Motor (72)							
D	P46	307	LV VSD Pump Type 2	46			Proteção Trip (UAS) - 46 - Desbalançeamento de Corrente no motor(76)	l						
D	P46	307	LV VSD Pump Type 2	49RTD			Proteção Trip (UAS) - 49RTD - (Sobreaquecimento do Motor (78)						1	
□	P46	307	LV VSD Pump Type 2	52			Motor Funcionando ( 1= Funcionando / 0= Parar)	UCP	GTW	Pd	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2	69R			Pronto Para Partir	UCP	GTW	Р	P	N	1	Y
0	P46	307		74UAM			Mau funcionamento Unidade Alarme (UAM)	UCP	GTW	Р	P	N	Y	Y
С	P46	307	LV VSD Pump Type 2	77V			Saída de Tensão (V)	UCP	GTW	Р	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2	77W			Potência Ativa (W)	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	77C	Al		Corrente Média (A)	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	77F			Frequência (Hz)	UCP	GTW	P	P	N	Y	Y
Đ	P46	307	LV VSD Pump Type 2	52LI	Did	Low Insulation (Ground Fault)	Baixa Isalação (Fuga à Terra)	<del>UCP</del>	GTW	<del>Pd</del>	P	*	<del>Vd</del>	<del>Vd</del>
0	P46	307	LV VSD Pump Type 2											

								,	PMS : Power Management System GTW : Gateway VSD : Noroticle Speed Orive VSD : Noroticle Speed Orive VSD : Noroticle Speed Orive VSD : Noroticle Speed Orive Response Response See Speed Orive Panel Hell : Human - Mechanic Control See Speed Orive SSD : Noroticle Speed SSD : Speed Orive SSD : Speed Oriv	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
A	P41	308	LV_MCC Incomer CB (F650 + P487)	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P		Υ	Υ
0	P41	308	LV_MCC Incomer CB (F650 + P487)	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P		Y	Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	IR	GTW	P	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	IR	GTW	P	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	IR	GTW	P	P			Y
0	P41	308	LV_MCC Incomer CB (F650 + P487)	75WD			Disjuntor Extraído	IR	GTW	P	P			Y
0	P41	308	LV_MCC Incomer CB (F650 + P487)	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	IR	GTW	P	P			Y
C	P41	308	LV_MCC Incomer CB (F650 + P487)	75CNT	DI		Disjuntor Conectado	IR	GTW	P	P			Y
0	P41	308	LV_MCC Incomer CB (F650 + P487)	77C	Al		Corrente Média (A)	IR	GTW	Р				Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	52C			Disjuntor - Ordem Fechar	IR	GTW	Р	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	520	DO		Disjuntor - Ordem Abrir	IR	GTW	Р				Y
₽	P41	308	LV_MCC Incomer CB (F650 + P487)	5-2	Did	Circuit Breaker status (1 = CB Closed_ 0 = Opened)	Disjunctor Status ( 1= Fechado _9-Aberto)	<del>IR</del>	GTW	Wd				i
0	P41	308	LV_MCC Incomer CB (F650 + P487)											

								,	PMS: Power Monogement System GTW: Gateway VSD Varioble Speed Drive III: Intelligent Reby) MMM: Hulliforction Microprocessed GTGP: Tuthole Greenfort Control Ponel I-BMI: Human-Mochile Interface. CSS: Control & Sofley System SMC: SystemOster UCP: Unit Control Fane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	Papositive Nanegotive PPa-Positive Pulse PMa-Positive Mointonned NPa-Negotive Pulse NH-Negotive Mointonned	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P9	309	LV Feeder type EA02-NM	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	Р	PP	N	Υ	
0	P9	309	LV Feeder type EA02-NM	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	PP	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	Р	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	Р	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	69AV	DI		Disjuntor Disponível (Pronto)	IR	GTW	P	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	75TST	DI	Drower in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0	P9	309	LV Feeder type EA02-NM	77C	AI	Average Current (A)	Corrente Média (A)	IR	GTW	Р		N		Y
0	P9	309	LV Feeder type EA02-NM	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	IR	GTW	P	P	N		Y
0	P9	309	LV Feeder type EA02-NM											



								,	PMS Flower Management System GTW Gateway VSD Narroide Speed Drive R: Intelligent Reprosessed Reflection Reprocessed Reflection Reprocessed Reflection Reprocessed Reflection Ref	I=IEC61850 W-wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P-positive N-negative PP-Positive Pulse PM-positive Maintained NP-Negative Pulse Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
A	P50	310	LV_UC/EA04/CSS_15	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	Р	P		Υ	Y
A	P50	310	LV_UC/EA04/CSS_15	TRIP			Proteção Trip (UAS)	IR	GTW	P	P		Y	Y
A	P50	310	LV_UC/EA04/CSS_15	EMCY_STP			Parada de Emergência - Comando Local	IR	GTW	P	P			Y
Ė	P50	310	LV_UC/EA04/CSS_15	77C			Corrente Média (A)	IR	GTW	P	P			Y
Ð	P50	310	LV_UC/EA04/CSS_15	<del>520</del>			<del>Disjunter Ordem Fechar</del>	<del>IR</del>	GTW	<del>Pd</del>	P			¥
Ф	P50	310	LV_UC/EA04/CSS_15	520	<del>DOd</del>	Circuit Breaker Opening Order	<del>Disjuntor Ordem Abrir</del>	<del>IR</del>	GTW	<del>Pd</del>	P			¥
0	P50	310	LV_UC/EA04/CSS_15											

								ı	PMS Power Management System GTW-Gateway VSD Verstoles Speed Drive VSD Verstoles Speed Drive VSD Verstoles Speed Drive Reby TGCP Turbine Generator Control Panel 1941: Human-Mochanie Interface. CSS: Control & Safety System UCP: Unit Control Fane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z= Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	P49			STG1			Estágio 1 - Ligado	IR	GTW	W	Р		Υ	Y
0	P49	400		STG2		STAGE 2 ON	Estágio 2 - Ligado	IR	GTW	W	P		Y	Y
0	P49	400		STG3		STAGE 3 ON	Estágio 3 - Ligado	IR	GTW	W	P	1	Y	Y
0	P49	400	LV Regeneration Gas Heater  LV Regeneration Gas Heater	STG4	DI	STAGE 4 ON	Estágio 4 - Ligado	IR	GTW	w	Р		Y	Y
U	PRE	400	LV Regeneration Gas Heater											

								ı	PMS: Power Management System GTW: Gateway VSD Varioble Speed Drive III: Intelligent Reby WMR: Hullidinaction Hicroprocessed TOGO: Turbine Generator Control Panel I-BH: Human-Machine Interface. CSS: Control & Sofety System SWK: Systemoster UCP: Linkt Control Pane	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	Papositive Nanegative PPa-Positive Positive Maintained NPa-Negative Pulse NM-Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with RMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
0	New Item	402	Fire and Gas system	ESD	DI	ESD Signal	Sinal ESD	CSS	PMS	w	Р	Y	Υ	Y
0	New Item	402	Fire and Gas system											

								,	PMS : Power Monagement System GTW : Gateway VSS : Worstale Speed wine VSS : Worstale Speed wine VSS : Worstale Speed wine Seed of Seed wine Feed of Seed win	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Pulse Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	І/О Туре	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
Α	P53	403	LV Panel Status Type 1	52_MAINT	DI	Switch position _ 1=maintenance / 0= operation_	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	Υ	Υ	Υ
A	P53	403	LV Panel Status Type 1	27_CTR1	DI	Control voltage 1 ( 120 vac) - failure	Controle de tensão 1 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	P53	403	LV Panel Status Type 1	27_CTR2	DI	Control voltage 2 ( 120 vac) - failure	Controle de tensão 2 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	P53	403	LV Panel Status Type 1	INS_FTA	DI	Insulation failure - Bus A	Falha de isolação - Barramento A	UCP	GTW	W	P	Y	Y	Y
A	P53	403	LV Panel Status Type 1	INS_FTB	DI	Insulation failure - Bus B	Falha de isolação - Barramento B	UCP	GTW	W	P	Y	Y	Y
l		1			1						1		1	
	P53	403	LV Panel Status Type 1	1	1			1		1	1	I	1	

								ı	PMS - Fower Management System GTW - Gateway VSD Vortrable Speed Orive VSD Vortrable Speed Orive VSD Vortrable Speed Orive Reby TGCP: Turbins Generator Control Panel Helt - Human-Mechanie Interface. CSS - Since U.S. Speed	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	css	нмі
A	P54			52_MAINT			Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	Υ	Υ	Y
A	P54			27_CTR1			Controle de tensão 1 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	P54		LV Panel Status Type 2  LV Panel Status Type 2	27_CTR2	DI	Control voltage 2 ( 120 voc) - failure	Controle de tensão 2 (120Vac) - Falha	UCP	GTW	w	P	Y	Υ	Y
A	F.34	404	LV runer stutus Type 2								1			



								,	PMS. Power Monogement System GTW. Glober Office GTW. Glober Office Will American Service of the Richard Control of the Control Panel Human-Mochine Interface. CSS: Corrol 63 Celes System U.SP. 1 Unit Corrol Fane U.SP. 1 Unit Corrol Fane	I=IEC61850 W=wired M=Modbus TCP S=Modbus TCP S=Morbus SC45 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	V= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	css	нмі
A	P55			52_MAINT			Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	w	Р	Υ	Υ	Y
В	P55			27_CTRA			Falha na Tensão de Controle (A)	UCP	GTW	W	P	Y	Y	Y
B A	P55		MV Panel Status MV Panel Status	27_CTRB	DI	Control Voltage Failure B	Falha na Tensão de Controle (B)	UCP	GTW	w	Р	Y	Υ	Y



								,	PMS - Power Monogenent System GTW - Gateway VSS - Norrollab - Speed Chine VSS - Norrollab - Speed Chine Seed Chine Reby ToCP - Turbins - Generator Control Panel Hell - Internative - Speed Chine - Interface. CSS - Control	I=IEC61850 W=wired M=Modbus TCP S=Modbus RS485 P=ProFibus Z=Wired with synchroniser	P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained	Y= data time stamped at source	Y= data exchanged With CSS	Y= data exchanged with HMI
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	То	I/O Origin	I/O Logic	Time Stamp	CSS	нмі
B B	P56 P56	406 406		INS_FTA INS_FTB		Insulation failure - Bus A Insulation failure - Bus B	Falha de isolação - Barramento A Falha de isolação - Barramento B	UCP UCP	GTW GTW	w	P P	Y	Y	Y Y
В	P56		LV Panel Status Type 3											





-PNST

PMS/GTW Cabinet	Switchgegr	Busbar	Equipment TAG	Short TAG	Equipment Description	T42	Customer	System	Dana N9	Dhysical Cavianast
Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Item N°	Item N°	Page N°	Physical Equipment
Z-5140005	PN-5143001	Α	INCOMING 52-1A	P43001AK20	PN-5143001 Incoming from GE-TG-5147001A (IEC)	Alimentador GE-TG-5147001A - Painel PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	Α	INCOMING 52-1C	P43001AK19	PN-5143001 Incoming from GE-TG-5147001C (IEC)	Alimentador GE-TG-5147001C - Painel PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	В	INCOMING 52-1D	P43001BK15	PN-5143001 Incoming from GE-TG-5147001D (IEC)	Alimentador GE-TG-5147001D - Painel PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	В	INCOMING 52-1B	P43001BK14	PN-5143001 Incoming from GE-TG-5147001B (IEC)	Alimentador GE-TG-5147001B - Painel PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	А	TIE-BREAKER 52-1E (GTW)A	P43001AK17	PN-5143001 TIE Circuit Breaker A	PN-5143001 TIE A	P39	3	6	F650
Z-5140005	PN-5143001	В	TIE-BREAKER 52-1E (GTW)B	P43001BK17	PN-5143001 TIE Circuit Breaker B	PN-5143001 TIE B	P47	4	8	F650
Z-5140005	PN-5143001		PN-5143001-PNST	P43001PNST	Panel status PN-5143001	Status do painel PN-5143001	P55	405	52	wired
Z-5140005	PN-5143001	Α	TF-5143001A	P43001AK21	Production Transformer 13.8-4.16kV	Transformador de Produção 13.8 - 4.16kV	P17	7	14	T35
Z-5140005	PN-5143001	Α	TF-5143002A	P43001AK30	Production Transformer 13.8-0.48-0.48kV	Transformador de Produção 13.8 - 0.48kV	P51	8	15	F650
Z-5140005	PN-5143001	Α	M-C-UC-1231001A (GTW)	P43001AK26	Main Gas Compressor (IEC)	Compressor Principal de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	Α	M-C-UC-1231001C (GTW)	P43001AK27	Main Gas Compressor (IEC)	Compressor Principal de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	A	M-C-UC-1231002A (GTW)	P43001AK28	Exportation Gas Compressor (IEC)	Compressor de Exportação de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	A	M-C-UC-1252001A (GTW)	P43001AK22	Injection Gas Compressor (IEC)	Compressor de injeção de gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	A	M-C-UC-1225001 (GTW)	P43001AK23	Vapor Recovery Unit (VRU) Compressor (IEC)	Compressor (IEC) Unidade de Recuperação de vapor (VRU)	P15	5	10	M60
Z-5140005	PN-5143001	Α	TF-P-UT-1233001-01A	P43001AK29	Regeneration Gas Heater Transformer 13.8-0.69kV	Aquecedor do Regenerador de Gás - Transformador 13.8-0.69kV	P51	8	15	F650
Z-5140005	PN-5143001	A	TF-5143501A	P43001AK31	Hull Transformer 13.8-0.48-0.48kV	Casco - Transformador 13.8-0.48-0.48kV	P51	8	15	F650
Z-5140005	PN-5143001	A	Z-PN-5143001A-1 (GTW)	P43001AK32	Spare (11000 kW) (IEC)	Reserva (11000 kW) (IEC)	P15	5	10	M60
Z-5140005 Z-5140005	PN-5143001	B	TF-5143001B	P43001BK12	Production Transformer 13.8-4.16kV	Transformador de Produção 13.8 - 4.16kV	P17	7	14	T35
Z-5140005 Z-5140005	PN-5143001	В	TF-5143002B	P43001BK12	Production Transformer 13.8-0.48- 0.48kV	Transformador de Produção 13.8-0.48kV	P51	8	15	F650
Z-5140005 Z-5140005	PN-5143001 PN-5143001	В	TF-5143501B	P43001BK03	Hull Transformer 13.8-0.48-0.48kV	Casco - Transformador 13.8-0.48kV	P51	8	15	F650
Z-5140005 Z-5140005	PN-5143001 PN-5143001	B	M-B-1251002B (GTW)	P43001BK02	Main Injection Water Pump (IEC)	Bomba principal de Injeção de Água (IEC)	P16	6	12	M60
Z-5140005 Z-5140005	PN-5143001 PN-5143001	B	M-B-5133002 (GTW)	P43001BK09	Well Service Pump (IEC)	Poço - Bomba de Serviço (IEC)	P16	6	12	M60
Z-5140005 Z-5140005	PN-5143001 PN-5143001	B	M-B-UT-1251001-01B (GTW)	P43001BK08	Sulphate Removal Booster Pump (IEC)	Remoção de Sulfato - Bomba de Pressurização - (IEC)	P16	6	12	M60
							P16 P15	-		M60
Z-5140005	PN-5143001 PN-5143001	B B	M-C-UC-1231001B (GTW)	P43001BK06	Main Gas Compressor (IEC)	Compressor Principal de Gás (IEC)	P15 P15	5	10 10	M60
Z-5140005			M-C-UC-1231002B (GTW)	P43001BK05	Exportation Gas Compressor (IEC)	Compressor de Exportação de Gás (IEC)				
Z-5140005	PN-5143001	В	M-C-UC-1231002C (GTW)	P43001BK11	Exportation Gas Compressor (IEC)	Compressor de Exportação de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	В	M-C-UC-1252001B (GTW)	P43001BK10	Injection Gas Compressor (IEC)	Compressor de injeção de gás (IEC)	P15		10	M60
Z-5140005	PN-5143001	В	TF-P-UT-1233001-01B	P43001BK04	Regeneration Gas Heater Transformer 13.8-0.69kV	Aquecedor do Regenerador de Gás - Transformador 13.8-0.69kV	P51	8	15	F650
Z-5140005	PN-5143001	В	Z-PN-5143001B-1A (GTW)	P43001BK01	Spare (11000 kW) (IEC)	Reserva (11000 kW) (IEC)	P15	5	10	M60
Z-5140005	PN-5143002	A	INCOMING 52-2A	P43002AK22	PN-5143002 Circuit Breaker (from PN-5143001A)	Disjuntor PN-5143002 (de PN-5143001A)	P18	103	18	F650
Z-5140005	PN-5143002	В	INCOMING 52-2B	P43002BK07	PN-5143002 Circuit Breaker (from PN-5143001B)	Disjuntor PN-5143002 (de PN-5143001B)	P18	103	18	F650
Z-5140005	PN-5143002		TIE-BREAKER 52-2C	P43002K15	PN-5143002 TIE Circuit Breaker	TIE - PN-5143002	P19	104	19	F650
Z-5140005	PN-5143002		PN-5143002-PNST	P43002PNST	Panel status PN-5143002	Status do painel PN-5143002	P55	405	52	wired
Z-5140005	PN-5143002	Α	PN-5143507A	P43002AK28	Medium-Voltage Hull MCC 4.16kV	Casco - CCM 4.16kV Média Tensão	P25	107	23	F650
Z-5140005	PN-5143002	Α	M-B-1223001A	P43002AK27	Pre-Oil Dehydrator Recirculation Water Pump	Desidratador pré-óleo - Bomba de Recirculação de água	P21	101	16	M60
Z-5140005	PN-5143002	Α	M-B-1251001A	P43002AK26	Booster Injection Water Pump	Bomba de Injeção De Água - Pressuridador	P21	101	16	M60
Z-5140005	PN-5143002	Α	M-B-5111001A (GTW)	P43002AK25	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
2-5140005	PN-5143002	Α	M-B-5111001C (GTW)	P43002AK24	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
2-5140005	PN-5143002	Α	M-B-5124001A (GTW)	P43002AK23	Cooling Water Circulation Pump - Classified Area (IEC)	Área classificada (IEC) - Bomba de circulação de água de refrigeração	P24	106	21	M60
Z-5140005	PN-5143002	Α	M-B-5124002A	P43002AK21	Cooling Water Circulation Pump	Bomba de circulação de água de refrigeração	P22	102	17	M60
Z-5140005	PN-5143002	Α	M-B-5125001A	P43002AK20	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
Z-5140005	PN-5143002	Α	M-UC-Z-5412001A	P43002AK19	Flare Gas Recovery System	Sistema de Recuperação de Gás do Queimador	P23	105	20	M60
2-5140005	PN-5143002	Α	M-B-5125001C	P43002AK18	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
2-5140005	PN-5143002	Α	Z-PN-5143002A-1 (GTW)	P43002AK01	Spare (1000 kW) (IEC)	Reserva (1000kW) (IEC)	P24	106	21	M60
2-5140005	PN-5143002	В	PN-5143507B	P43002BK13	Medium-Voltage Hull MCC 4.16kV	Casco - CCM 4.16kV Média Tensão	P25	107	23	F650
2-5140005	PN-5143002	В	M-B-1223001B	P43002BK12	Pre-Oil Dehydrator Recirculation Water Pump	Desidratador pré-óleo - Bomba de Recirculação de água	P21	101	16	M60
Z-5140005	PN-5143002	В	M-B-1251001B	P43002BK11	Booster Injection Water Pump	Bomba de Injeção De Água - Pressuridador	P21	101	16	M60
2-5140005	PN-5143002	В	M-B-1251001C	P43002BK10	Booster Injection Water Pump	Bomba de Injeção De Água - Pressuridador	P21	101	16	M60
2-5140005	PN-5143002	В	M-B-5111001B (GTW)	P43002BK09	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
2-5140005	PN-5143002	В	M-B-5111001D (GTW)	P43002BK08	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
2-5140005	PN-5143002	В	M-B-5124001B (GTW)	P43002BK06	Cooling Water Circulation Pump - Classified Area (IEC)	Área classificada (IEC) - Bomba de circulação de água de refrigeração	P24	106	21	M60
2-5140005	PN-5143002	В	M-B-5124001C (GTW)	P43002BK05	Cooling Water Circulation Pump - Classified Area (IEC)	Área classificada (IEC) - Bomba de circulação de água de refrigeração	P24	106	21	M60
Z-5140005	PN-5143002	В	M-B-5124002B	P43002BK04	Cooling Water Circulation Pump	Bomba de circulação de água de refrigeração	P22	102	17	M60







PMS/GTW Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Z-5140005	PN-5143002	В	M-B-5125001B	P43002BK03	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
Z-5140005	PN-5143002	В	M-UC-Z-5412001B	P43002BK02	Flare Gas Recovery System	Sistema de Recuperação de Gás do Queimador	P23	105	20	M60
Z-5140005	PN-5143001	Α	M-B-1251002A (GTW)	P43001AK24	Main Injection Water Pump (IEC)	Bomba principal de Injeção de Água (IEC)	P16	6	12	M60
Z-5140005	PN-5143001	Α	M-B-UT-1251001-01A (GTW)	P43001AK25	Sulphate Removal Booster Pump (IEC)	Remoção de Sulfato - Bomba de Pressurização - (IEC)	P16	6	12	M60
Z-5140005	PN-5143002	В	Z-PN-5143002B-1 (GTW)	P43002BK17	Spare (1000 kW) (IEC)	Reserva (1000kW) (IEC)	P24	106	21	M60
Z-5140005	PN-P-UT-1233001-01A	Α	PN-P-UT-1233001-01A	PUT11AAPNA	INCOMING 52.33 - MMR	Alimentador 52.33 - MMR	P48	210	34	
Z-5140005	PN-P-UT-1233001-01A	Α	P-UT-1233001-01A	PUT11AAPA	Regeneration Gas Heater A	Regenerador de Gás - Aquecedor A	P49	400	48	
Z-5140005	PN-P-UT-1233001-01B	Α	PN-P-UT-1233001-01B	PUT11BAPNB	INCOMING 52.33 - MMR	Alimentador 52.33 - MMR	P48	210	34	
Z-5140005	PN-P-UT-1233001-01B	Α	P-UT-1233001-01B	PUT11BAPB	Regeneration Gas Heater B	Regenerador de Gás - Aquecedor B	P49	400	48	



PMS/GTW										
Cabinet	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Location Z-5140004	PN-5143003	A	INCOMING 52-3A	P43003A111	PN-5143003 Incommer Busbar A PN-5143	43003 - Alimentador Barramento A	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	B	INCOMING 52-3A	P43003A111 P43003B131		43003 - Alimentador Barramento B	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	В	TIE-BREAKER 52-3C	P43003B131 P43003121		43003 - Alimentador Barramento B	P20 P27	200	25	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003		PN-5143003-PNST	P43003121 P43003PNST		do painel PN-5143003	P53	403	50	wired
Z-5140004 Z-5140004	PN-5143003 PN-5143003	Δ	PN-5143004	P43003PNS1		ao painei PN-5143003 BOV Baixa Tensão	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	A	PN-5143004 PN-5143016	P43003A101 P43003A091		uxiliar 480V Baixa Tensão - Compressores	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003	A	PN-AC-5252002A	P43003A091 P43003A051		de de Ar condicionado - Sala de Painéis TOPSIDE	P52	212	36	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	A	M-B-1223003A	P43003A051 P43003A041		a de transferência de óleo	P28	202	26	L020-P-L-P-L1-Q1-UI-QU
Z-5140004 Z-5140004	PN-5143003 PN-5143003	A	M-B-UQ-1261001-07A	P43003A041 P43003A031		a Inibidor de Hidrato (Subsea)	P28 P35	202	28	- roou-e-MG-P1-G1-ni-on-
Z-5140004 Z-5140004	PN-5143003 PN-5143003	A	M-B-Z-UT-1251001-07A	P43003A031 P43003A021		a de vácuo	P35	204	29	-030-0-MG-P1-G1-n1-0n-
Z-5140004 Z-5140004	PN-5143003 PN-5143003	Α Α	M-SP-UT-1233001A	P43003A021 P43003A011		erador de Gás - Soprador	P32	205	29	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	A	M-B-UD-5122001A	P43003A011 P43003A081		Bomba Áqua Doce (SWRO)	P30	203	32	L020-D-L-D-L1-Q1-UI-0U-
Z-5140004 Z-5140004	PN-5143003	A	7-PN-5143003A-1	P43003A081		a (Carga Motórica - 220kW)	P30	208	32	1 020-P-MOD 2031-111-011-
Z-5140004 Z-5140004	PN-5143003 PN-5143003	Α Α	Z-PN-5143003A-1 Z-PN-5143003A-2	P43003A071 P43003A061		a (Carga Motórica - 220kW)	P30	208	32	1 020-0-1 MOD 2031-111-011-
Z-5140004 Z-5140004	PN-5143003 PN-5143003	B	PN-5143005	P43003A061 P43003B141		BOV Baixa Tensão	P36	208	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	B	PN-UC-1254001A-01	P43003B141 P43003B151		80V Baixa Tensão - Turbo Compressor CO2	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004 Z-5140004	PN-5143003 PN-5143003	B	M-B-5336001A	P43003B151 P43003B191		da Bomba de Recirculação do Navio	P36 P29	209	27	F650-B-F-B-F1-G1-HI-6H
							P29 P28			L020-B-L-B-L1-G1-HI-0H
Z-5140004	PN-5143003 PN-5143003	В	M-B-1223003C	P43003B201		a de transferência de óleo	P28 P28	202	26 26	L020-0-L1-01-U1-0U-
Z-5140004		В	M-B-1223005A	P43003B161		s Separador de Teste	. = 0			L020-B-L1-01-01-
Z-5140004	PN-5143003	В	PN-AQ-UT-1251001A	P43003B221		Sistema de Aquecimento - Unidade de Remoção de Sulfato	P34	207	31	MODOOZ
Z-5140004	PN-5143003	В	PN-AC-5252002C	P43003B231		de de Ar condicionado - Sala de Painéis TOPSIDE	P52	212	36	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	В	M-B-1223002A	P43003B211		a de Recirculação de Água - Desidratador de óleo	P28	202	26	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	В	Z-PN-5143003B-1	P43003B171		a (Carga Motórica - 220kW)	P30	208	32	rusu-p-A-6-1-G1-m-un-
Z-5140004	PN-5143003	В	Z-PN-5143003B-2	P43003B181		a (Carga Motórica - 220kW)	P30	208	32	rusu-p-A-6-1-G1-m-un-
Z-5140004	PN-5143003	В	M-B-UT-1251001-02A	P43003B241		a Limpeza de Membrana	P30	208	32	FD3V-D-140-F131-DI-DI-
Z-5140004	PN-5143003	В	M-B-UD-5122001C	P43003B251		Bomba Água Doce (SWRO)	P30	208	32	MOD 007
Z-5140004	PN-5143004		PN-5143004-PNST	P43004PNST		do painel PN-5143004	P54	404	51	wired
Z-5140004	PN-5143004	Α	M-B-5115001A	P43004A068		a de água de diluição	P1	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143004	Α	M-B-5125002A	P43004A055		ı Recirculação de Água Quente Utilitária	P2	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-01A	P43004A031		a anti-espumante	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-02A	P43004A032		a de desemulsificação	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-03A	P43004A033		a de produto quimico (Topside)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-04A	P43004A034		a de produto quimico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-05A	P43004A035		a de Inibição - Parafina	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-06A	P43004A036		a de Inibição - Hidrato (Topside)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-08A	P43004A037		s Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-09A	P43004A511		a de Inibição - Asfalteno	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1261001-10A	P43004A041		ı Inibição - Gás Corrosivo	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1262001-01A	P43004A042		ı inibição - Emulsão invertida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1262001-02A	P43004A043		a de diluição - Inibidor de emulsão	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1262001-03A	P43004A044		a de produto químico do sistema de agua produzida (Inibidor de Incrustação)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1263001-01A	P43004A045		a Sequestrante de Oxigênio	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1263001-02A	P43004A046		a - Biodispersor	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-1263001-03A	P43004A047		a de Injeção de água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-UT-1251001-01A	P43004A056		a de dosagem - Biocida	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	TF-5143003A	P43004A058		ormador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143004	Α	TF-5143005	P43004A059		ormador 480V-220V - Traço Elétrico Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143004	Α	M-EXT-5255003A	P43004A053	,	dor de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-EXT-5255004	P43004A057		dor de Exaustão - Chapéu chaminé 1 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-EXT-5255005	P43004A067		dor de Exaustão - Chapéu chaminé 3 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-VT-5254002A	P43004A061		dor da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-VT-5254003	P43004A062		dor da Fonte - Chapéu chaminé 3 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-VT-5254005A	P43004A063	Topside CO2 Central Storage - Supply Fan Ventilad	dor da Fonte - Central de armazenamento de CO2 Topside	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-VT-B-5133002	P43004A064		do Ventilador - Compartimento de Proteção do Compressor	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-UT-1251001-02A	P43004A065	Scale Inhibitor Dosing Pump Motor Motor b	bomba dosadora de produto quimico	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	M-B-UQ-UT-1251001-03A	P43004A066	Chlorine Scavenger Dosing Pump Motor Motor b	bomba dosadora de sequestrante de cloro	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	Α	Z-PN-5143004-1	P43004A069	Spare (Motor Load - 55kW) Reserva	a (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
	PN-5143004	Α	Z-PN-5143004-2	P43004A038	Spare (Motor Load - 30kW) Reserva	a (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTMF



PMS/GTW							Contant	Custom		
Cabinet	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Location Z-5140004	PN-5143004	Α	Z-PN-5143004-3	P43004A049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	Z-PN-5143004-4	P43004A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTMF
Z-5140004 Z-5140004	PN-5143004	A	Z-PN-5143004-5	P43004A040	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004 Z-5140004	PN-5143004	A	Z-PN-5143004-6	P43004A031	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100FFM + LTME
Z-5140004 Z-5140004	PN-5143005	<u> </u>	PN-5143004-0	P43004A310	Panel status PN-5143005	Status do painel PN-5143005	P54	404	51	wired
Z-5140004 Z-5140004	PN-5143005	B	CX-TO-1223001	P43005FN31	Pre-Oil Dehydrator Junction Box	Caixa de Junção - Desidratador pré-óleo	P6	301	38	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005	В	PN-AC-5252003A	P43005B059	Laboratory and Office Air Conditioner Unit	Ar condicionado - Laboratório e Escritório	P5	304	41	LTMR08PFM
Z-5140004	PN-5143005	B	M-B-5115002A	P43005B043	Cooling Water Make-up Pump - Classified Area	Área Classificada - Bomba de entrada - água de resfriamento	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	M-B-5115002A	P43005B045	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	LTMR100PFM + LTMF
Z-5140004	PN-5143005	B	M-VT-5254001C	P43005B045	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143005	В	M-B-UB-1251002A	P43005B046	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lufrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143005	В	M-B-UQ-1261001-04C	P43005B031	Scale Inhibitor (Subsea) Pump	Bomba de produto auimico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UO-1261001-08C	P43005B031	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005	B	M-B-UO-1261001-00C	P43005B032	Gas Corrosion Inhibitor Pump	Bomba Inibicão - Gás Corrosivo	P3	302	39	I TMR08PFM + I TMF
Z-5140004 Z-5140004	PN-5143005	B	M-B-UO-1262001-04A	P43005B033	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005	B	M-B-UQ-1262001-05A	P43005B034	Produced Water Biocide Pump	Bomba de produção - Água Bioestática	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005	В	M-VT-5254001A	P43005B055	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	LTMR100PFM + LTME
Z-5140004 Z-5140004	PN-5143005	B	TF-5143004A	P43005B047	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004 Z-5140004	PN-5143005	B	7-5241001	P43005B061	Nitrogen Generator Unit	Unidade Geração de Nitrogênio	P8	303	40	I TMR100PFM + I TMF
Z-5140004 Z-5140004	PN-5143005	B	M-B-FL-UT-5331001A	P43005B064	Flotation Pump Motor	Motor Bomba de Flotação	P7	303	38	LTMR100PFM + LTME
Z-5140004 Z-5140004	PN-5143005 PN-5143005	B	M-EXT-5255003B	P43005B063	Laboratory - Hood 5 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005	B	M-EXT-5255003B	P43005B051 P43005B052	Laboratory - Hood 4 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 4 - Laboratório	P2	301	38	ITMR08PFM + ITMF
	PN-5143005 PN-5143005	B					P2	301	38	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005 PN-5143005	B	M-EXT-5255007 M-VT-5254002B	P43005B053 P43005B054	Laboratory - Hood 2 - Exhaust Fan Laboratory - Hood 5 - Supply Fan	Ventilador de Exaustão - Chapéu chaminé 2 - Laboratório  Ventilador da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005 PN-5143005	B	M-VT-5254002B M-VT-5254004	P43005B054 P43005B055	Laboratory - Hood 5 - Supply Fan  Laboratory - Hood 4 - Supply Fan	Ventilador da Fonte - Chapeu Chamine 5 - Laboratório  Ventilador de alimentação - Chaminé 4 - Laboratório	P2 P2	301	38	LTMR08PFM + LTME
		B	M-VT-5254004 M-VT-5254005B				P2 P2			LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143005 PN-5143005	B		P43005B056 P43005B042	Topside CO2 Central Storage - Supply Fan	Ventilador da Fonte - Central de armazenamento de CO2 Topside	P2 P8	301 303	38 40	ITMR08PFM + LTME
		B	AQ-B-UB-1251002A		Lube Oil Heater for Main Injection Water Pump Motor	Aquecedor do óleo do motor da Bomba principal de Injeção de água				
Z-5140004	PN-5143005		Z-PN-5143005-1	P43005B410	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005 PN-5143005	В	Z-PN-5143005-2	P43005B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302 302	39 39	LTMR100PFM + LTME
Z-5140004	PN-5143005 PN-5143005	В	Z-PN-5143005-3	P43005B065	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004		В	Z-PN-5143005-4	P43005B037	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)				
Z-5140004	PN-5143005	В	Z-PN-5143005-5	P43005B038	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005	В	Z-PN-5143005-6	P43005B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143006	A	INCOMING 52-6A	P43006A111	PN-5143006 Incommer Busbar A	PN-5143006 - Alimentador Barramento A	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	В	INCOMING 52-6B	P43006B131	PN-5143006 Incommer Busbar B	PN-5143006 - Alimentador Barramento B	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006		TIE-BREAKER 52-6C	P43006121	PN-5143006 Tie	PN-5143006 Tie	P27	201	25	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006		PN-5143006-PNST	P43006PNST	Panel status PN-5143006	Status do painel PN-5143006	P53	403	50	wired
Z-5140004	PN-5143006	Α	PN-5143008	P43006A101	Low-Voltage Production MCC 480V	CCM 480V Baixa Tensão	P36	209	33	F650-B-F-B-F1-G0-HI-6H
Z-5140004	PN-5143006	A	PN-UC-1254001B-01	P43006A091	CO2 Turbo Compression Low-Voltage MCC 480V	CCM 480V Baixa Tensão - Turbo Compressor CO2	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	M-B-5336001B	P43006A051	Recycle Vessel Pump Motor	Motor da Bomba de Recirculação do Navio	P29	203	27	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	M-B-1223003B	P43006A041	Oil Transfer Pump	Bomba de transferência de óleo	P28	202	26	1030-1-0-1-0-1-0-1-
Z-5140004	PN-5143006	A	M-B-1223005B	P43006A081	Test Separator Pump	Bomba Separador de Teste	P28	202	26	MOD 007
Z-5140004	PN-5143006	A	PN-AQ-UT-1251001B	P43006A021	Sulphate Removal Unit Cleaning System Heater Panel	Painel Sistema de Aquecimento - Unidade de Remoção de Sulfato	P34	207	31	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	M-B-1223002B	P43006A031	Oil Dehydrator Recirculation Water Pump	Bomba de Recirculação de Água - Desidratador de óleo	P28	202	26	гозо-b-12-11-01-
Z-5140004	PN-5143006	Α	Z-PN-5143006A-1	P43006A071	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	rosv-p- <u>146-7</u> 1-31-ni-on-
Z-5140004	PN-5143006	Α	Z-PN-5143006A-2	P43006A061	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	гозо в 1 в 11 ст 11 сп
Z-5140004	PN-5143006	Α	M-B-UT-1251001-02B	P43006A011	Membrane Cleaning Pump	Bomba Limpeza de Membrana	P30	208	32	MOD 007
Z-5140004	PN-5143006	В	PN-5143007	P43006B141	Low-Voltage Production MCC 480V	CCM 480V Baixa Tensão	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	В	PN-5143017	P43006B151	Compressors Low-Voltage Auxiliary MCC 480V	CCM Auxiliar 480V Baixa Tensão - Compressores	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	В	PN-AC-5252002B	P43006B191	Topside Normal Panels Room Air Conditioner Unit	Unidade de Ar condicionado - Sala de Painéis TOPSIDE	P52	212	36	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	В	M-B-UQ-1261001-07B	P43006B201	Hydrate Inhibitor (Subsea) Pump	Bomba Inibidor de Hidrato (Subsea)	P35	204	28	1030-D-1-D-11-01-
Z-5140004	PN-5143006	В	M-B-Z-UT-1251002B	P43006B211	Vacuum Pump	Bomba de vácuo	P32	205	29	rosu-p-1-0-1-01-11-01-
Z-5140004	PN-5143006	В	M-SP-UT-1233001B	P43006B221	Regeneration Gas Blower	Regenerador de Gás - Soprador	P32	205	29	1400.007
Z-5140004	PN-5143006	В	PN-UH-1210001	P43006B161	Hydraulic Power Unit Vessel Valves Panel	Painel de Válvulas - Unidade de Força Hidraulica do Navio	P33	206	30	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	В	Z-PN-5143006B-1	P43006B171	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	MUD 003
Z-5140004	PN-5143006	В	Z-PN-5143006B-2	P43006B181	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	MUD 003
Z-5140004	PN-5143006	B	M-B-UD-5122001B	P43006B231	Fresh Water (SWRO) Pump Motor	Motor Bomba Água Doce (SWRO)	P30	208	32	1 030-D-L-D-LT-QT-UI-0U-



PMS/GTW							0	Control		
Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Z-5140004	PN-5143007		PN-5143007-PNST	P43007PNST	Panel status PN-5143007	Status do painel PN-5143007	P54	404	51	wired
Z-5140004	PN-5143007	В	AQ-T-UC-1225001	P43007B051	Vapor Recovery Unit (VRU) Compressor Lube Oil Heater - Tank	Tanque - Unidade de Recuperação de vapor (VRU) - Compressor aquecedor de óleo	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	PN-AC-5252003B	P43007B066	Laboratory and Office Air Conditioner Unit	Ar condicionado - Laboratório e Escritório	P5	304	41	I TMR08PFM
Z-5140004	PN-5143007	B	M-A-UO-1262001	P43007B031	Dilution Blending Unit	Unidade de Diluição e Homogenização	P9	309	46	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-5115001B	P43007B067	Dilution Water Pump	Bomba de água de diluição	P1	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-5115002B	P43007B056	Cooling Water Make-up Pump - Classified Area	Área Classificada - Bomba de entrada - água de resfriamento	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-5125002B	P43007B057	Utility Hot Water Circulation Pump	Bomba Recirculação de Água Quente Utilitária	P2	301	38	LTMR100PFM + LTMF
Z-5140004	PN-5143007	B	M-B-5412001A	P43007B058	High Pressure Flare Knock Out Drum Pump	Bomba de Alta Pressão - Chama de Eliminação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-5412002A	P43007B059	Low Pressure Flare Knock Out Drum Pump	Bomba de Baixa Pressão - Chama de Eliminação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	M-B-UQ-1261001-01B	P43007B032	Defoamer Pump	Bomba anti-espumante	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UO-1261001-04D	P43007B033	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	I TMR08PFM + I TMF
Z-5140004	PN-5143007	B	M-B-UO-1261001-05B	P43007B034	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	I TMR100PFM + I TMF
Z-5140004	PN-5143007	B	M-B-UO-1261001-06B	P43007B034	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-UO-1261001-08B	P43007B035	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007	B	M-B-UQ-1261001-09B	P43007B037	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalteno	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-UO-1262001-01B	P43007B037	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	I TMR08PFM + I TMF
Z-5140004 Z-5140004	PN-5143007	B	M-B-UQ-1262001-01B	P43007B038	Emulsion Inhibitor Dilution Water Pump	Bomba de diluição - Inibidor de emulsão	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007	B	M-B-UO-1262001-02B	P43007B041	Produced Water Scale Inhibitor Pump	Bomba de analção - inibidor de emaisão  Bomba de produto auímico do sistema de aqua produzida (Inibidor de Incrustação)	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007 PN-5143007	B	M-B-UQ-1263001-03B	P43007B042	Oxygen Scavenger Pump	Bomba Seauestrante de Oxiaênio	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007 PN-5143007	B	M-B-UQ-1263001-01B M-B-UQ-1263001-02B	P43007B043	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007 PN-5143007	B	M-B-UQ-1263001-02B M-B-UQ-1263001-03B	P43007B044	Injection Water Biocide Pump		P3	302	39	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007 PN-5143007	B	M-B-UQ-1263001-03B M-B-UO-UT-1251001-01B	P43007B045	Biocide Dosina Pump Motor	Bomba de Injeção de água Biocida	P4	303	40	LTMR08PFM + LTME
Z-5140004 Z-5140004	PN-5143007 PN-5143007	B	M-B-0Q-01-1251001-01B M-UH-5139001-02A	P43007B064 P43007B068		Bomba de dosagem - Biocida Motor HPU	P10	303	38	LTMR08PFM + LTME
	PN-5143007 PN-5143007	B		P43007B068	HPU Motor HPU Motor	Motor HPU Motor HPU	P10 P7	301	38	LTMR100PFM + LTME
Z-5140004		B	M-UH-5139001-01				P7			
Z-5140004	PN-5143007 PN-5143007	B	M-FT-UT-1251001-02A	P43007B053 P43007B054	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4 P4	303 303	40	LTMR100PFM + LTME
Z-5140004	PN-5143007 PN-5143007	B	M-FT-UT-1251001-02C	P43007B054 P43007B065		Injeção de Água - Filtro granulação			40	
Z-5140004			TF-5143003B		Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143007	В	M-B-UQ-UT-1251001-02B	P43007B062	Scale Inhibitor Dosing Pump Motor	Motor bomba dosadora de produto quimico	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143007	В	M-B-UQ-UT-1251001-03B	P43007B063	Chlorine Scavenger Dosing Pump Motor	Motor bomba dosadora de sequestrante de cloro	P4 P3	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-1	P43007B076	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)		302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-2	P43007B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-3	P43007B075	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-4	P43007B046	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-5	P43007B047	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	Z-PN-5143007-6	P43007B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	В	M-B-UC-1225001-B	P43007B510	Auxiliary Oil Pump for Vapor Recovery Unit (VRU) Compressor Motor B	Bomba de Óleo Auxiliar - Unidade de recuperação de vapor (VRU) - Compressor Motor B	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143008		PN-5143008-PNST	P43008PNST	Panel status PN-5143008	Status do painel PN-5143008	P54	404	51	wired
Z-5140004	PN-5143008	Α	CX-TO-1223002	P43008A064	Oil Dehydrator Junction Box	Caixa Junção - Desidratador de óleo	P6	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-FT-UT-1251001-02B	P43008A042	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	M-VT-5254001B	P43008A043	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-B-5115003B	P43008A045	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-B-5412001B	P43008A046	High Pressure Flare Knock Out Drum Pump	Bomba de Alta Pressão - Chama de Eliminação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-B-5412002B	P43008A047	Low Pressure Flare Knock Out Drum Pump	Bomba de Baixa Pressão - Chama de Eliminação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UC-1225001-A	P43008A054	Auxiliary Oil Pump for Vapor Recovery Unit (VRU) Compressor Motor A	Bomba de Óleo Auxiliar - Unidade de recuperação de vapor (VRU) - Compressor Motor A	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-UH-5139001-02B	P43008A056	HPU Motor	Motor HPU .	P10	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UB-1251002B	P43008A051	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lufrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UB-5133002	P43008A052	Auxiliary Lube Oil Pump for Well Service Pump	Bomba de lubrificação auxiliar - Bomba de serviço do Poço	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-02B	P43008A031	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-03B	P43008A032	Scale Inhibitor (Topside) Pump	Bomba de produto quimico (Topside)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-04B	P43008A033	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-04E	P43008A034	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-08D	P43008A035	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1261001-08E	P43008A036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1262001-04B	P43008A037	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	M-B-UQ-1262001-05B	P43008A038	Produced Water Biostatic Pump	Bomba de produção - Água Bioestática	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	TF-5143004B	P43008A053	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143008	Α	M-B-FL-UT-5331001B	P43008A055	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	LTMR100PFM + LTME



PMS/GTW							Customer	System		
Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Item N°	Item N°	Page N°	Physical Equipment
Z-5140004	PN-5143008	Α	AQ-B-UB-1251002B	P43008A044	Lube Oil Heater for Main Injection Water Pump Motor	Aquecedor do óleo do motor da Bomba principal de Injeção de água	P8	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-1	P43008A063	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-2	P43008A411	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-3	P43008A061	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-4	P43008A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-5	P43008A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	Α	Z-PN-5143008-6	P43008A410	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143011		PN-5143011-PNST	P43011PNST	Panel status PN-5143011	Status do painel PN-5143011	P56	406	53	wired
Z-5140004	PN-5143012		PN-5143012-PNST	P43012PNST	Panel status PN-5143012	Status do painel PN-5143012	P56	406	53	wired
Z-5140004	PN-5143016		PN-5143016-PNST	P43016PNST	Panel status PN-5143016	Status do painel PN-5143016	P54	404	51	wired
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231001A-A	P43016A033	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231001A-B	P43016A034	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231001C-A	P43016A035	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231001C-B	P43016A036	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231002A-A	P43016A037	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1231002A-B	P43016A038	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1252001A-A	P43016A039	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	AQ-VV-UC-1252001A-B	P43016A310	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	M-B-VV-UC-1231001A	P43016A041	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	M-B-VV-UC-1231001C	P43016A042	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	M-B-VV-UC-1231002A	P43016A043	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	M-B-VV-UC-1252001A	P43016A044	Auxiliary Lube Oil Pump Motor Injection Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	PN-UC-1231001A-01	P43016A031	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	PN-UC-1231001C-01	P43016A032	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	PN-UC-1231002A-01	P43016A045	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	PN-UC-1252001A-01	P43016A056	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeçãode Gás	P11	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-1	P43016A311	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-2	P43016A054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-3	P43016A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-4	P43016A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-5	P43016A052	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	Α	Z-PN-5143016-6	P43016A053	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017		PN-5143017-PNST	P43017PNST	Panel status PN-5143017	Status do painel PN-5143017	P54	404	51	wired
Z-5140004	PN-5143017	В	AQ-VV-UC-1231001B-A	P43017B032	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1231001B-B	P43017B033	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1231002B-A	P43017B034	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1231002B-B	P43017B035	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1231002C-A	P43017B036	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1231002C-B	P43017B037	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1252001B-A	P43017B041	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	AQ-VV-UC-1252001B-B	P43017B042	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	M-B-VV-UC-1231001B	P43017B046	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	M-B-VV-UC-1231002B	P43017B047	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	M-B-VV-UC-1231002C	P43017B048	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	M-B-VV-UC-1252001B	P43017B049	Auxiliary Lube Oil Pump Motor Injection Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	PN-UC-1231001B-01	P43017B031	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	PN-UC-1231002B-01	P43017B051	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	PN-UC-1231002C-01	P43017B052	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	PN-UC-1252001B-01	P43017B039	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeçãode Gás	P11	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-1	P43017B053	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-2	P43017B054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-3	P43017B038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-4	P43017B043	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-5	P43017B044	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	В	Z-PN-5143017-6	P43017B045	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01		PN-TG-5147001-01-01-PNST	PTG111PNST	Panel status PN-TG-5147001-01-01	Status do painel PN-TG-5147001-01-01	P54	404	51	wired
Z-5140004	PN-TG-5147001-01-01	Α	INC. CB PN-TG-5147001-01-01	PTG111A022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	F650 + P485



PMS/GTW							0	0		
Cabinet	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer	System	Page N°	Physical Equipment
Location	ŭ					, , ,	Item N°	Item N°	J	
2-5140004	PN-TG-5147001-01-01	Α	95QGT - GEN A	PTG111A031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	95QGT - GEN C	PTG111A032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	95QMT1 - GEN A	PTG111A033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	95QMT2 - GEN A	PTG111A034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	95QMT1 - GEN C	PTG111A035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	95QMT2 - GEN C	PTG111A036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88FL1 - GEN A	PTG111A053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88FL1 - GEN C	PTG111A054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QM - GEN A	PTG111A052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QM - GEN C	PTG111A411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QMD - GEN A	PTG111A037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QMD - GEN C	PTG111A038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
-5140004	PN-TG-5147001-01-01	Α	88QG1 - GEN A	PTG111A063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-01	Α	88QG2 - GEN A	PTG111A041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QG1 - GEN C	PTG111A042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88QG2 - GEN C	PTG111A043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88EV1 - GEN A	PTG111A044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88EV1 - GEN C	PTG111A045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88SR - GEN A	PTG111A039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	88SR - GEN C	PTG111A051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	M-B-5147001A	PTG111A046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	M-B-5147001C	PTG111A047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-1	PTG111A061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	LTMR08PFM + LTME
-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-2	PTG111A410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-3	PTG111A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-4	PTG111A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-5	PTG111A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-01	Α	Z-PN-TG-5147001-01-01-6	PTG111A062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02		PN-TG-5147001-01-02-PNST	PTG112PNST	Panel status PN-TG-5147001-01-02	Status do painel PN-TG-5147001-01-02	P54	404	51	wired
2-5140004	PN-TG-5147001-01-02	В	INC. CB PN-TG-5147001-01-02	PTG112B022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	F650 + P485
2-5140004	PN-TG-5147001-01-02	В	95QGT - GEN B	PTG112B031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	95QGT - GEN D	PTG112B032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	95QMT1 - GEN B	PTG112B033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	95QMT2 - GEN B	PTG112B034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	95QMT1 - GEN D	PTG112B035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	95QMT2 - GEN D	PTG112B036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88FL1 - GEN B	PTG112B053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-02	В	88FL1 - GEN D	PTG112B054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QM - GEN B	PTG112B411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QM - GEN D	PTG112B052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QMD - GEN B	PTG112B037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QMD - GEN D	PTG112B038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QG1 - GEN B	PTG112B063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QG2 - GEN B	PTG112B041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QG1 - GEN D	PTG112B042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88QG2 - GEN D	PTG112B043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	88EV1 - GEN B	PTG112B044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-02	В	88EV1 - GEN D	PTG112B045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-02	В	88SR - GEN B	PTG112B039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
-5140004	PN-TG-5147001-01-02	В	88SR - GEN D	PTG112B051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	M-B-5147001B	PTG112B046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	M-B-5147001D	PTG112B047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-1	PTG112B061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	LTMR08PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-2	PTG112B410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-3	PTG112B055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-4	PTG112B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
2-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-5	PTG112B049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME



PMS/GTW Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Z-5140004	PN-TG-5147001-01-02	В	Z-PN-TG-5147001-01-02-6	PTG112B062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-UC-1254001A-01	Α	PN-UC-1254001A-01-PNST	P4001APNST	Panel status	Status do painel	P42	300	37	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 22AB	PUC01AA022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	M-VT-TS-C-UC-1254001A-01	PUC01AA023	Enclosure vent fan motor 1	Ventilador - Motor 1	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	M-VT-TS-C-UC-1254001A-02	PUC01AA024	Enclosure vent fan motor 2	Ventilador - Motor 2	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	PN-AQ-Z-UC-1254001A	PUC01AA031	Seal Gas Heater Panel	Painel aquecedor gás de selagem	P50	310	47	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	PN-C-UC-1254001A	PUC01AA032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Oléo de Lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 33AB	PUC01AA033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	M-B-Z-UC-1254001A-01A	PUC01AA034	Lube Oil Pump A Motor	Motor da Bomba de Lubrificação - A	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	M-B-Z-UC-1254001A	PUC01AA035	Hydraulic Start System Pump Motor	Motor da Bomba de inicialização do sistema hidráulico	P50	310	47	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 41AB	PUC01AA041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	AQ-Z-UC-1254001A	PUC01AA042	Synthetic Reservoir Heater - Lube Oil	Aquecedor Reservatório de óleo sintético de lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 43AB	PUC01AA043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 44AB	PUC01AA044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	M-Z-UC-1254001A-01B	PUC01AA045	Back Up Lube Oil Pump Motor	Motor backup bomba de óleo de lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	Α	SPARE 46AB	PUC01AA046	Spare (Motor load - 55kw)	Reserva (Carga Motor - 55kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	PN-UC-1254001B-01-PNST	P4001BPNST	Panel status	Status do painel	P42	300	37	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 22BB	PUC01BB022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	M-VT-TS-C-UC-1254001B-01	PUC01BB023	Enclosure vent fan motor 1	Ventilador - Motor 1	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	M-VT-TS-C-UC-1254001B-02	PUC01BB024	Enclosure vent fan motor 2	Ventilador - Motor 2	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	PN-AQ-Z-UC-1254001B	PUC01BB031	Seal Gas Heater Panel	Painel aquecedor gás de selagem	P37	310	47	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	PN-C-UC-1254001B	PUC01BB032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Oléo de Lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 33BB	PUC01BB033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	M-B-Z-UC-1254001B-01A	PUC01BB034	Lube Oil Pump A Motor	Motor da Bomba de Lubrificação - A	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	M-B-Z-UC-1254001B	PUC01BB035	Hydraulic Start System Pump Motor	Motor da Bomba de inicialização do sistema hidráulico	P50	310	47	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 41BB	PUC01BB041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	AO-Z-UC-1254001B	PUC01BB042	Synthetic Reservoir Heater - Lube Oil	Aquecedor Reservatório de óleo sintético de lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 43BB	PUC01BB043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 44BB	PUC01BB044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	M-Z-UC-1254001B-01B	PUC01BB045	Back Up Lube Oil Pump Motor	Motor backup bomba de óleo de lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	В	SPARE 46BB	PUC01BB046	Spare (Motor load - 55kw)	Reserva (Carga Motor - 55kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-5143003		CF-B-5336001A	CFB01AK02	RECYCLE VESSEL PUMP A	Bomba de reciclagem do navio - A	P45	211	35	
Z-5140004	PN-5143006		CF-B-5336001B	CFB01BK02	RECYCLE VESSEL PUMP B	Bomba de reciclagem do navio - B	P45	211	35	
Z-5140004	PN-5143016		CF-SP-UT-1233001A	CFSUT3001A	Blower VSD Panel A/B	Painel A/B VSD do Soprador	P46	307	44	
Z-5140004	PN-5143017		CF-SP-UT-1233001B	CFSUT3001B	Blower VSD Panel A/B	Painel A/B VSD do Soprador	P46	307	44	



PMS/GTW							Customer	System		
Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Item N°	Item N°	Page N°	Physical Equipment
PN-5140001	PN-TG-5147001A-02		GE-TG-5147001A	PNTG47001A	Main Turbogenerator A	Turbogerador principal - A	P43	1001	4	
PN-5140001	PN-TG-5147001B-02		GE-TG-5147001B	PNTG47001B	Main Turbogenerator B	Turbogerador principal - B	P43	1001	4	
PN-5140001	PN-TG-5147001C-02		GE-TG-5147001C	PNTG47001C	Main Turbogenerator C	Turbogerador principal - C	P43	1001	4	
PN-5140001	PN-TG-5147001D-02		GE-TG-5147001D	PNTG47001D	Main Turbogenerator D	Turbogerador principal - D	P43	1001	4	
PN-5140001	FGS		FGS	514001FGS	ESD Fire and Gas System	Sistema ESD de Fogo e Gás	New Item	402	49	
PN-5140001	PN-5143001	Α	TIE-BREAKER 52-1E (PMS)A	P43001AK17	PN-5143001 TIE Circuit Breaker A	PN-5143001 TIE A	P39	1003	7	F650
PN-5140001	PN-5143001	В	TIE-BREAKER 52-1E (PMS)B	P43001BK17	PN-5143001 TIE Circuit Breaker B	PN-5143001 TIE B	P47	1004	9	F650
PN-5140001	PN-5143001	Α	M-C-UC-1231001A (PMS)	P43001AK26	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	Α	M-C-UC-1231001C (PMS)	P43001AK27	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	Α	M-C-UC-1231002A (PMS)	P43001AK28	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	Α	M-C-UC-1252001A (PMS)	P43001AK22	Injection Gas Compressor	Compressor de injeção de gás	P15	1005	11	M60
PN-5140001	PN-5143001	Α	M-C-UC-1225001 (PMS)	P43001AK23	Vapor Recovery Unit (VRU) Compressor	Compressor Unidade de Recuperação de vapor (VRU)	P15	1005	11	M60
PN-5140001	PN-5143001	Α	Z-PN-5143001A-1 (PMS)	P43001AK32	Spare (11000 kW)	Reserva (11000kW)	P15	1005	11	M60
PN-5140001	PN-5143001	В	M-B-1251002B (PMS)	P43001BK09	Main Injection Water Pump	Bomba principal de injeção de água	P16	1006	13	M60
PN-5140001	PN-5143001	В	M-B-5133002 (PMS)	P43001BK08	Well Service Pump	Bomba de serviço do poço	P16	1006	13	M60
PN-5140001	PN-5143001	В	M-B-UT-1251001-01B (PMS)	P43001BK07	Sulphate Removal Booster Pump	Bomba de remoção de sulfato	P16	1006	13	M60
PN-5140001	PN-5143001	В	M-C-UC-1231001B (PMS)	P43001BK06	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	В	M-C-UC-1231002B (PMS)	P43001BK05	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	В	M-C-UC-1231002C (PMS)	P43001BK11	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	В	M-C-UC-1252001B (PMS)	P43001BK10	Injection Gas Compressor	Compressor de injeção de gás	P15	1005	11	M60
PN-5140001	PN-5143001	Α	M-B-1251002A (PMS)	P43001AK24	Main Injection Water Pump	Bomba principal de injeção de água	P16	1006	13	M60
PN-5140001	PN-5143001	Α	M-B-UT-1251001-01A (PMS)	P43001AK25	Sulphate Removal Booster Pump	Bomba de remoção de sulfato	P16	1006	13	M60
PN-5140001	PN-5143002	Α	M-B-5111001A (PMS)	P43002AK25	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	Α	M-B-5111001C (PMS)	P43002AK24	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	Α	M-B-5124001A (PMS)	P43002AK23	Cooling Water Circulation Pump - Classified Area	Bomba de circulação de água de resfriamento de área classificada	P24	1106	22	M60
PN-5140001	PN-5143002	Α	Z-PN-5143002A-1 (PMS)	P43002AK01	Spare (1000 kW)	Reserva (1000kW)	P24	1106	22	M60
PN-5140001	PN-5143002	В	M-B-5111001B (PMS)	P43002BK09	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	В	M-B-5111001D (PMS)	P43002BK08	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	В	M-B-5124001B (PMS)	P43002BK06	Cooling Water Circulation Pump - Classified Area	Bomba de circulação de água de resfriamento de área classificada	P24	1106	22	M60
PN-5140001	PN-5143002	В	M-B-5124001C (PMS)	P43002BK05	Cooling Water Circulation Pump - Classified Area	Bomba de circulação de água de resfriamento de área classificada	P24	1106	22	M60
PN-5140001	PN-5143002	В	Z-PN-5143002B-1 (PMS)	P43002BK17	Spare (1000 kW)	Reserva (1000kW)	P24	1106	22	M60
PN-5140001	PN-5143001	В	Z-PN-5143001B-1B (PMS)	P43001BK01	Spare (11000 kW)	Reserva (11000kW)	P15	1005	11	M60







PMS/GTW Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
Z-5140002	PN-TG-5147001A-02		GE-TG-5147001A	PNTG47001A	Main Turbogenerator A (RS 485 Serial)	Turbogerador principal A (RS485 - Serial)	P44	1	3	MVI56E - Prosoft Serial Modbus + G60
Z-5140002	PN-TG-5147001B-02		GE-TG-5147001B	PNTG47001B	Main Turbogenerator B (RS 485 Serial)	Turbogerador principal B (RS485 - Serial)	P44	1	3	MVI56E - Prosoft Serial Modbus + G60
Z-5140002	PN-TG-5147001C-02		GE-TG-5147001C	PNTG47001C	Main Turbogenerator C (RS 485 Serial)	Turbogerador principal C (RS485 - Serial)	P44	1	3	MVI56E - Prosoft Serial Modbus + G60
Z-5140002	PN-TG-5147001D-02		GE-TG-5147001D	PNTG47001D	Main Turbogenerator D (RS 485 Serial)	Turbogerador principal D (RS485 - Serial)	P44	1	3	MVI56E - Prosoft Serial Modbus + G60



## GE Energy Power Conversion

Required I/Os (including \* 1,3 of Spare I/Os

				Wired	I/Os +	0% of	spare	101	Module	s + 30%	% of Sp	are
Location	Cabinet	RIO	IO Station	WDI	WDO	WAI	WAO	DI	DO	Al	AO	Total
			ST3	57	24	12	0	20	8	4	0	32
			ST4	60	26	13	0	21	9	5	0	35
PMS	PN-5140001	03	ST5	31	13	8	1	13	5	3	2	23
1115	1 N-3140001		ST6	28	12	8	1	10	4	3	2	19
			ST7	28	12	8	1	10	4	3	2	19
			ST8	28	12	8	1	10	4	3	2	19
	Z-5140005	01	ST2	39	0	0	0	13	2	0	0	15
GATEWAY	2-3140003		ST3	36	0	0	0	12	2	0	0	14
GATEWAT	Z-5140004	02	ST3	50	0	0	0	17	0	0	0	17
	2-3140004		ST4	52	0	0	0	16	0	0	0	16
		Total RIO	Total IO Station	409	99	57	4	142	38	21	8	
	•				56	59			20	09		

Class II (GE Internal Non-Critical)

4MLN0062

Rev E

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PMS and Topside Electrical Automation System - I/O List

I-LI-3010.93-5140-797-GC1-001.xlsm

FEB 27 2015



																				Input	/ Ou	tput											
					Wire	ed		F	Profib	us		Modk	ous R	S485	1	Modb	ous T	CP		IEC 6	1850			(	CSS		N°			TOT	ΓAL		
Customer	System	Page																								Т	Total						
Item N°	Item N°	Number	Item Description																														
Item 14	item is	Humber																									Data						
				DI	DO	AI	AO	DI I	ool A	AI IA	0 0	DI D	O AI	AO	Ы	ро	AI	AO	DI	DO	ΑI	AO	DI	DO	AI	AC	by	Wired	Profibus	Serial	Modbu	IEC	cs
						П		_		_		_		1	1											_	Item	Total	Total	Total	Total	Total	Tota
P44	1	3	TGCP	0	0	0	0	0	0 (	0 (	) 9	9 (	) 5	0	0	0	0	0	0	0	0	0	3	0	4	0	14	0	0	14	0	0	7
P43	1001	4	TGCP	28		8	1						0			0	0	0	0	0	0	0	0	0	0	0		49	0	0	0	0	0
P38	2	5	13.8 kV Incomer from TG	1		0	0						) 0			0	0	0	13	2	10	0	3	0	0	0		- 1	0	0	0	25	3
P39	3	6	13.8 kV Tie Circuit Breaker A	- 1	0	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	12	2	11	0	4	0	1	0		1	0	0	0	25	5
P39	1003	7	13.8 kV Tie Circuit Breaker A	3	1	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	4	4	0	0	0	0	3
P47	4	8	13.8 kV Tie Circuit Breaker B	2	0	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	18	0	7	0	2	0	0	0	27	2	0	0	0	25	2
P47	1004	9	13.8 kV Tie Circuit Breaker B	0	0	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P15	5	10	13.8kV Motor Gas Compressor	1	0	,	0	0	0 (	0 (	) (	0 0	0 (	0	0	0	0	0	24	1	11	0	3	1	1	0	37	1	0	0	0	36	5
P15	1005	11	13.8kV Motor Gas Compressor	5	2	1	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	8	8	0	0	0	0	2
P16	6	12	13.8kV Motor Pump	1	0	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	24	1	11	0	1	1	1	0	37	- 1	0	0	0	36	3
P16	1006	13	13.8kV Motor Pump	5	2	1	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	8	8	0	0	0	0	2
P17	7	14	13.8 kV Transformer feeder	1		0	0		_	_	,	-	0	0		0	0	0	17		10	0	1	0	1		30	1	0	0	0	29	2
P51	8	15	13.8 kV Transformer feeder (Type 2)	1	0		0		0 (	,	) (	0 0	0	0		0	0	0	15	2	10	0	5	2	1	0	-	1	0	0	0	27	8
P21	101	16	4.16kV MV Motor Pump type 2	1	0		0		0 (				0	0		0	0	0	21	2	19	0	5	2	4	0	ŗ	1	0	0	0	42	11
P22	102	17	4.16kV MV Motor Pump type 3	1		0	0					-	0	0	_ ~	0	0	0	21	2	19	0	3	0	1	0		1	0	0	0	42	4
P18	103	18	4.16kV MCC Incomer Circuit Breaker	1	0		0						0	0		0	0	0	20	2	7	0	6	0	0	0		1	0	0	0	29	6
P19	104	19	4.16kV MCC Tie Circuit Breaker	1		0	0		_		_		0	0	_	0	0	0	15		11	0	5	0	0	0		1	0	0	0	28	5
P23	105	20	4.16kV Motor type EA04_M	1		0	0		_		,	-	0	0	_ ~	0	0	0	20		19	0	3	0	1	0	40	1	0	0	0	39	4
P24	106	21	4.16kV Motor type EA01_M (1000kW)	1	0		0		0 (	_		-	0	0	_ ~	0	0	0	17	_	19	0	5	3	1	0		1	0	0	0	39	9
P24	1106	22	4.16kV Motor type EA01_M (1000kW)	4	2		0						0			0	0	0	0	0	0	0	0	1	0	0		7	0	0	0	0	1
P25	107	23	4.16kV MCC CB Feeder to Hull	1	_	0	0				_		0	_	_	·	0	0	15	_	11	0	3	0	0	0	_	1	0	0	0	28	3
P26 P27	200 201	24 25	LV_CDC Incomer  LV_CDC Tie	2	0	0	0						0 0	0		0	0	0	14	2	9	0	5	0	0			2	0	0	0	25 20	5
P28	201	26	LV_CDC Notor Type EA01-M	1		0	0		0 1	,	) (		) 0	0	_	0	0	0	14	2	7	0	9	2	0		24	1	0	0	0	23	1
P29	202	27	LV_CDC Motor Type EA02-M	1		0	0	_	0 1	_			) 0	0	Ť	0	0	0	12	1	7	0	13	2	0	0	21	1	0	0	0	20	15
P35	203	28	LV_CDC Motor Subsea Type EA02-M	1	0		0	_	0 1	_	) (	0 0	) 0	0		0	0	0	15	2	7	0	7	0	0	0		1	0	0	0	24	7
P32	205	29	LV_CDC Motor Type EA04-M	1	0	Ü	0	•	_	_	) (	0 0	) 0	0		0	0	0	15	0	7	0	7	0	0	0	23	1	0	0	0	22	7
P33	206	30	LV_CDC Hydraulic Panel Feeder Type EA04-NM	1	0	_	0				_		) 0	_		0	0	0	13	0	7	0	5	0	0	0		1	0	0	0	20	5
P34	207	31	LV CDC Heater Panel Feeder Type EA04-NM	1		0	0				_		) 0	0	0	0	0	0	11	0	7	0	4	0	0	0		1	0	0	0	18	4
P30	208	32	LV_CDC Feeder Type EA03-NM	- 1	0	0	0	0	0 (	0 (	) (	0 0	0 (	0	0	0	0	0	15	2	7	0	7	0	0	0	25	1	0	0	0	24	7
P36	209	33	LV_CDC MCC Feeder Type F2	1	0	0	0	0	0 (	0 (	) (	0 0	) 0	0	0	0	0	0	13	2	7	0	7	0	0	0	23	1	0	0	0	22	7
P48	210	34	LV Transformer Incomer 52.33	2	0	0	0	0	0 (	0 (	) (	0 0	0	0	6	2	7	0	0	0	0	0	8	0	0	0	17	2	0	0	15	0	8
P45	211	35	LV VSD Pump Type 1	0	0	0	0	0	0 (	0 (	) (	0 0	0 (	0	5	1	7	0	0	0	0	0	5	1	1	0	13	0	0	0	13	0	7
P52	212	36	LV_CDC Feeder Type EA03-NM (Type2)	- 1	0	0	0	0	0 (	0 (	) (	0 0	0	0	0	0	0	0	11	2	7	0	4	1	0	0	21	1	0	0	0	20	5
P42	300	37	LV_UC Panel Status	5	0	0	0	4	0 (	0 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	9	5	4	0	0	0	5
P1 & P2 & P7 & P6 & P10	301	38	LV MCC Motor type 1	0		0	0	5	2	1 (	) (	0 0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	8	0	8	0	0	0	6
P3	302	39	LV MCC Motor type 2	0		0	0	_	_	1 (	) (	0 0	0	0	_ ~	0	0	0	0	0	0	0	4	2	0	0		0	9	0	0	0	6
P4 & P8 & P11 & P12 & P14	303	40	LV MCC Motor type 3	0	0		0	•		1 (	) (	0 0	0 (	0	·	0	0	0	0	0	0	0	2	0	0		,	0	6	0	0	0	2
P5	304	41	LV MCC type EA03	0	0		0		_			-	0	0		0	0	0	0	0	0	0	2	0	0		_	0	7	0	0	0	2
P13	305	42	LV Turbogenerator Hydraulic Start-up Pump Motor	0	_	0	0			_	_		0	0		0	0	0	0	0	0	0	0	0	0	0	_	0	9	0	0	0	0
P37	306	43	LV_UC Type EA04	0		0	0				) (		0	0		0	0	0	0	0	0	0	2	0	0	0		0	8	0	0	0	2
P46	307	44 45	LV VSD Pump Type 2	0		0	0		•	4 (	) (	-	0	0	_ ~	0	0	0	0	0	0	0	2	0	2			0	7	0	0	0	4
P41 P9	308 309	45 46	LV_MCC Incomer CB (F650 + P487)	0			0	_	2	1			0 0	0	_ ~	0	0	0	0	0	0	0	4	1	0	0		0	13 9	0	0	0	5
P50	310	46	LV Feeder type EA02-NM LV UC/EA04/CSS 15	0	0	0	0	3	2	1 4	) (	0 0	) 0	0	0	0	0	0	0	0	0	0	4	0	0			0	4	0	0	0	1
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P54	404	51	LV Panel Status Type 2	3		0	0		0 1	_		-	) 0	0	_ ~	0	0	0	0	0	0	0	1	0	0			3	0	0	0	0	1
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PN-5140001	232	99	57	4	392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	392	392	0	0	0	0
Z-5140004	102	0	0	0	102	1368	265	263	0	1896	0	0	0	0	0	10	2	14	0	26	659	80	342	0	1081	3105	102	1896	0	26	1081
Z-5140005	71	0	0	0	71	0	0	0	0	0	0	0	0	0	0	12	4	14	0	30	1078	99	760	0	1937	2038	71	0	0	30	1937
Z-5140002	0	0	0	0	0	0	0	0	0	0	36	0	20	0	56	0	0	0	0	0	0	0	0	0	0	56	0	0	56	0	0
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	Qty	of EQUIPME	NT by type o	f communica	tion
Cabinet	Wired	Profibus	Serial	Modbus	IEC
PN-5140001	31	0	0	0	0
Z-5140004	62	259	0	2	48
Z-5140005	61	0	0	2	56
Z-5140002	0	0	4	0	0
	154	259	4	4	104



	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
	PN-5143004	TF-5143003A	P43004A058	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	1	2	2	4
	PN-5143004	TF-5143005	P43004A059	Topside Heat Tracing Transformer 480- 220V	Transformador 480V-220V - Traço Elétrico Topside	P5	304	41	1	3	3	4
	PN-5143004	M-EXT-5255003A	P43004A053	Laboratory - Hood 5 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	1	4	4	1
	PN-5143004	M-B-5115001A	P43004A068	Dilution Water Pump	Bomba de água de diluição	P1	301	38	1	5	5	1
	PN-5143004	M-B-5125002A	P43004A055	Utility Hot Water Circulation Pump	Bomba Recirculação de Água Quente Utilitária	P2	301	38	1	6	6	1
	PN-5143004	M-B-UQ-1261001-01A	P43004A031	Defoamer Pump	Bomba anti-espumante	P3	302	39	1	7	7	2
	PN-5143004	M-B-UQ-1261001-02A	P43004A032	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	1	8	8	2
	PN-5143004	M-B-UQ-1261001-03A	P43004A033	Scale Inhibitor (Topside) Pump	Bomba de produto quimico (Topside)	P3	302	39	1	9	9	2
	PN-5143004	M-B-UQ-1261001-04A	P43004A034	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	1	10	10	2
	PN-5143004	M-B-UQ-1261001-05A	P43004A035	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	1	11	11	2
	PN-5143004	M-B-UQ-1261001-06A	P43004A036	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	1	12	12	2
>	PN-5143004	M-B-UQ-1261001-08A	P43004A037	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	1	13	13	2
480V	PN-5143004	M-B-UQ-1261001-09A	P43004A511	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalteno	P3	302	39	1	14	14	2
	PN-5143004	M-B-UQ-1261001-10A	P43004A041	Gas Corrosion Inhibitor Pump	Bomba Inibição - Gás Corrosivo	P3	302	39	1	15	15	2
. <del>+</del> ()	PN-5143004	M-B-UQ-1262001-01A	P43004A042	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	1	16	16	2
004 MC	PN-5143004	M-B-UQ-1262001-02A	P43004A043	Emulsion Inhibitor Dilution Water Pump	Bomba de díluição - Inibidor de emulsão	P3	302	39	1	17	17	2
I-5143004	PN-5143004	M-B-UQ-1262001-03A	P43004A044	Produced Water Scale Inhibitor Pump	Bomba de produto químico do sistema de agua produzida (Inibidor de	P3	302	39	1	18	18	2
7 0	PN-5143004	M-B-UQ-1263001-01A	P43004A045	Oxygen Scavenger Pump	Bomba Sequestrante de Oxigênio	P3	302	39	1	19	19	2
;; <u> </u>	PN-5143004	M-B-UQ-1263001-02A	P43004A046	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	1	20	20	2
PRODUC	PN-5143004	M-B-UQ-1263001-03A	P43004A047	Injection Water Biocide Pump	Bomba de Injeção de água Biocida	P3	302	39	1	21	21	2
	PN-5143004	M-B-UQ-UT-1251001-01A	P43004A056	Biocide Dosing Pump Motor	Bomba de dosagem - Biocida	P4	303	40	1	22	22	1
$\simeq$	PN-5143004	M-EXT-5255004	P43004A057	Laboratory - Hood 1 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 1 - Laboratório	P2	301	38	1	23	23	1
Δ.	PN-5143004	M-EXT-5255005	P43004A067	Laboratory - Hood 3 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 3 - Laboratório	P2	301	38	1	24	24	1
2	PN-5143004	M-VT-5254002A	P43004A061	Laboratory - Hood 5 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	1	25	25	1
	PN-5143004	M-VT-5254003	P43004A062	Laboratory - Hood 3 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 3 - Laboratório	P2	301	38	1	26	26	1
	PN-5143004	M-VT-5254005A	P43004A063	Topside CO2 Central Storage - Supply Fan	Ventilador da Fonte - Central de armazenamento de CO2 Topside	P2	301	38	1	27	27	1
	PN-5143004	M-VT-B-5133002	P43004A064	Compressor Enclosure Fan Motor	Motor do Ventilador - Compartimento de Proteção do Compressor	P4	303	40	1	28	28	1
	PN-5143004	M-B-UQ-UT-1251001-02A	P43004A065	SBS Dosing Pump Motor	Motor bomba dosadora de produto quimico	P4	303	40	1	29	29	1
	PN-5143004	M-B-UQ-UT-1251001-03A	P43004A066	Non-Oxydising Biocide Pump Motor	Motor bomba dosadora de sequestrante de cloro	P4	303	40	1	30	30	1
	PN-5143004	Z-PN-5143004-1	P43004A069	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	1	31	31	2
	PN-5143004	Z-PN-5143004-2	P43004A038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	1	32	32	2
	PN-5143004	Z-PN-5143004-3	P43004A049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	1	33	33	2
	PN-5143004	Z-PN-5143004-4	P43004A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	34	34	2
	PN-5143004	Z-PN-5143004-5	P43004A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	35	35	2
	PN-5143004	Z-PN-5143004-6	P43004A510	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	36	36	2



	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
	PN-5143005	TF-5143004A	P43005B061	Topsides Normal Transformer 480-220V Transformer	nador 480V-220V - Topside	P5	304	41	2	2	2	4
	PN-5143005	Z-5241001	P43005B064	Nitrogen Generator Unit Unidade Ge	Geração de Nitrogênio	P8	303	40	2	3	3	1
	PN-5143005	CX-TO-1223001	P43005B059	Pre-Oil Dehydrator Junction Box Caixa de Ju	Junção - Desidratador pré-óleo	P6	301	38	2	4	4	1
	PN-5143005	PN-AC-5252003A	P43005B062	Laboratory and Office Air Conditioner Unit Ar condicio	onado - Laboratório e Escritório	P5	304	41	2	5	5	4
	PN-5143005	AQ-B-UB-1251002A	P43005B042	Lube Oil Heater for Main Injection Water Pump Motor Aquecedor	r do óleo do motor da Bomba principal de Injeção de água	P8	303	40	2	6	6	1
	PN-5143005	M-B-5115002A	P43005B043	Cooling Water Make-up Pump - Classified Area Área Classi	sificada - Bomba de entrada - água de resfriamento	P7	301	38	2	7	7	1
	PN-5143005	M-B-5115003A	P43005B044	Hot Water Make-up Pump Bomba de	entrada - Água quente	P7	301	38	2	8	8	1
_	PN-5143005	M-VT-5254001C	P43005B045	Topside Normal Transformer/HVAC Rooms Supply Fan Salas de Tr	ransformadores e HVAC - Ventilador de Alimentação	P7	301	38	2	9	9	1
480V	PN-5143005	M-B-UB-1251002A	P43005B046	Lube Oil Pump for Main Injection Water Pump Motor Bomba de	Lufrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	2	10	10	1
9	PN-5143005	M-B-UQ-1261001-04C	P43005B031	Scale Inhibitor (Subsea) Pump Bomba de	produto quimico (Subsea)	P3	302	39	2	11	11	2
Ü	PN-5143005	M-B-UQ-1261001-08C	P43005B032	H2S Scavenger (Subsea) Pump Bomba Sec	crestante de H2S	P3	302	39	2	12	12	2
10 25	PN-5143005	M-B-UQ-1261001-10B	P43005B033	Gas Corrosion Inhibitor Pump Bomba Inib	ibição - Gás Corrosivo	P3	302	39	2	13	13	2
300 N M	PN-5143005	M-B-UQ-1262001-04A	P43005B034	Produced Water Biocide Pump Bomba de	produção - Água Biocida	P3	302	39	2	14	14	2
75	PN-5143005	M-B-UQ-1262001-05A	P43005B035	Produced Water Biostatic Pump Bomba de	produção - Água Bioestática	P3	302	39	2	15	15	2
PN-5143	PN-5143005	M-VT-5254001A	P43005B047	Topside Normal Transformer/HVAC Rooms Supply Fan Salas de Tr	ransformadores e HVAC - Ventilador de Alimentação	P7	301	38	2	16	16	1
3, 9	PN-5143005	M-EXT-5255003B	P43005B051	Laboratory - Hood 5 - Exhaust Fan Ventilador	de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	2	17	17	1
<u> </u>	PN-5143005	M-EXT-5255006	P43005B052	Laboratory - Hood 4 - Exhaust Fan Ventilador	de Exaustão - Chapéu chaminé 4 - Laboratório	P2	301	38	2	18	18	1
8	PN-5143005	M-EXT-5255007	P43005B053	Laboratory - Hood 2 - Exhaust Fan Ventilador	de Exaustão - Chapéu chaminé 2 - Laboratório	P2	301	38	2	19	19	1
<u> </u>	PN-5143005	M-VT-5254002B	P43005B054	Laboratory - Hood 5 - Supply Fan Ventilador	da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	2	20	20	1
$\geq$	PN-5143005	M-VT-5254004	P43005B055	Laboratory - Hood 4 - Supply Fan Ventilador	de alimentação - Chaminé 4 - Laboratório	P2	301	38	2	21	21	1
	PN-5143005	M-VT-5254005B	P43005B056	Topside CO2 Central Storage - Supply Fan Ventilador	r da Fonte - Central de armazenamento de CO2 Topside	P2	301	38	2	22	22	1
	PN-5143005	M-B-FL-UT-5331001A	P43005B063	Flotation Pump Motor Motor Bom	nba de Flotação	P7	301	38	2	23	23	1
	PN-5143005	Z-PN-5143005-1	P43005B410	Spare (Motor Load - 55kW) Reserva (Co	Carga Motor - 55kW)	P3	302	39	2	24	24	2
	PN-5143005	Z-PN-5143005-2	P43005B049	Spare (Motor Load - 30kW) Reserva (Co	Carga Motor - 30kW)	P3	302	39	2	25	25	2
	PN-5143005	Z-PN-5143005-3	P43005B065	Spare (Motor Load - 30kW) Reserva (Co	Carga Motor - 30kW)	P3	302	39	2	26	26	2
	PN-5143005	Z-PN-5143005-4	P43005B037	Spare (Motor Load - 11kW) Reserva (Co	Carga Motor - 11kW)	P3	302	39	2	27	27	2
	PN-5143005	Z-PN-5143005-5	P43005B038	Spare (Motor Load - 11kW) Reserva (Co	Carga Motor - 11kW)	P3	302	39	2	28	28	2
	PN-5143005	Z-PN-5143005-6	P43005B048	Spare (Motor Load - 11kW) Reserva (Co	Carga Motor - 11kW)	P3	302	39	2	29	29	2



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	PN-5143007	AQ-T-UC-1225001	P43007B051	Vapor Recovery Unit (VRU) Compressor Lube Oil Heater - Tank	Tanque - Unidade de Recuperação de vapor (VRU) - Compressor aqued	P8	303	40	3	2	2	1
	PN-5143007	TF-5143003B	P43007B065	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	3	4	4	4
	PN-5143007	M-FT-UT-1251001-02A	P43007B053	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	3	5	5	1
	PN-5143007	M-FT-UT-1251001-02C	P43007B054	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	3	6	6	1
	PN-5143007	PN-AC-5252003B	P43007B066	Laboratory and Office Air Conditioner Unit	Ar condicionado - Laboratório e Escritório	P5	304	41	3	7	7	4
	PN-5143007	M-A-UQ-1262001	P43007B031	Dilution Blending Unit	Unidade de Diluição e Homogenização	P9	309	46	3	8	8	2
	PN-5143007	M-B-5115001B	P43007B067	Dilution Water Pump	Bomba de água de diluição	P1	301	38	3	9	9	1
	PN-5143007	M-B-5115002B	P43007B056	Cooling Water Make-up Pump - Classified Area	Área Classificada - Bomba de entrada - água de resfriamento	P7	301	38	3	10	10	1
	PN-5143007	M-B-5125002B	P43007B057	Utility Hot Water Circulation Pump	Bomba Recirculação de Água Quente Utilitária	P2	301	38	3	11	11	1
	PN-5143007	M-B-5412001A	P43007B058	High Pressure Flare Knock Out Drum Pump	Bomba de Alta Pressão - Chama de Eliminação	P7	301	38	3	12	12	1
	PN-5143007	M-B-5412002A	P43007B059	Low Pressure Flare Knock Out Drum Pump	Bomba de Baixa Pressão - Chama de Eliminação	P7	301	38	3	13	13	1
≥	PN-5143007	M-B-UQ-UT-1251001-02B	P43007B062	SBS Dosing Pump Motor	Motor bomba dosadora de produto quimico	P4	303	40	3	14	14	1
480V	PN-5143007	M-B-UQ-UT-1251001-03B	P43007B063	Non-Oxydising Biocide Pump Motor	Motor bomba dosadora de sequestrante de cloro	P4	303	40	3	15	15	1
	PN-5143007	M-B-UQ-1261001-01B	P43007B032	Defoamer Pump	Bomba anti-espumante	P3	302	39	3	16	16	2
~ CC	PN-5143007	M-B-UQ-1261001-04D	P43007B033	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	3	17	17	2
QΣ	PN-5143007	M-B-UQ-1261001-05B	P43007B034	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	3	18	18	2
2 3	PN-5143007	M-B-UQ-1261001-06B	P43007B035	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	3	19	19	2
-514 CTIO	PN-5143007	M-B-UQ-1261001-08B	P43007B036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	3	20	20	2
.5: T	PN-5143007	M-B-UQ-1261001-09B	P43007B037	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalteno	P3	302	39	3	21	21	2
PRODUC	PN-5143007	M-B-UQ-1262001-01B	P43007B038	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	3	22	22	2
д Д	PN-5143007	M-B-UQ-1262001-02B	P43007B041	Emulsion Inhibitor Dilution Water Pump	Bomba de diluição - Inibidor de emulsão	P3	302	39	3	23	23	2
8	PN-5143007	M-B-UQ-1262001-03B	P43007B042	Produced Water Scale Inhibitor Pump	Bomba de produto químico do sistema de agua produzida (Inibidor de	P3	302	39	3	24	24	2
	PN-5143007	M-B-UQ-1263001-01B	P43007B043	Oxygen Scavenger Pump	Bomba Sequestrante de Oxigênio	P3	302	39	3	25	25	2
≥	PN-5143007	M-B-UQ-1263001-02B	P43007B044	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	3	26	26	2
	PN-5143007	M-B-UQ-1263001-03B	P43007B045	Injection Water Biocide Pump	Bomba de Injeção de água Biocida	P3	302	39	3	27	27	2
	PN-5143007	M-B-UQ-UT-1251001-01B	P43007B064	Anti-Scale Injection Pump Motor	Bomba de dosagem - Biocida	P4	303	40	3	28	28	1
	PN-5143007	M-UH-5139001-02A	P43007B068	HPU Motor	Motor HPU	P10	301	38	3	29	29	1
	PN-5143007	M-UH-5139001-01	P43007B055	HPU Motor	Motor HPU	P7	301	38	3	30	30	1
	PN-5143007	Z-PN-5143007-1	P43007B076	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	3	31	31	2
	PN-5143007	Z-PN-5143007-2	P43007B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	3	32	32	2
	PN-5143007	Z-PN-5143007-3	P43007B075	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	3	33	33	2
	PN-5143007	Z-PN-5143007-4	P43007B046	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	3	34	34	2
	PN-5143007	Z-PN-5143007-5	P43007B047	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	3	35	35	2
	PN-5143007	Z-PN-5143007-6	P43007B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	3	36	36	2
	PN-5143007	M-B-UC-1225001-B	P43007B510	Auxiliary Oil Pump for Vapor Recovery Unit (VRU) Compressor Motor B	Bomba de Óleo Auxiliar - Unidade de recuperação de vapor (VRU) - Cor	P4	303	40	3	37	37	1



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PN-5143016	AQ-VV-UC-1231001A-A	P43016A033	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal de Gás	P4	303	40	3	38	38	1
PN-5143016	AQ-VV-UC-1231001A-B	P43016A034	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de gás	P4	303	40	3	39	39	1
PN-5143016	AQ-VV-UC-1231001C-A	P43016A035	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal de Gás	P4	303	40	3	40	40	1
PN-5143016	AQ-VV-UC-1231001C-B	P43016A036	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de gás	P4	303	40	3	41	41	1
PN-5143016	AQ-VV-UC-1231002A-A	P43016A037	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de exporta	P4	303	40	3	42	42	1
≥ PN-5143016	AQ-VV-UC-1231002A-B	P43016A038	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de exportação	P4	303	40	3	43	43	1
PN-5143016 PN-5143016	AQ-VV-UC-1252001A-A	P43016A039	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás	P4	303	40	3	44	44	1
PN-5143016	AQ-VV-UC-1252001A-B	P43016A310	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de injeção de gás	P4	303	40	3	45	45	1
PN-5143016	M-B-VV-UC-1231001A	P43016A041	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	3	46	46	1
→ <b>PN-5143016</b>	M-B-VV-UC-1231001C	P43016A042	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	3	47	47	1
PN-5143016	M-B-VV-UC-1231002A	P43016A043	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação de gás	P4	303	40	3	48	48	1
PN-5143016	M-B-VV-UC-1252001A	P43016A044	Auxiliary Lube Oil Pump Motor Injection Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de injeção de gás	P4	303	40	3	49	49	1
PN-5143016	PN-UC-1231001A-01	P43016A031	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	3	50	50	1
PN-5143016 PN-5143016 PN-5143016	PN-UC-1231001C-01	P43016A032	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	3	51	51	1
PN-5143016	PN-UC-1231002A-01	P43016A045	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	3	52	52	1
PN-5143016	PN-UC-1252001A-01	P43016A056	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeçãode Gás	P11	303	40	3	53	53	1
PN-5143016	Z-PN-5143016-1	P43016A311	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	3	54	54	1
☐ PN-5143016	Z-PN-5143016-2	P43016A054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	3	55	55	1
PN-5143016	Z-PN-5143016-3	P43016A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	3	56	56	1
PN-5143016	Z-PN-5143016-4	P43016A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	3	57	57	1
PN-5143016	Z-PN-5143016-5	P43016A052	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	3	58	58	1
PN-5143016	Z-PN-5143016-6	P43016A053	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	3	59	59	1
PN-5143016	CF-SP-UT-1233001A	CFSUT3001A	Blower VSD Panel A/B	Painel A/B VSD do Soprador	P46	307	44	3	60	51	21



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	PN-5143008	TF-5143004B	P43008A053	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	4	2	2	4
	PN-5143008	CX-TO-1223002	P43008A064	Oil Dehydrator Junction Box	Caixa Junção - Desidratador de óleo	P6	301	38	4	3	3	1
	PN-5143008	M-FT-UT-1251001-02B	P43008A042	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	4	4	4	1
	PN-5143008	M-VT-5254001B	P43008A043	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	4	5	5	1
	PN-5143008	AQ-B-UB-1251002B	P43008A044	Lube Oil Heater for Main Injection Water Pump Motor	Aquecedor do óleo do motor da Bomba principal de Injeção de água	P8	303	40	4	6	6	1
	PN-5143008	M-B-5115003B	P43008A045	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	4	7	7	1
	PN-5143008	M-B-5412001B	P43008A046	High Pressure Flare Knock Out Drum Pump	Bomba de Alta Pressão - Chama de Eliminação	P7	301	38	4	8	8	1
≥	PN-5143008	M-B-5412002B	P43008A047	Low Pressure Flare Knock Out Drum Pump	Bomba de Baixa Pressão - Chama de Eliminação	P7	301	38	4	9	9	1
800	PN-5143008	M-B-UC-1225001-A	P43008A054	Auxiliary Oil Pump for Vapor Recovery Unit (VRU) Compressor Motor A	Bomba de Óleo Auxiliar - Unidade de recuperação de vapor (VRU) - Cor	P4	303	40	4	10	10	1
4	PN-5143008	M-UH-5139001-02B	P43008A056	HPU Motor	Motor HPU	P10	301	38	4	11	11	1
m 0	PN-5143008	M-B-UB-1251002B	P43008A051	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lufrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	4	12	12	1
ğΣ	PN-5143008	M-B-UB-5133002	P43008A052	Auxiliary Lube Oil Pump for Well Service Pump	Bomba de lubrificação auxiliar - Bomba de serviço do Poço	P4	303	40	4	13	13	1
143008 FION MC	PN-5143008	M-B-UQ-1261001-02B	P43008A031	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	4	14	14	2
2 0	PN-5143008	M-B-UQ-1261001-03B	P43008A032	Scale Inhibitor (Topside) Pump	Bomba de produto quimico (Topside)	P3	302	39	4	15	15	2
ا ب	PN-5143008	M-B-UQ-1261001-04B	P43008A033	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	4	16	16	2
P D D	PN-5143008	M-B-UQ-1261001-04E	P43008A034	Scale Inhibitor (Subsea) Pump	Bomba de produto quimico (Subsea)	P3	302	39	4	17	17	2
	PN-5143008	M-B-UQ-1261001-08D	P43008A035	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	4	18	18	2
8	PN-5143008	M-B-UQ-1261001-08E	P43008A036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	4	19	19	2
Д/	PN-5143008	M-B-UQ-1262001-04B	P43008A037	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	4	20	20	2
$\Box$	PN-5143008	M-B-UQ-1262001-05B	P43008A038	Produced Water Biostatic Pump	Bomba de produção - Água Bioestática	P3	302	39	4	21	21	2
	PN-5143008	M-B-FL-UT-5331001B	P43008A055	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	4	22	22	1
	PN-5143008	Z-PN-5143008-1	P43008A063	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	4	23	23	2
	PN-5143008	Z-PN-5143008-2	P43008A411	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	4	24	24	2
	PN-5143008	Z-PN-5143008-3	P43008A061	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	4	25	25	2
	PN-5143008	Z-PN-5143008-4	P43008A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	26	26	2
	PN-5143008	Z-PN-5143008-5	P43008A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	27	27	2
	PN-5143008	Z-PN-5143008-6	P43008A410	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	28	28	2



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	PN-5143017	AQ-VV-UC-1231001B-A	P43017B032	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor Principal	P4	303	40	4	29	29	1
	PN-5143017	AQ-VV-UC-1231001B-B	P43017B033	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de oléo de trabalho - Compressor principal de	P4	303	40	4	30	30	1
>	PN-5143017	AQ-VV-UC-1231002B-A	P43017B034	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de	P4	303	40	4	31	31	1
800	PN-5143017	AQ-VV-UC-1231002B-B	P43017B035	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de ex	P4	303	40	4	32	32	1
3	PN-5143017	AQ-VV-UC-1231002C-A	P43017B036	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás de	P4	303	40	4	33	33	1
$\mathcal{C}$	PN-5143017	AQ-VV-UC-1231002C-B	P43017B037	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de gás de ex	P4	303	40	4	34	34	1
Σ	PN-5143017	AQ-VV-UC-1252001B-A	P43017B041	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de lubrificação - Compressor de gás	P4	303	40	4	35	35	1
⊱	PN-5143017	AQ-VV-UC-1252001B-B	P43017B042	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de oléo de trabalho - Compressor de injeção d	P4	303	40	4	36	36	1
AR	PN-5143017	M-B-VV-UC-1231001B	P43017B046	Auxiliary Lube Oil Pump Motor for Main Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor principal de gás	P4	303	40	4	37	37	1
$\vdash$	PN-5143017	M-B-VV-UC-1231002B	P43017B047	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação d	P4	303	40	4	38	38	1
88	PN-5143017	M-B-VV-UC-1231002C	P43017B048	Auxiliary Lube Oil Pump Motor Exportation Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de exportação d	P4	303	40	4	39	39	1
14. AU	PN-5143017	M-B-VV-UC-1252001B	P43017B049	Auxiliary Lube Oil Pump Motor Injection Gas Compressor	Motor da bomba auxiliar de lubrificação - Compressor de injeção de go	P4	303	40	4	40	40	1
5. 5	PN-5143017	PN-UC-1231001B-01	P43017B031	Heater Panel of Seal for Main Gas Compressor	Painel do Aquecedor de Selo - Compressor Principal de Gás	P8	303	40	4	41	41	1
PN- S L	PN-5143017	PN-UC-1231002B-01	P43017B051	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	4	42	42	1
RS P	PN-5143017	PN-UC-1231002C-01	P43017B052	Heater Panel of Seal for Exportation Gas Compressor	Painel do Aquecedor de Selo - Compressor de Gás de Exportação	P8	303	40	4	43	43	1
Ō	PN-5143017	PN-UC-1252001B-01	P43017B039	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeçãode Gás	P11	303	40	4	44	44	1
SS	PN-5143017	Z-PN-5143017-1	P43017B053	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	4	45	45	1
Æ	PN-5143017	Z-PN-5143017-2	P43017B054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	4	46	46	1
亘	PN-5143017	Z-PN-5143017-3	P43017B038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	4	47	47	1
2	PN-5143017	Z-PN-5143017-4	P43017B043	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	4	48	48	1
$\ddot{\circ}$	PN-5143017	Z-PN-5143017-5	P43017B044	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	4	49	49	1
	PN-5143017	Z-PN-5143017-6	P43017B045	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	4	50	50	1
	PN-5143017	CF-SP-UT-1233001B	CFSUT3001B	VSD	Painel A/B VSD do Soprador	P46	307	44	4	51	99	21



	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
	PN-TG-5147001-01-01 9	5QGT - GEN A	PTG111A031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	5	2	2	1
	PN-TG-5147001-01-01 9	5QGT - GEN C	PTG111A032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	5	3	3	1
	PN-TG-5147001-01-01 9	5QMT1 - GEN A	PTG111A033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	5	4	4	1
	PN-TG-5147001-01-01 9	5QMT2 - GEN A	PTG111A034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	5	5	5	1
	PN-TG-5147001-01-01 9	5QMT1 - GEN C	PTG111A035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	5	6	6	1
>	PN-TG-5147001-01-01 9	5QMT2 - GEN C	PTG111A036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	5	7	7	1
4800	PN-TG-5147001-01-01 8	8FL1 - GEN A	PTG111A053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	5	8	8	1
	PN-TG-5147001-01-01 8	BFL1 - GEN C	PTG111A054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	5	9	9	1
n OR	PN-TG-5147001-01-01 8	BQM - GEN A	PTG111A052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	5	10	10	1
001A -01	PN-TG-5147001-01-01 8	8QM - GEN C	PTG111A411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	5	11	11	1
ES -	PN-TG-5147001-01-01 8	8QMD - GEN A	PTG111A037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	5	12	12	1
54001A COMPRE	PN-TG-5147001-01-01 8	8QMD - GEN C	PTG111A038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	5	13	13	1
8 🗏	PN-TG-5147001-01-01 8	8QG1 - GEN A	PTG111A063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	5	14	14	1
54(	PN-TG-5147001-01-01 8	8QG2 - GEN A	PTG111A041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	5	15	15	1
$\sim$ $-$	PN-TG-5147001-01-01 8	8QG1 - GEN C	PTG111A042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	5	16	16	1
- H	PN-TG-5147001-01-01 8	8QG2 - GEN C	PTG111A043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	5	17	17	1
PN-UC-1 E DRIVER	PN-TG-5147001-01-01 8	8EV1 - GEN A	PTG111A044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	5	18	18	1
14 K	PN-TG-5147001-01-01 8	BEV1 - GEN C	PTG111A045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	5	19	19	1
	PN-TG-5147001-01-01 8	BSR - GEN A	PTG111A039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	5	20	20	5
Z	PN-TG-5147001-01-01 8	BSR - GEN C	PTG111A051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	5	21	21	5
RBINI	PN-TG-5147001-01-01 M	I-B-5147001A	PTG111A046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	5	22	22	1
1	PN-TG-5147001-01-01 M	-B-5147001C	PTG111A047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	5	23	23	1
<b>⊢</b>	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-1	PTG111A061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	5	24	24	1
	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-2	PTG111A410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	5	25	25	1
	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-3	PTG111A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	5	26	26	1
	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-4	PTG111A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	5	27	27	1
	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-5	PTG111A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	5	28	28	1
	PN-TG-5147001-01-01 Z-	-PN-TG-5147001-01-01-6	PTG111A062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	5	29	29	1







	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
~	PN-UC-1254001A-01	PN-UC-1254001A-01PNST	#N/A	Panel status	#N/A	#N/A	#N/A	#N/A	5	30	30	22
9	PN-UC-1254001A-01	SPARE 22AB	PUC01AA022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	5	31	31	20
Š	PN-UC-1254001A-01	M-VT-TS-C-UC-1254001A-01	PUC01AA023	Enclosure vent fan motor 1	Ventilador - Motor 1	P37	306	43	5	32	32	20
15 M M M	PN-UC-1254001A-01	M-VT-TS-C-UC-1254001A-02	PUC01AA024	Enclosure vent fan motor 2	Ventilador - Motor 2	P37	306	43	5	33	33	20
- E	PN-UC-1254001A-01	PN-AQ-Z-UC-1254001A	PUC01AA031	Seal Gas Heater Panel	Painel aquecedor gás de selagem	P50	310	47	5	34	34	23
3 5	PN-UC-1254001A-01	PN-C-UC-1254001A	PUC01AA032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Oléo de Lubrificação	P37	306	43	5	35	35	20
188	PN-UC-1254001A-01	SPARE 33AB	PUC01AA033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	5	36	39	20
	PN-UC-1254001A-01	M-B-Z-UC-1254001A-01A	PUC01AA034	Lube Oil Pump A Motor	Motor da Bomba de Lubrificação - A	P37	306	43	5	37	37	20
254 /EN 480'	PN-UC-1254001A-01	M-B-Z-UC-1254001A	PUC01AA035	Hydraulic Start System Pump Motor	Motor da Bomba de inicialização do sistema hidráulico	P50	310	47	5	38	38	23
Z € Z	PN-UC-1254001A-01	SPARE 41AB	PUC01AA041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	5	39	42	20
	PN-UC-1254001A-01	AQ-Z-UC-1254001A	PUC01AA042	Synthetic Reservoir Heater - Lube Oil	Aquecedor Reservatório de óleo sintético de lubrificação	P37	306	43	5	40	40	20
그 및	PN-UC-1254001A-01	SPARE 43AB	PUC01AA043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	5	41	32	20
PN-I	PN-UC-1254001A-01	SPARE 44AB	PUC01AA044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	5	42	40	20
8	PN-UC-1254001A-01	M-Z-UC-1254001A-01B	PUC01AA045	Back Up Lube Oil Pump Motor	Motor backup bomba de óleo de lubrificação	P37	306	43	5	43	43	20
2	PN-UC-1254001A-01	SPARE 46AB	PUC01AA046	Spare (Motor load - 55kw)	Reserva (Carga Motor - 55kW)	P37	306	43	5	44	43	20
_	PN-TG-5147001-01-01	INC. CB PN-TG-5147001-01-01	PTG111A022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	5	45	45	6



	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
	PN-TG-5147001-01-02	NC. CB PN-TG-5147001-01-02	PTG112B022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	6	2	2	6
	PN-TG-5147001-01-02	95QGT - GEN B	PTG112B031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	6	3	3	1
	PN-TG-5147001-01-02	95QGT - GEN D	PTG112B032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrifcação - Gerador de gás	P14	303	40	6	4	4	1
~	PN-TG-5147001-01-02	95QMT1 - GEN B	PTG112B033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	6	5	5	1
80V.	PN-TG-5147001-01-02	95QMT2 - GEN B	PTG112B034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	6	6	6	1
8	PN-TG-5147001-01-02	95QMT1 - GEN D	PTG112B035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	6	7	7	1
C 4	PN-TG-5147001-01-02	95QMT2 - GEN D	PTG112B036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrifcação	P14	303	40	6	8	8	1
$\sim$	PN-TG-5147001-01-02	88FL1 - GEN B	PTG112B053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	6	9	9	1
Σ	PN-TG-5147001-01-02	88FL1 - GEN D	PTG112B054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	6	10	10	1
)2 3E	PN-TG-5147001-01-02	88QM - GEN B	PTG112B411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	6	11	11	1
AG	PN-TG-5147001-01-02	88QM - GEN D	PTG112B052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	6	12	12	1
01 LT/	PN-TG-5147001-01-02	88QMD - GEN B	PTG112B037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	6	13	13	1
	PN-TG-5147001-01-02	88QMD - GEN D	PTG112B038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	6	14	14	1
8 7	PN-TG-5147001-01-02	88QG1 - GEN B	PTG112B063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	6	15	15	1
147001. LOW-VC	PN-TG-5147001-01-02	38QG2 - GEN B	PTG112B041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	6	16	16	1
17 LC 17	PN-TG-5147001-01-02	88QG1 - GEN D	PTG112B042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	6	17	17	1
G-5	PN-TG-5147001-01-02	38QG2 - GEN D	PTG112B043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	6	18	18	1
5 0	PN-TG-5147001-01-02	88EV1 - GEN B	PTG112B044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	6	19	19	1
H	PN-TG-5147001-01-02	88EV1 - GEN D	PTG112B045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	6	20	20	1
PN.	PN-TG-5147001-01-02	BBSR - GEN B	PTG112B039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	6	21	21	5
A E	PN-TG-5147001-01-02	88SR - GEN D	PTG112B051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	6	22	22	5
GE	PN-TG-5147001-01-02	4-B-5147001B	PTG112B046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	6	23	23	1
0	PN-TG-5147001-01-02	4-B-5147001D	PTG112B047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	6	24	24	1
RB	PN-TG-5147001-01-02	?-PN-TG-5147001-01-02-1	PTG112B061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	6	25	25	1
1	PN-TG-5147001-01-02	?-PN-TG-5147001-01-02-2	PTG112B410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	6	26	26	1
-	PN-TG-5147001-01-02	?-PN-TG-5147001-01-02-3	PTG112B055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	6	27	27	1
	PN-TG-5147001-01-02	?-PN-TG-5147001-01-02-4	PTG112B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	6	28	28	1
		?-PN-TG-5147001-01-02-5	PTG112B049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	6	29	29	1
	PN-TG-5147001-01-02	?-PN-TG-5147001-01-02-6	PTG112B062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	6	30	30	1



GE Power Conversion



	Switchgear Panel	Equipment Tag	Short Tag	Description of ProFibus Subscribers	Tradução em português	Customer Item N°	System Item N°	Page N°	Profibus Network N°	Node ID	Slot ID in the EGD Exchange	Template Id
PN	N-UC-1254001B-01	PN-UC-1254001B-01PNST	#N/A	Panel status	#N/A	#N/A	#N/A	#N/A	6	31	31	22
PN	N-UC-1254001B-01	SPARE 22BB	PUC01BB022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	6	32	36	20
_ PN	N-UC-1254001B-01	M-VT-TS-C-UC-1254001B-01	PUC01BB023	Enclosure vent fan motor 1	Ventilador - Motor 1	P37	306	43	6	33	33	20
- 6 PN	N-UC-1254001B-01	M-VT-TS-C-UC-1254001B-02	PUC01BB024	Enclosure vent fan motor 2	Ventilador - Motor 2	P37	306	43	6	34	34	20
는 상 by	N-UC-1254001B-01	PN-AQ-Z-UC-1254001B	PUC01BB031	Seal Gas Heater Panel	Painel aquecedor gás de selagem	P37	310	47	6	35	35	20
≥ ~ PN	N-UC-1254001B-01	PN-C-UC-1254001B	PUC01BB032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Oléo de Lubrificação	P37	306	43	6	36	36	20
DRIV SOR	N-UC-1254001B-01	SPARE 33BB	PUC01BB033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	6	37	41	20
E SS EN	N-UC-1254001B-01	M-B-Z-UC-1254001B-01A	PUC01BB034	Lube Oil Pump A Motor	Motor da Bomba de Lubrificação - A	P37	306	43	6	38	38	20
	N-UC-1254001B-01	M-B-Z-UC-1254001B	PUC01BB035	Hydraulic Start System Pump Motor	Motor da Bomba de inicialização do sistema hidráulico	P50	310	47	6	39	39	23
URB MPT	N-UC-1254001B-01	SPARE 41BB	PUC01BB041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	6	40	44	20
Ď ∑ PN	N-UC-1254001B-01	AQ-Z-UC-1254001B	PUC01BB042	Synthetic Reservoir Heater - Lube Oil	Aquecedor Reservatório de óleo sintético de lubrificação	P37	306	43	6	41	41	20
<b>⊢</b> 8 🗈	N-UC-1254001B-01	SPARE 43BB	PUC01BB043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	6	42	37	20
PN	N-UC-1254001B-01	SPARE 44BB	PUC01BB044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	6	43	42	20
PN	N-UC-1254001B-01	M-Z-UC-1254001B-01B	PUC01BB045	Back Up Lube Oil Pump Motor	Motor backup bomba de óleo de lubrificação	P37	306	43	6	44	44	20
PN	N-UC-1254001B-01	SPARE 46BB	PUC01BB046	Spare (Motor load - 55kw)	Reserva (Carga Motor - 55kW)	P37	306	43	6	45	45	20



## MODIFICATION RECORD

Revision	Date	Author	Details					
0	03/04/2014	P.COTTRET	Initial Issue					
Α	05/26/2014	Y.BENDOUDOUCH Updated after customer comments & Interfaces clai						
В	06/03/2014	Y.BENDOUDOUCH	Updated after Interconnecting Clarifications					
С	08/26/2014	Y.BENDOUDOUCH	Updated after customer comments & clarifications					
D	12/24/2014	Y.BENDOUDOUCH	Updated after customer comments & clarifications					
Е	E 02/27/2015 Y.BENDOUDOUCH Updated after Factory Acceptance Tests							