

TUPI BV	List		I-LI-3010.93-5140-797-GC1-001							
	CLIENT:		E & P					SHEET:		1 of 77
	JOB:		PRESALT FPSOs							
	AREA:		PETROBRAS 67 (P-67)							
ENG-E&P/ IEUEP-II/IEREPL	TITLE:		PMS and Topside Electrical Automation System – I/O List					CORPORATE		
								IEREPL		
DESIGNER:			GE POWER CONVERSION				TECH RESP:			Raimundo Nonato Vasconcelos
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0	Initial Issue: This document replaces the cancelled document I-LI-3010.93-5140-800-GC1-001 at Rev. A									
A	Updated after customer comments and interfaces clarifications									
B	Updated after Interconnecting clarifications									
C	Updated after customer comments & clarifications									
D	Updated after customer comments & clarifications									
E	Updated after Factory Acceptance Tests (FAT)									
F	Certified									
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DATE	03/04/2014	05/26/2014	06/03/2014	08/26/2014	12/24/2014	02/27/2015	06/02/2016			
DESIGN	GE	GE	GE	GE	GE	GE	GE			
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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 : Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface. CSS : Control & Safety System SYNC : Synchronizer 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	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
0	P64	1	TGCP	5XGF	DI	Protection Ground Fault (I/AS)	Proteção Fuga a Terra (I/AS)	TGCP	GTW	S	N			Y					
0	P64	1	TGCP	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	TGCP	GTW	S	N			Y					
0	P64	1	TGCP	TGCP_ON	DI	TGCP ON	TGCP ligado	TGCP	GTW	S	P		Y	Y					
0	P64	1	TGCP	TRIP	DI	Protection Tripped (I/AS)	Proteção Trip (I/AS)	TGCP	GTW	S	N		Y	Y					
0	P64	1	TGCP	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	TGCP	GTW	S	P			Y					
0	P64	1	TGCP	QIN_GAS	DI	GT Fuel Gas Selected	TG - Seleção Combustível - Gás	TGCP	GTW	S	P			Y					
C	P64	1	TGCP	QIN_LIQ	DI	GT Fuel Liquid Selected	TG Seleção Combustível líquido - Gás	TGCP	GTW	S	P			Y					
C	P64	1	TGCP	TGCP_OFF	DI	Unit Stopping	Unidade parar	TGCP	GTW	S	P			Y					
0	P64	1	TGCP	74UAM	DI	Unit Alarm Malfunction (Malfunction =0)	Alarme Mau Funcionamento (Mau Funcionamento=0)	TGCP	GTW	S	N		Y	Y					
0	P64	1	TGCP	77V_2	AI	Output Voltage(V) (Mbus)	Saída de Tensão (V) (Mbus)	TGCP	GTW	S	Y		Y	Y					
0	P64	1	TGCP	77W_2	AI	Active Power (W) (Mbus)	Potência Ativa (W) (Mbus)	TGCP	GTW	S	Y		Y	Y					
0	P64	1	TGCP	77VAR_2	AI	Reactive Power (Var) (Mbus)	Potência Reativa (W) (Mbus)	TGCP	GTW	S	Y		Y	Y					
0	P64	1	TGCP	77F_2	AI	Frequency (Hz) (Mbus)	Frequência (Hz) (Mbus)	TGCP	GTW	S	Y		Y	Y					
0	P64	1	TGCP	77T	AI	TG Air Temperature	TG Ar Temperatura	TGCP	GTW	S				Y					
0	P64	1	TGCP																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P43	1001	TGCP	33L	DI	Control Mode Local (3CMLX)	Controle - Modo Local (3CMLX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	33R	DI	Control Mode Remote (3CMRX)	Controle - Modo Local (3CMRX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	3YN_AUTO	DI	Synchronizing in Auto (3ASYNX)	Sincronização em Modo Automático (3ASYNX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	3YN_OFF	DI	Synchronizing in OFF (3OSYNX)	Sincronização Desligada (3OSYNX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	3YN_MAN	DI	Synchronizing in Manual (3MSYNX)	Sincronização em Modo Manual (3MSYNX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	3DROOP	DI	Operation Mode Droop (3DROOPX)	Modo de Operação Droop (3DROOPX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	3ISO	DI	Operation Mode Isynchronous (3ISOX)	Modo de Operação Isócrono (3ISOX)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	CB_52A	DI	Main CB Open	Disjuntor Principal Aberto	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	CB_52B	DI	Main CB Closed	Disjuntor Principal Fechado	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	CB_69AV	DI	Main CB Available (3GNMCBA)	Disjuntor Principal Disponível (3GNMCBA)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	CB_69NAV	DI	Main CB Not Available (7AGNMCBI)	Disjuntor Principal Não Disponível (7AGNMCBI)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	7ASP_IP	DI	Stop Sequence in Progress (3STPM)	Sequência de Parada em progresso (3STPM)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	69SY	DI	Unit Ready To Synchronise (4SYNC)	Unidade Pronta para Sincronização (4SYNC)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	69LE	DI	Unit Held at Synch. (GLE (4SHH)	Unidade Sincronizada - disponível (4SHH)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	62LOAD	DI	Unit Loaded (4LOAD)	Unidade Carregada (4LOAD)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	42B	DI	GT Starting (To PMS) (3GTST)	TG - Iniciando (Para PMS) (3GTST)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	69ST	DI	GT Starting Available (To PMS) (3GTSA)	TG - Partida Disponível (Para PMS) (3GTSA)	TGCP	PMS	W	P	Y		Y
0	P43	1001	TGCP	GT_AL	DI	GT Common Alarm (To PMS) (3GTCA)	TG - Alarme Comum (Para PMS) (3GTCA)	TGCP	PMS	W	P	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	Reserva DI 01	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI02	DI	Spare Wired DI 02	Reserva DI 02	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI03	DI	Spare Wired DI 03	Reserva DI 03	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI04	DI	Spare Wired DI 04	Reserva DI 04	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI05	DI	Spare Wired DI 05	Reserva DI 05	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI06	DI	Spare Wired DI 06	Reserva DI 06	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI07	DI	Spare Wired DI 07	Reserva DI 07	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI08	DI	Spare Wired DI 08	Reserva DI 08	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	SP_WDI09	DI	Spare Wired DI 09	Reserva DI 09	TGCP	PMS	W	P	Y		
0	P43	1001	TGCP	42_SYN	DO	GT Remote Synchronizing Request (From PMS) (3SYNC)	TG - Requisição Sincronização Remota (Do PMS) (3SYNC)	PMS	TGCP	W	P			Y
0	P43	1001	TGCP	42_ST	DO	GT Remote Start Request (From PMS) (3RSTA)	TG - Requisição Partida Remota (Do PMS) (3RSTA)	PMS	TGCP	W	P			Y
0	P43	1001	TGCP	42_DROOP	DO	Droop Mode Command (From PMS) (3REDOOPX)	Comando Modo Droop (Do PMS) (3REDOOPX)	PMS	TGCP	W	P			Y
0	P43	1001	TGCP	42_ISO	DO	Isynchronous Mode Command (From PMS) (3ISOX)	Comando Modo Isócrono (Do PMS) (3ISOX)	PMS	TGCP	W	P			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			
0	P43	1001	TGCP	V_DEC	DO	Voltage lower Order (pulse-width modulation) - Load Sharing and Remote Synchro	Comando redução de tensão (PWM) - Balanço de Carga e Sincronização Remota	PMS	TGCP	Z	P			
0	P43	1001	TGCP	74PMS_FT	DO	PMS Unit Alarm Malfunction (74RALM)	Mau funcionamento Unidade Alarme PMS (74RALM)	PMS	TGCP	W	P			
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	TGCP	Z	P			
0	P43	1001	TGCP	F_DEC	DO	Frequency lower Order (pulse-width modulation) - Load Sharing and Remote Synchro	Comando redução de frequência (PWM) - Balanço de Carga e Sincronização Remota	PMS	TGCP	Z	P			
0	P43	1001	TGCP	54DB	DO	Dead Bus Status (From PMS) (54DBI)	Status Barra Morta (Do PMS) (54DBI)	PMS	TGCP	W	P			
0	P43	1001	TGCP	42_AVRFF	DO	Start Field Forcing Process (From PMS) (3AVRFF)	Iniciar Field Forcing (Do PMS) (3AVRFF)	PMS	TGCP	W	P			
0	P43	1001	TGCP	42_SP	DO	GT Remote Stop Request (3SRSTO)	TG - Solicitação Remota de Parada (3SRSTO)	PMS	TGCP	W	P			Y
0	P43	1001	TGCP	CLK	DO	Clock Synchronization Pulse (From PMS) (13CLOCK)	Pulso de sincronização do Relógio (Do PMS) (13CLOCK)	PMS	TGCP	W	P			
0	P43	1001	TGCP	SP_WDO01	DO	Spare Wired DO 01	Reserva DO 01	PMS	TGCP	W	P			
0	P43	1001	TGCP	SP_WDO02	DO	Spare Wired DO 02	Reserva DO 02	PMS	TGCP	W	P			
0	P43	1001	TGCP	SP_WDO03	DO	Spare Wired DO 03	Reserva DO 03	PMS	TGCP	W	P			
0	P43	1001	TGCP	77V_1	AI	Output Voltage(V) (Wired)	Saída de Tensão (V) (Cabo)	TGCP	PMS	W				Y
0	P43	1001	TGCP	77T_1	AI	Frequency (Hz) (Wired)	Frequência (Hz) (Cabo)	TGCP	PMS	W				Y
0	P43	1001	TGCP	77W_1	AI	Active Power (W) (Wired)	Potência Ativa (W) (Cabo)	TGCP	PMS	W				Y
0	P43	1001	TGCP	77VAR_1	AI	Reactive Power (Var) (Wired)	Potência Reativa (W) (Cabo)	TGCP	PMS	W				Y
0	P43	1001	TGCP	77PWBG	AI	Generator Power Budget (W) (Spinning Reserve)	Gerador - Power Budget (W)	TGCP	PMS	W				Y
0	P43	1001	TGCP	SP_WAI01	AI	Spare Wired AI 01	Reserva AI 01	TGCP	PMS	W				
0	P43	1001	TGCP	SP_WAI02	AI	Spare Wired AI 02	Reserva AI 02	TGCP	PMS	W				
0	P43	1001	TGCP	65_LSR	AO	Load Share Setpoint from PMS (65FCLSSP)	Setpoint do PMS - Load Share - (65FCLSSP)	PMS	TGCP	W				Y
0	P43	1001	TGCP	77_MWSP	AI	MWATT SETPOINT to PMS (54MWSPCI)	Setpoint MWATT para PMS (54MWSPCI)	TGCP	PMS	W				Y
0	P43	1001	TGCP											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	Y		Y
0	P38	2	13.8 kV incomer from TG	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P38	2	13.8 kV incomer from TG	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
C	P38	2	13.8 kV incomer from TG	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y		Y
C	P38	2	13.8 kV incomer from TG	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y		Y
C	P38	2	13.8 kV incomer from TG	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P	Y		Y
0	P38	2	13.8 kV incomer from TG	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y
0	P38	2	13.8 kV incomer from TG	TRIP	DI	Protection Tripped (LIAS)	Proteção Trip (LIAS)	MMR	GTW	I	P	Y	Y	Y
C	P38	2	13.8 kV incomer from TG	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P	Y	Y	Y
0	P38	2	13.8 kV incomer from TG	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
0	P38	2	13.8 kV incomer from TG	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y
0	P38	2	13.8 kV incomer from TG	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
C	P38	2	13.8 kV incomer from TG	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y
C	P38	2	13.8 kV incomer from TG	67	DI	Protection 67 - AC Directional Overcurrent	Proteção 67 - Sobrecorrente Direcional AC	MMR	GTW	I	P	Y		Y
0	P38	2	13.8 kV incomer from TG	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P	Y		Y
C	P38	2	13.8 kV incomer from TG	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
A	P38	2	13.8 kV incomer from TG	77URS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P38	2	13.8 kV incomer from TG	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P38	2	13.8 kV incomer from TG	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P38	2	13.8 kV incomer from TG	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
A	P38	2	13.8 kV incomer from TG	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P38	2	13.8 kV incomer from TG	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P38	2	13.8 kV incomer from TG	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P38	2	13.8 kV incomer from TG	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P38	2	13.8 kV incomer from TG	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P38	2	13.8 kV incomer from TG	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
0	P38	2	13.8 kV incomer from TG											



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O	P39	3	13.8 kV Tie Circuit Breaker A	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P39	3	13.8 kV Tie Circuit Breaker A	52B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	I	P	Y		Y
C	P39	3	13.8 kV Tie Circuit Breaker A	52A_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	I	P	Y		Y
O	P39	3	13.8 kV Tie Circuit Breaker A	TRIP	DI	Protection Tripped (I/AS)	Proteção Trip (I/AS)	MMR	GTW	I	P	Y	Y	Y
C	P39	3	13.8 kV Tie Circuit Breaker A	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y	Y	Y
C	P39	3	13.8 kV Tie Circuit Breaker A	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
A	P39	3	13.8 kV Tie Circuit Breaker A	69AV_2	DI	Circuit Breaker Available (Ready) (IEC)	Disjuntor Disponível (Pronto) (IEC)	MMR	GTW	I	P	Y	Y	Y
O	P39	3	13.8 kV Tie Circuit Breaker A	67	DI	Protection 67 - AC Directional Overcurrent	Proteção 67 - Sobrecorrente Direcional AC	MMR	GTW	I	P	Y		Y
C	P39	3	13.8 kV Tie Circuit Breaker A	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
O	P39	3	13.8 kV Tie Circuit Breaker A	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P	Y		Y
O	P39	3	13.8 kV Tie Circuit Breaker A	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P	Y		Y
O	P39	3	13.8 kV Tie Circuit Breaker A	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P	Y		Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77CR_A	AI	Current Phase R (A) - Bus A	Corrente Fase R (A) - Barramento A	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77CS_A	AI	Current Phase S (A) - Bus A	Corrente Fase S (A) - Barramento A	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77CT_A	AI	Current Phase T (A) - Bus A	Corrente Fase T (A) - Barramento A	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77VRS_A	AI	Voltage Phases RS (V) - Bus A	Tensão Fase RS (V) - Barramento A	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77VST_A	AI	Voltage Phases ST (V) - Bus A	Tensão Fase ST (V) - Barramento A	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	77VTR_A	AI	Voltage Phases TR (V) - Bus A	Tensão Fase TR (V) - Barramento A	MMR	GTW	I				Y
C	P39	3	13.8 kV Tie Circuit Breaker A	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I			Y	Y
C	P39	3	13.8 kV Tie Circuit Breaker A	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
C	P39	3	13.8 kV Tie Circuit Breaker A	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
C	P39	3	13.8 kV Tie Circuit Breaker A	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
D	P39	3	13.8 kV Tie Circuit Breaker A	77F	AI	Frequency (Hz)	Frequência (Hz)	MMR	GTW	I				Y
A	P39	3	13.8 kV Tie Circuit Breaker A	33L	DI	Local/Remote selection (L = Local/O = Remote)	Seleção Local/Remoto (L = Local/O=Remoto)	MMR	GTW	I	P	Y	Y	Y
C	P39	3	13.8 kV Tie Circuit Breaker A	52C_2	DO	Circuit Breaker Closing Order (IEC)	Disjuntor - Ordem Fechar (IEC)	GTW	MMR	I	P			Y
C	P39	3	13.8 kV Tie Circuit Breaker A	52O_2	DO	Circuit Breaker Opening Order (IEC)	Disjuntor - Ordem Abrir (IEC)	GTW	MMR	I	P			Y
O	P39	3	13.8 kV Tie Circuit Breaker A											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	13.8 kV Tie Circuit Breaker A	69AV_1	DI	Circuit Breaker Available (Ready) (Wired)	Disjuntor Disponível (Pronto) (Cabo)	MMR	PMS	W	P	Y	Y	Y
C	P39	1003	13.8 kV Tie Circuit Breaker A	52A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Y	Y	Y
O	P39	1003	13.8 kV Tie Circuit Breaker A	52C_1	DO	Circuit Breaker Closing Order (Wired)	Disjuntor - Ordem Fechar (Cabo)	SYNC	MMR	Z	P			Y
O	P39	1003	13.8 kV Tie Circuit Breaker A	52O_1	DO	Circuit Breaker Opening Order (Wired)	Disjuntor - Ordem Abrir (Cabo)	PMS	MMR	W	P			Y
A	P39	1003	13.8 kV Tie Circuit Breaker A	VT_FLT_A	DI	Volt. Bus bar A VT Protection Fault	Tensão Barramento A - Falha de Proteção VT	MMR	PMS	Z	N	Y		Y
A	P39	1003	13.8 kV Tie Circuit Breaker A	VT_FLT_B	DI	Volt. Bus bar B VT Protection Fault	Tensão Barramento B - Falha de Proteção VT	MMR	PMS	Z	N	Y		Y
O	P39	1003	13.8 kV Tie Circuit Breaker A	77VR_A	AI	Voltage Bus A phase R (13.8kV to 120V)	Tensão Barramento A - Fase R (13.8kV para 120V)	Busbar	SYNC	Z				
O	P39	1003	13.8 kV Tie Circuit Breaker A	77VS_A	AI	Voltage Bus A phase S (13.8kV to 120V)	Tensão Barramento A - Fase S (13.8kV para 120V)	Busbar	SYNC	Z				
O	P39	1003	13.8 kV Tie Circuit Breaker A	77VT_A	AI	Voltage Bus A phase T (13.8kV to 120V)	Tensão Barramento A - Fase T (13.8kV para 120V)	Busbar	SYNC	Z				
O	P39	1003	13.8 kV Tie Circuit Breaker A											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P47	4	13.8 kV Tie Circuit Breaker B	77VR5_B	AI	Voltage Phases RS (V) - Bus B	Tensão Fase RS (V) - Barramento B	MMR	GTW	I				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77VST_B	AI	Voltage Phases ST (V) - Bus B	Tensão Fase ST (V) - Barramento B	MMR	GTW	I				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77VTR_B	AI	Voltage Phases TR (V) - Bus B	Tensão Fase TR (V) - Barramento B	MMR	GTW	I				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77ICR_B	AI	Current Phase R (A) - Bus B	Corrente Fase R (A) - Barramento B	MMR	GTW	I				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77ICS_B	AI	Current Phase S (A) - Bus B	Corrente Fase S (A) - Barramento B	MMR	GTW	I				Y
A	P47	4	13.8 kV Tie Circuit Breaker B	77ICT_B	AI	Current Phase T (A) - Bus B	Corrente Fase T (A) - Barramento B	MMR	GTW	I				Y
D	P47	4	13.8 kV Tie Circuit Breaker B	77F	AI	Frequency 60Hz	Frequência 60Hz	MMR	GTW	I				Y
C	P47	4	13.8 kV Tie Circuit Breaker B	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y	Y	Y
C	P47	4	13.8 kV Tie Circuit Breaker B	67	DI	Protection 67 - AC Directional Overcurrent	Proteção 67 - Sobrecorrente Direcional AC	MMR	GTW	I	P	Y	Y	Y
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_52B	DI	IS Limiter : Closing release circuit breaker	IS Limiter: Fechamento disjuntor liberado	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_52A	DI	IS Limiter : Tripping Circuit breaker	IS Limiter: Trip disjuntor	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_DOOR	DI	IS Limiter : HV door contact (1=Closed)	IS Limiter: Porta - Alta Tensão - Status (1 = Fechado)	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_TRIP	DI	IS Limiter : Limiter tripped	IS Limiter: Trip limitador	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_UNAV	DI	IS Limiter : Limiter not ready for switching	IS Limiter: Limitador não pronto para operação	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_MS_FLT	DI	IS Limiter : Mains supply voltage missing	IS Limiter: Fonte principal de tensão ausente	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_AS_FLT	DI	IS Limiter : Auxiliary supply voltage missing	IS Limiter: Fonte auxiliar de tensão ausente	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_BLKD	DI	IS Limiter : Limiter blocked	IS Limiter: Limitador bloqueado	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_73WD	DI	IS Limiter : Limiter truck disconnected position	IS Limiter: Limitador desconectado	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_73IN	DI	IS Limiter : Truck service position	IS Limiter: Posição de serviço	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_5_OFF	DI	IS Limiter : Supply voltage missing	IS Limiter: Fonte de tensão ausente	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_5_ON	DI	IS Limiter : Supply voltage present	IS Limiter: Fonte de tensão presente	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_FAN_SP1	DI	IS Limiter : Fan alarm step 1	IS Limiter: Alarme Ventilador - Passo 1	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_FAN_SP2	DI	IS Limiter : Fan alarm step 2	IS Limiter: Alarme Ventilador - Passo 2	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_SP_WD001	DI	Spare 1	Reserva 1	MMR	GTW	I				
A	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_SP_WD002	DI	Spare 2	Reserva 2	MMR	GTW	I				
C	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_TRIP_W	DI	IS Limiter : Limiter tripped	IS Limiter: Trip limitador	MMR	GTW	W				
C	P47	4	13.8 kV Tie Circuit Breaker B	ISLM_74UAM	DI	IS Limiter : Unit Alarm Malfunction	IS Limiter: Mau funcionamento Unidade Alarme	MMR	GTW	W				
D	P47	4	13.8 kV Tie Circuit Breaker B											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P47	1004	13.8 kV Tie Circuit Breaker B	77VR_B	AJ	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	77V5_B	AJ	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	AJ	Voltage Bus B phase T (13.8kV to 120V)	Tensão Barramento B - Fase T (13.8kV para 120V)	Busbar	SYNC	Z				
6	P43	1004	13.8 kV Tie Circuit Breaker-B	65LR-Trip-M	244	65 Limiter-Trip-Imposed	65 Limite-Trip-Imposto	SSMS	GTW	W48				
6	P43	1004	13.8 kV Tie Circuit Breaker-B	65LR-Trip-M4	244	65 Limiter-Trip-Alarm-Malfunction	65 Limite-Trip-Sincronamento-Undade-Alarme	SSMS	GTW	W48				
0	P47	1004	13.8 kV Tie Circuit Breaker B											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	42OI_LS	DO	Load shedding activated (info)	Descarte de Carga Ativado	GTW	MMR	I	P	Y	Y	Y
0	P15	5	13.8kV Motor Gas Compressor	72TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	TRIP_2	DI	Circuit Breaker Tripped (IEC)	Disjuntor Trip (IEC)	MMR	GTW	I	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	I	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	I	P	Y		Y
B	P15	5	13.8kV Motor Gas Compressor	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P15	5	13.8kV Motor Gas Compressor	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P15	5	13.8kV Motor Gas Compressor	69R_2	DI	Circuit Breaker ready (IEC)	Disjuntor Pronto (IEC)	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
C	P15	5	13.8kV Motor Gas Compressor	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y	Y	Y
C	P15	5	13.8kV Motor Gas Compressor	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Manca	MMR	GTW	I	P	Y	Y	Y
0	P15	5	13.8kV Motor Gas Compressor	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	48_LS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y		Y
C	P15	5	13.8kV Motor Gas Compressor	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	I	P	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	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente instantânea	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
C	P15	5	13.8kV Motor Gas Compressor	86	DI	Protection 86 - Lock-Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	87	DI	Protection 87 - Differential Protective	Proteção 87 - Proteção Diferencial	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y		Y
C	P15	5	13.8kV Motor Gas Compressor	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	I	P	Y		Y
D	P15	5	13.8kV Motor Gas Compressor	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	P15	5	13.8kV Motor Gas Compressor	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I	P			Y
A	P15	5	13.8kV Motor Gas Compressor	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I	P			Y
A	P15	5	13.8kV Motor Gas Compressor	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77VR5	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77W_2	AI	Active Power (W) (IEC)	Potência Ativa (W) (IEC)	MMR	GTW	I	P		Y	Y
0	P15	5	13.8kV Motor Gas Compressor	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I	P			Y
0	P15	5	13.8kV Motor Gas Compressor	77TTH	AI	Motor running time (hours)	Motor - Tempo de Funcionamento (horas)	MMR	GTW	I	P			Y
6	P15	6	13.8kV Motor Gas Compressor	60GFP	DI	Protection Ground Fault (IAGS)	Proteção Fuga a Terra (IAGS)	MMR	GTW	I	P	Y		Y
0	P15	5	13.8kV Motor Gas Compressor											



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0	P15	1005	13.8kV Motor Gas Compressor	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Y		Y
0	P15	1005	13.8kV Motor Gas Compressor	42B_1	DI	Circuit Breaker Closed Status (Wired)	Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y		Y
0	P15	1005	13.8kV Motor Gas Compressor	89R_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	DI	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	Y	Y	Y
0	P15	1005	13.8kV Motor Gas Compressor	42O_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 Inibido 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)	Potência Ativa (W) (Cabo)	MMR	PMS	W				Y
0	P15	1005	13.8kV Motor Gas Compressor											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P16	6	13.8kV Motor Pump	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relê de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
A	P16	6	13.8kV Motor Pump	42OI_LS	DO	Load shedding activated info	Descarte de Carga Ativado	GTW	MMR	I	P	Y	Y	Y
0	P16	6	13.8kV Motor Pump	42OI_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	42B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	69RL_2	DI	Circuit Breaker ready (IEC)	Disjuntor Pronto (IEC)	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	TRIP_2	DI	Circuit Breaker Tripped (IEC)	Disjuntor Trip (IEC)	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
C	P16	6	13.8kV Motor Pump	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	75WD	DI	Circuit Breaker Extincted	Disjuntor Extinguido	MMR	GTW	I	P			Y
C	P16	6	13.8kV Motor Pump	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
0	P16	6	13.8kV Motor Pump	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y		Y
C	P16	6	13.8kV Motor Pump	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	48_LS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y		Y
C	P16	6	13.8kV Motor Pump	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relê de bloqueio	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente instantânea	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
C	P16	6	13.8kV Motor Pump	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relê de Bloqueio	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	87	DI	Protection 87 - Differential Protective	Proteção 87 - Proteção Diferencial	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	I	P	Y		Y
D	P16	6	13.8kV Motor Pump	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	P16	6	13.8kV Motor Pump	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
P16		6	13.8kV Motor Pump	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P16	6	13.8kV Motor Pump	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77W_2	AI	Active Power (W) (IEC)	Potência Ativa (W) (IEC)	MMR	GTW	I			Y	Y
0	P16	6	13.8kV Motor Pump	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P16	6	13.8kV Motor Pump	77WF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
C	P16	6	13.8kV Motor Pump	27224	AI	Motor running time (hour)	Motor - Tempo de Funcionamento (horas)	MMR	GTW	I				Y
C	P16	6	13.8kV Motor Pump	69NGF	DI	Protection Ground Fault (IAGS)	Proteção Fuga a Terra (IAGS)	MMR	GTW	I	P	Y		Y
0	P16	6	13.8kV Motor Pump											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
0	P16	1006	13.8kV Motor Pump	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Y		Y					
A	P16	1006	13.8kV Motor Pump	42B_1	DI	Circuit Breaker Closed Status (Wired)	Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y		Y					
P16	1006	13.8kV Motor Pump	42C_RQ	DI	DO	Authorization to Start Request	Autorização Requisição de Partida	MMR	GTW	W	P	Y	Y	Y					
A	P16	1006	13.8kV Motor Pump	42D_LS	DO	Load shedding command	Comando Descarte de Carga	PMS	MMR	W	P		Yd	Y					
0	P16	1006	13.8kV Motor Pump	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	P16	1006	13.8kV Motor Pump	77W_1	AI	Active Power (W) (Wired)	Potência Ativa (W) (Cabo)	MMR	PMS	W				Y					
A	P16	1006	13.8kV Motor Pump	7TRIP_1	DI	Circuit Breaker Tripped (Wired)	Disjuntor Trip (Cabo)	MMR	PMS	W	P	Y		Y					
0	P16	1006	13.8kV Motor Pump	69R_1	DI	Circuit Breaker ready (Wired)	Disjuntor Pronto (Cabo)	MMR	PMS	W	P	Y		Y					
0	P16	1006	13.8kV Motor Pump																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	I	P		Y	Y
0	P17	7	13.8 kV Transformer feeder	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente instantânea	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P			Y
C	P17	7	13.8 kV Transformer feeder	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
C	P17	7	13.8 kV Transformer feeder	87	DI	Protection 87 - Differential Protective	Proteção 87 - Proteção Diferencial	MMR	GTW	I	P			Y
C	P17	7	13.8 kV Transformer feeder	87_1	DI	Protection 87 - Perc - Percent Differential	Proteção 87 - Percentual Diferencial	MMR	GTW	I	P			Y
D	P17	7	13.8 kV Transformer feeder	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	P17	7	13.8 kV Transformer feeder	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P17	7	13.8 kV Transformer feeder	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P17	7	13.8 kV Transformer feeder	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I			Y	Y
0	P17	7	13.8 kV Transformer feeder	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P17	7	13.8 kV Transformer feeder	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
A	P17	7	13.8 kV Transformer feeder	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P17	7	13.8 kV Transformer feeder	52O	DI	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
C	P17	7	13.8 kV Transformer feeder	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P17	7	13.8 kV Transformer feeder	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P17	7	13.8 kV Transformer feeder	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	TRIP	DI	Protection Tripped (LIAS)	Proteção Trip (LIAS)	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder	89AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P			Y
E	P17	7	13.8 kV Transformer feeder	77TR4	AI	Motor running time (hours)	Motor - Tempo de Funcionamento (horas)	MMR	GTW	I				Y
E	P17	7	13.8 kV Transformer feeder	50GFP	DI	Protection Ground Fault (LIAS)	Proteção Fuga a Terra (LIAS)	MMR	GTW	I	P			Y
0	P17	7	13.8 kV Transformer feeder											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	PS1	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	Y		
A	PS1	8	13.8 kV Transformer feeder (Type 2)	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	TRIP	DI	Protection Tripped (LIAS)	Proteção Trip (LIAS)	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	75WD	DI	Circuit breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P	Y		Y
C	PS1	8	13.8 kV Transformer feeder (Type 2)	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P	Y		Y
C	PS1	8	13.8 kV Transformer feeder (Type 2)	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	50G5	DI	Protection 50G5 - Earth Fault current	Proteção 50G5 - Fuga a Terra	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y
C	PS1	8	13.8 kV Transformer feeder (Type 2)	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
D	PS1	8	13.8 kV Transformer feeder (Type 2)	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I			Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I		Y	Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I		Y	Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I		Y	Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I		Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I		Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I		Y		Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P	Y	Y	Y
A	PS1	8	13.8 kV Transformer feeder (Type 2)	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P	Y	Y	Y
E	PS4	8	13.8 kV Transformer feeder (Type 2)	50GF	DI	Protection Ground Fault (LIAS)	Proteção Fuga a Terra (LIAS)	MMR	GTW	H	P	W		W
E	PS4	8	13.8 kV Transformer feeder (Type 2)	223B4	AI	Motor running time (hours)	Motor - Tempo de Funcionamento (horas)	MMR	GTW	H				W
A	PS1	8	13.8 kV Transformer feeder (Type 2)											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI		
0	P21	101	416kV MV Motor Pump type 2	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y		
0	P21	101	416kV MV Motor Pump type 2	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P	Y		Y		
C	P21	101	416kV MV Motor Pump type 2	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	TRIP	DI	Protection Tripped (UAG)	Proteção Trip (UAG)	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	52D	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Manca	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y	Y	Y		
C	P21	101	416kV MV Motor Pump type 2	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y	Y	Y		
C	P21	101	416kV MV Motor Pump type 2	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	I	P			Y		
0	P21	101	416kV MV Motor Pump type 2	50CS	DI	Protection 50CS - Earth Fault current	Proteção 50CS - Fuga a Terra	MMR	GTW	I	P	Y	Y	Y		
C	P21	101	416kV MV Motor Pump type 2	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P			Y		
C	P21	101	416kV MV Motor Pump type 2	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	I	P			Y		
C	P21	101	416kV MV Motor Pump type 2	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y	Y	Y		
C	P21	101	416kV MV Motor Pump type 2	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y	Y	Y		
A	P21	101	416kV MV Motor Pump type 2	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y		
A	P21	101	416kV MV Motor Pump type 2	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y		
A	P21	101	416kV MV Motor Pump type 2	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77VR5	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I			Y	Y		
0	P21	101	416kV MV Motor Pump type 2	77VS1	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I			Y	Y		
0	P21	101	416kV MV Motor Pump type 2	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I			Y	Y		
C	P21	101	416kV MV Motor Pump type 2	77T1	AI	Temperature RTD1	Temperatura RTD1	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77T2	AI	Temperature RTD2	Temperatura RTD2	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T3	AI	Temperature RTD3	Temperatura RTD3	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T4	AI	Temperature RTD4	Temperatura RTD4	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T5	AI	Temperature RTD5	Temperatura RTD5	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T6	AI	Temperature RTD6	Temperatura RTD6	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T7	AI	Temperature RTD7	Temperatura RTD7	MMR	GTW	I				Y		
C	P21	101	416kV MV Motor Pump type 2	77T8	AI	Temperature RTD8	Temperatura RTD8	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I			Y	Y		
0	P21	101	416kV MV Motor Pump type 2	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77WWh	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y		
0	P21	101	416kV MV Motor Pump type 2	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y		
6	P21	101	416kV MV Motor Pump type 2	77GFP	DI	Protection Ground Fault (UAG)	Proteção Fuga a Terra (UAG)	MMR	GTW	I	P	Y	Y	Y		
0	P21	101	416kV MV Motor Pump type 2													



								PMS : Power Management System GTW : Gateway VSD : Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface CSS : Control & Safety System SYNC : Synchronizer 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	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI		
0	P22	102	416kV MV Motor Pump type 3	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y		
0	P22	102	416kV MV Motor Pump type 3	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P	Y		Y		
C	P22	102	416kV MV Motor Pump type 3	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y		
0	P22	102	416kV MV Motor Pump type 3	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	MMR	GTW	I	P			Y		
0	P22	102	416kV MV Motor Pump type 3	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y		
0	P22	102	416kV MV Motor Pump type 3	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y		
0	P22	102	416kV MV Motor Pump type 3	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y		
0	P22	102	416kV MV Motor Pump type 3	TRIP	DI	Protection Tripped (LIAS)	Proteção Trip (LIAS)	MMR	GTW	I	P	Y				
0	P22	102	416kV MV Motor Pump type 3	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y				
0	P22	102	416kV MV Motor Pump type 3	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y		
0	P22	102	416kV MV Motor Pump type 3	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y		Y		
C	P22	102	416kV MV Motor Pump type 3	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y		Y		
C	P22	102	416kV MV Motor Pump type 3	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y		
C	P22	102	416kV MV Motor Pump type 3	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	I	P	Y		Y		
C	P22	102	416kV MV Motor Pump type 3	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y		
A	P22	102	416kV MV Motor Pump type 3	77CR	AI	Current Phase R (AI)	Corrente Fase R (AI)	MMR	GTW	I				Y		
A	P22	102	416kV MV Motor Pump type 3	77CS	AI	Current Phase S (AI)	Corrente Fase S (AI)	MMR	GTW	I				Y		
A	P22	102	416kV MV Motor Pump type 3	77CT	AI	Current Phase T (AI)	Corrente Fase T (AI)	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77VR5	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I			Y	Y		
0	P22	102	416kV MV Motor Pump type 3	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y		
0	P22	102	416kV MV Motor Pump type 3	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T1	AI	Temperature RTD1	Temperatura RTD1	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T2	AI	Temperature RTD2	Temperatura RTD2	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T3	AI	Temperature RTD3	Temperatura RTD3	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T4	AI	Temperature RTD4	Temperatura RTD4	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T5	AI	Temperature RTD5	Temperatura RTD5	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T6	AI	Temperature RTD6	Temperatura RTD6	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T7	AI	Temperature RTD7	Temperatura RTD7	MMR	GTW	I				Y		
C	P22	102	416kV MV Motor Pump type 3	77T8	AI	Temperature RTD8	Temperatura RTD8	MMR	GTW	I				Y		
6	P22	102	416kV MV Motor Pump type 3	86GF	DI	Protection Ground Fault (LIAS)	Proteção Fuga a Terra (LIAS)	MMR	GTW	I	P	Y		Y		
0	P22	102	416kV MV Motor Pump type 3													



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P18	103	416kV MCC Incoming Circuit Breaker	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P18	103	416kV MCC Incoming Circuit Breaker	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P18	103	416kV MCC Incoming Circuit Breaker	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P18	103	416kV MCC Incoming Circuit Breaker	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
0	P18	103	416kV MCC Incoming Circuit Breaker	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P18	103	416kV MCC Incoming Circuit Breaker	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
0	P18	103	416kV MCC Incoming Circuit Breaker	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker	78RP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77VRS	AI	Busbar voltage RS (V)	Tensão Fase RS (V)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77VST	AI	Busbar voltage ST (V)	Tensão Fase ST (V)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77VTR	AI	Busbar voltage TR (V)	Tensão Fase TR (V)	MMR	GTW	I				Y
A	P18	103	416kV MCC Incoming Circuit Breaker	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P18	103	416kV MCC Incoming Circuit Breaker	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P18	103	416kV MCC Incoming Circuit Breaker	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I				Y
C	P18	103	416kV MCC Incoming Circuit Breaker	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente instantânea	MMR	GTW	I				Y
C	P18	103	416kV MCC Incoming Circuit Breaker	59N	DI	Protection 59N - Overvoltage	Proteção 59N- Sobretensão	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I				Y
C	P18	103	416kV MCC Incoming Circuit Breaker	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77W	DI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77VAR	DI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77VA	DI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P18	103	416kV MCC Incoming Circuit Breaker	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y
A	P18	103	416kV MCC Incoming Circuit Breaker	33L	DI	Local/Remote selection (L = Local/O = Remote)	Seleção Local/Remota (L = Local/O=Remota)	MMR	GTW	I	P	Y	Y	Y
C	P18	103	416kV MCC Incoming Circuit Breaker	89G	DI	Protection 89G - Ground Overvoltage	Proteção 89G - Sobretensão	MMR	GTW	I				Y
C	P18	103	416kV MCC Incoming Circuit Breaker	89GF	DI	Protection 89GF - Ground Fault (UAS)	Proteção 89GF - Fuga a Terra (UAS)	MMR	GTW	I	P	Y	Y	Y
0	P18	103	416kV MCC Incoming Circuit Breaker											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P19	104	416kV 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	416kV MCC Tie Circuit Breaker	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
C	P19	104	416kV MCC Tie Circuit Breaker	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P19	104	416kV MCC Tie Circuit Breaker	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P20	104	416kV MCC Tie Circuit Breaker	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
0	P19	104	416kV MCC Tie Circuit Breaker	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P19	104	416kV MCC Tie Circuit Breaker	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
0	P19	104	416kV MCC Tie Circuit Breaker	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P19	104	416kV MCC Tie Circuit Breaker	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P19	104	416kV MCC Tie Circuit Breaker	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y	Y	Y
0	P19	104	416kV MCC Tie Circuit Breaker	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y
0	P19	104	416kV MCC Tie Circuit Breaker	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y
0	P19	104	416kV MCC Tie Circuit Breaker	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
0	P19	104	416kV MCC Tie Circuit Breaker	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y
0	P19	104	416kV MCC Tie Circuit Breaker	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P	Y		Y
0	P19	104	416kV MCC Tie Circuit Breaker	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga o Terra	MMR	GTW	I	P	Y		Y
C	P19	104	416kV MCC Tie Circuit Breaker	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I				Y
A	P19	104	416kV MCC Tie Circuit Breaker	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P19	104	416kV MCC Tie Circuit Breaker	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P19	104	416kV MCC Tie Circuit Breaker	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77VR5	AI	Busbar voltage RS (V)	Tensão Fase RS (V)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77VST	AI	Busbar voltage ST (V)	Tensão Fase ST (V)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77VTR	AI	Busbar voltage TR (V)	Tensão Fase TR (V)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y
0	P19	104	416kV MCC Tie Circuit Breaker	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
A	P19	104	416kV MCC Tie Circuit Breaker	33L	DI	Local/Remote selection (L = Local/O = Remote)	Seleção Local/Remoto (L = Local/O=Remoto)	MMR	GTW	I	P	Y		Y
E	P19	104	416kV MCC Tie Circuit Breaker	27C_A	AOI	Output Current - R (A)	Corrente Saida - Fase R (A)	MMR	GTW	H				W
E	P19	104	416kV MCC Tie Circuit Breaker	27C_S	AOI	Output Current - S (A)	Corrente Saida - Fase S (A)	MMR	GTW	H				W
C	P19	104	416kV MCC Tie Circuit Breaker	27C_T	AOI	Output Current - T (A)	Corrente Saida - Fase T (A)	MMR	GTW	H				W
0	P19	104	416kV MCC Tie Circuit Breaker											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P23	105	416kV Motor type EA04_M	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
C	P23	105	416kV Motor type EA04_M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P23	105	416kV Motor type EA04_M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
C	P23	105	416kV Motor type EA04_M	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
0	P23	105	416kV Motor type EA04_M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P23	105	416kV Motor type EA04_M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P23	105	416kV Motor type EA04_M	TRIP	DI	Protection Tripped (UASI)	Proteção Trip (UAS)	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
0	P23	105	416kV Motor type EA04_M	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y		Y
C	P23	105	416kV Motor type EA04_M	38	DI	Protection 38 - Bearing Protection	Proteção 38 - Proteção Mancal	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	48JS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y		Y
C	P23	105	416kV Motor type EA04_M	49T	DI	Protection 49T - High Temperature	Proteção 49T - Alta Temperatura	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y		Y
C	P23	105	416kV Motor type EA04_M	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
C	P23	105	416kV Motor type EA04_M	51LR	DI	Protection 51LR - Mechanical Jam	Proteção 51LR - Rotor Travado	MMR	GTW	I	P	Y		Y
C	P23	105	416kV Motor type EA04_M	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
D	P23	105	416kV Motor type EA04_M	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	P23	105	416kV Motor type EA04_M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P23	105	416kV Motor type EA04_M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P23	105	416kV Motor type EA04_M	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I			Y	Y
0	P23	105	416kV Motor type EA04_M	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y
0	P23	105	416kV Motor type EA04_M	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T1	AI	Temperature RTD1	Temperatura RTD1	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T2	AI	Temperature RTD2	Temperatura RTD2	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T3	AI	Temperature RTD3	Temperatura RTD3	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T4	AI	Temperature RTD4	Temperatura RTD4	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T5	AI	Temperature RTD5	Temperatura RTD5	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T6	AI	Temperature RTD6	Temperatura RTD6	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T7	AI	Temperature RTD7	Temperatura RTD7	MMR	GTW	I				Y
C	P23	105	416kV Motor type EA04_M	77T8	AI	Temperature RTD8	Temperatura RTD8	MMR	GTW	I				Y
E	P23	105	416kV Motor type EA04_M	60GF	DI	Protection Ground Fault (UAGS)	Proteção Fuga de Terra (UAGS)	MMR	GTW	I	P	Y		Y
0	P23	105	416kV Motor type EA04_M											



								<div>PMS - Power Management System GTW - Gateway VSD - Variable Speed Drive IR - Intelligent Relay MMR - Multifunction Microprocessed Relay TGCP - Turbine Generator Control Panel HMI - Human-Machine Interface. CSS - Control & Safety System SYNC - Synchronizer UCP - Unit Control Panel</div> <div>I=IEC61850 W=Wireless M=Modbus TCP S=Modbus RS485 P=Profibus Z=Wired with synchroniser</div> <div>P=positive N=negative PP=Positive Pulse PM=Positive Maintained NP=Negative Pulse NM=Negative Maintained</div> <div>Y= data time stamped at source</div> <div>Y= data exchanged with CSS</div> <div>Y= data exchanged with HMI</div>						
Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P24	106	416kV Motor type EA01_M11000kVA	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
0	P24	106	416kV Motor type EA01_M11000kVA	42C_RQ	DI	Authorization to Start Request	Autorização Requisição de Partida	MMR	GTW	I	P	Y		Y
0	P24	106	416kV Motor type EA01_M11000kVA	42B_2	DI	Circuit Breaker Closed Status (IEC)	Disjuntor - Status Fechado (IEC)	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	42A_2	DI	Circuit Breaker Open Status (IEC)	Disjuntor - Status Aberto (IEC)	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P24	106	416kV Motor type EA01_M11000kVA	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
C	P24	106	416kV Motor type EA01_M11000kVA	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
0	P24	106	416kV Motor type EA01_M11000kVA	TRIP_2	DI	Protection Tripped (IACS) (IEC)	Proteção Trip (IACS) (IEC)	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	69R_2	DI	Circuit Breaker Available (Ready) (IEC)	Disjuntor Disponível (Pronto) (IEC)	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P		Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	52D	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P		Y	Y
A	P24	106	416kV Motor type EA01_M11000kVA	42Q_LS	DO	Load shedding activated (info)	Descarga de Carga Ativado	GTW	MMR	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	37	DI	Protection 37 - Undercurrent	Proteção 37 - Subcorrente	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y	Y	Y
C	P24	106	416kV Motor type EA01_M11000kVA	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y	Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y	Y	Y
D	P24	106	416kV Motor type EA01_M11000kVA	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y	Y	Y
A	P24	106	416kV Motor type EA01_M11000kVA	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P24	106	416kV Motor type EA01_M11000kVA	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P24	106	416kV Motor type EA01_M11000kVA	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77VR	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77VT	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77VR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77W_2	AI	Active Power (W) (IEC)	Potência Ativa (W) (IEC)	MMR	GTW	I			Y	Y
0	P24	106	416kV Motor type EA01_M11000kVA	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y
0	P24	106	416kV Motor type EA01_M11000kVA	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T1	AI	Temperature RTD1	Temperatura RTD1	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T2	AI	Temperature RTD2	Temperatura RTD2	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T3	AI	Temperature RTD3	Temperatura RTD3	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T4	AI	Temperature RTD4	Temperatura RTD4	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T5	AI	Temperature RTD5	Temperatura RTD5	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T6	AI	Temperature RTD6	Temperatura RTD6	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T7	AI	Temperature RTD7	Temperatura RTD7	MMR	GTW	I				Y
C	P24	106	416kV Motor type EA01_M11000kVA	77T8	AI	Temperature RTD8	Temperatura RTD8	MMR	GTW	I				Y
6	P24	106	416kV Motor type EA01_M11000kVA	50GPF	DO	Protection Ground Fault (IACS)	Proteção Fuga a Terra (IACS)	MMR	GTW	I	P	Y		Y
0	P24	106	416kV Motor type EA01_M11000kVA											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
0	P24	1106	416kV Motor type EA01_M(1000kW)	42B_1	DI	Circuit Breaker Closed Status (Wired)	Disjuntor - Status Fechado (Com fio)	MMR	PMS	W	P	Y		Y					
0	P24	1106	416kV Motor type EA01_M(1000kW)	42A_1	DI	Circuit Breaker Open Status (Wired)	Disjuntor - Status Aberto (Cabo)	MMR	PMS	W	P	Y		Y					
A	P24	1106	416kV Motor type EA01_M(1000kW)	42O_1S	DO	Load shedding command	Comando Descarte de Carga	PMS	MMR	W	P		Yd	Y					
0	P24	1106	416kV 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	416kV Motor type EA01_M(1000kW)	77W_1	AI	Active Power (W) (Wired)	Potência Ativa (W) (Cabo)	MMR	PMS	W				Y					
0	P24	1106	416kV Motor type EA01_M(1000kW)	TRIP_1	DI	Protection Tripped (I/AS)	Proteção Trip (I/AS)	MMR	PMS	W	P	Y							
A	P24	1106	416kV Motor type EA01_M(1000kW)	69R_1	DI	Circuit Breaker ready (Wired)	Disjuntor Pronto (Cabo)	MMR	PMS	W	P	Y		Y					
0	P24	1106	416kV Motor type EA01_M(1000kW)																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P25	107	416kV MCC CB Feeder to Hull	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P25	107	416kV MCC CB Feeder to Hull	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P25	107	416kV MCC CB Feeder to Hull	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
0	P25	107	416kV MCC CB Feeder to Hull	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P25	107	416kV MCC CB Feeder to Hull	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P25	107	416kV MCC CB Feeder to Hull	78RP	DI	Protection Tripped (UASI)	Proteção Trip (UASI)	MMR	GTW	I	P	Y	Y	Y
0	P25	107	416kV MCC CB Feeder to Hull	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y
D	P25	107	416kV MCC CB Feeder to Hull	89	DI	Earth Switch Closed	Chave de Terra fechada	MMR	GTW	I	P	Y		Y
A	P25	107	416kV MCC CB Feeder to Hull	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P25	107	416kV MCC CB Feeder to Hull	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P25	107	416kV MCC CB Feeder to Hull	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77VR5	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P25	107	416kV MCC CB Feeder to Hull	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
0	P25	107	416kV MCC CB Feeder to Hull	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y
0	P25	107	416kV MCC CB Feeder to Hull	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	50G5	DI	Protection 50G5 - Earth Fault current	Proteção 50G5 - Fuga a Terra	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	68	DI	Protection 68 - Blocking relay	Proteção 68 - Relé de bloqueio	MMR	GTW	I	P	Y		Y
C	P25	107	416kV MCC CB Feeder to Hull	86	DI	Protection 86 - Lock Out Relay	Proteção 86 - Relé de Bloqueio	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77WH	AI	Energy Consumption (kWh)	Consumo Energia (kWh)	MMR	GTW	I				Y
0	P25	107	416kV MCC CB Feeder to Hull	77PF	AI	Power Factor (PF)	Fator de Potência (PF)	MMR	GTW	I				Y
6	P25	107	416kV MCC CB Feeder to Hull	50GF	DI	Protection 50GF - Ground Fault (UASI)	Proteção 50GF - Fuga a Terra (UASI)	MMR	GTW	I	P	Y		Y
0	P25	107	416kV MCC CB Feeder to Hull											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
0	P26	200	LV_CDC Incomer	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y					
A	P26	200	LV_CDC Incomer	77_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	I	P			Y					
C	P26	200	LV_CDC Incomer	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y					
C	P26	200	LV_CDC Incomer	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y					
0	P26	200	LV_CDC Incomer	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y					
0	P26	200	LV_CDC Incomer	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y					
0	P26	200	LV_CDC Incomer	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y					
0	P26	200	LV_CDC Incomer	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y					
0	P26	200	LV_CDC Incomer	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y	Y	Y					
0	P26	200	LV_CDC Incomer	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y					
A	P26	200	LV_CDC Incomer	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y					
0	P26	200	LV_CDC Incomer	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y					
0	P26	200	LV_CDC Incomer	77VAR	AI	Reactive Power (Var)	Potência Reativa (Var)	MMR	GTW	I				Y					
0	P26	200	LV_CDC Incomer	77VA	AI	Apparent Power (VA)	Potência Aparente (VA)	MMR	GTW	I				Y					
A	P26	200	LV_CDC Incomer	51L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	I	P	Y		Y					
C	P26	200	LV_CDC Incomer	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y					
C	P26	200	LV_CDC Incomer	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente instantânea	MMR	GTW	I	P	Y		Y					
C	P26	200	LV_CDC Incomer	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y					
A	P26	200	LV_CDC Incomer	5XGF_ST1	DI	Ground Fault Stage 1	Fuga à Terra Estágio 1	MMR	GTW	I	P	Y		Y					
A	P26	200	LV_CDC Incomer	5XGF_ST2	DI	Ground Fault Stage 2	Fuga à Terra Estágio 2	MMR	GTW	I	P	Y		Y					
A	P26	200	LV_CDC Incomer	5XGF_FLT	DI	Ground Fault device failed	Falha Fuga à terra	MMR	GTW	I	P	Y		Y					
E	P26	200	LV_CDC Incomer	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga à Terra (UAS)	MMR	GTW	I	P	Y	Y	Y					
0	P26	200	LV_CDC Incomer																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P27	201	LV_CDC Tie	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y
A	P27	201	LV_CDC Tie	27_CTR	DI	Control Voltage Failure	Falha na Tensão de Controle	MMR	GTW	W	P	Y	Y	Y
0	P27	201	LV_CDC Tie	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P27	201	LV_CDC Tie	52D	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
0	P27	201	LV_CDC Tie	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P27	201	LV_CDC Tie	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P27	201	LV_CDC Tie	TRIP	DI	Protection Tripped (UASI)	Proteção Trip (UASI)	MMR	GTW	I	P	Y	Y	Y
0	P27	201	LV_CDC Tie	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y
C	P27	201	LV_CDC Tie	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y
C	P27	201	LV_CDC Tie	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y
C	P27	201	LV_CDC Tie	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y
C	P27	201	LV_CDC Tie	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y		Y
C	P27	201	LV_CDC Tie	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P27	201	LV_CDC Tie	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P27	201	LV_CDC Tie	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P27	201	LV_CDC Tie	33L	DI	Local/Remote selection (1 = Local/0 = Remote)	Seleção Local/Remoto (1 = Local/0=Remoto)	MMR	GTW	I	P	Y		Y
C	P27	201	LV_CDC Tie	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
C	P27	201	LV_CDC Tie	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
C	P27	201	LV_CDC Tie	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
C	P27	201	LV_CDC Tie	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
C	P27	201	LV_CDC Tie	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
C	P27	201	LV_CDC Tie	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P27	201	LV_CDC Tie											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI	
0	P28	202	LV_CDC Motor Type EA01-M	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	N	Y		Y	
0	P28	202	LV_CDC Motor Type EA01-M	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P		Y	Y	
0	P28	202	LV_CDC Motor Type EA01-M	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P		Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y	Y	Y	
0	P28	202	LV_CDC Motor Type EA01-M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y	
0	P28	202	LV_CDC Motor Type EA01-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y	
0	P28	202	LV_CDC Motor Type EA01-M	TRIP	DI	Protection Tripped (UASI)	Proteção Trip (UASI)	MMR	GTW	I	P	Y	Y	Y	
0	P28	202	LV_CDC Motor Type EA01-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	66	DI	Protection 66 - Excessive number of start	Proteção 66 - Número Excessivo de Partidas	MMR	GTW	I	P	Y	Y	Y	
C	P28	202	LV_CDC Motor Type EA01-M	66_1	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	I	P	Y			
C	P28	202	LV_CDC Motor Type EA01-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y	
C	P28	202	LV_CDC Motor Type EA01-M	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y	
C	P28	202	LV_CDC Motor Type EA01-M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y	
A	P28	202	LV_CDC Motor Type EA01-M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y	
A	P28	202	LV_CDC Motor Type EA01-M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y	
A	P28	202	LV_CDC Motor Type EA01-M	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y	
A	P28	202	LV_CDC Motor Type EA01-M	77URS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y	
A	P28	202	LV_CDC Motor Type EA01-M	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y	
A	P28	202	LV_CDC Motor Type EA01-M	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y	
0	P28	202	LV_CDC Motor Type EA01-M	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y	
E	P28	202	LV_CDC Motor Type EA01-M	50GF	DI	Protection Ground Fault (UASI)	Proteção Fuga a Terra (UASI)	MMR	GTW	I	P	Y		Y	
0	P28	202	LV_CDC Motor Type EA01-M												



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
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	Y		Y					
1	P29	203	LV_CDC Motor Type EA02-M	520	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	MMR	MMR	H	P			Y					
0	P29	203	LV_CDC Motor Type EA02-M	520	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y					
0	P29	203	LV_CDC Motor Type EA02-M	50XS	DI	Protection 50XS - Earth fault current	Proteção 50XS - Fuga a Terra	MMR	GTW	I	P	Y	Y	Y					
0	P29	203	LV_CDC Motor Type EA02-M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y					
0	P29	203	LV_CDC Motor Type EA02-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y					
0	P29	203	LV_CDC Motor Type EA02-M	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y	Y	Y					
C	P29	203	LV_CDC Motor Type EA02-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	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	I	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	I	P	Y		Y					
C	P29	203	LV_CDC Motor Type EA02-M	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y					
0	P29	203	LV_CDC Motor Type EA02-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y					
C	P29	203	LV_CDC Motor Type EA02-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y					
C	P29	203	LV_CDC Motor Type EA02-M	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y					
C	P29	203	LV_CDC Motor Type EA02-M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y					
A	P29	203	LV_CDC Motor Type EA02-M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y					
A	P29	203	LV_CDC Motor Type EA02-M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y					
A	P29	203	LV_CDC Motor Type EA02-M	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y					
A	P29	203	LV_CDC Motor Type EA02-M	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y					
A	P29	203	LV_CDC Motor Type EA02-M	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y					
A	P29	203	LV_CDC Motor Type EA02-M	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y					
0	P29	203	LV_CDC Motor Type EA02-M	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y					
1	P29	203	LV_CDC Motor Type EA02-M	50GFP	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	H	P	Y		Y					
0	P29	203	LV_CDC Motor Type EA02-M																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	Disjuntor - Ordem Fechar	GTW	MMR	I	P			Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P			Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	50XS	DI	Protection 50XS - Earth Fault current	Proteção 50XS - Fuga a Terra	MMR	GTW	I	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	I	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	I	P	Y	Y	Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	TRIP	DI	Protection Tripped (UASI)	Proteção Trip (UASI)	MMR	GTW	I	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	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	I	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	I	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	I	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	I	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	I	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	I	P	Y		Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P35	204	LV_CDC Motor Subsea Type EA02-M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P35	204	LV_CDC Motor Type EA02-M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P35	204	LV_CDC Motor Type EA02-M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P35	204	LV_CDC Motor Type EA02-M	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P35	204	LV_CDC Motor Type EA02-M	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
6	P35	204	LV_CDC Motor Subsea Type EA02-M	50GF	DI	Protection Ground Fault (UASI)	Proteção Fuga a Terra (UASI)	MMR	GTW	I	P	Y		Y
0	P35	204	LV_CDC Motor Subsea Type EA02-M											



Equipment Type

GE Energy
Power Conversion

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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
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	Y		Y					
C	P32	205	LV_CDC Motor Type EA04-M	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	I	P	Y	Y	Y					
0	P32	205	LV_CDC Motor Type EA04-M	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y					
0	P32	205	LV_CDC Motor Type EA04-M	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y					
0	P32	205	LV_CDC Motor Type EA04-M	78IP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y		Y					
C	P32	205	LV_CDC Motor Type EA04-M	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y		Y					
C	P32	205	LV_CDC Motor Type EA04-M	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	P	Y	Y	Y					
C	P32	205	LV_CDC Motor Type EA04-M	48_IS	DI	Protection 48 - Incomplete sequence	Proteção 48 - Sequência Incompleta	MMR	GTW	I	P	Y		Y					
C	P32	205	LV_CDC Motor Type EA04-M	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y	Y	Y					
C	P32	205	LV_CDC Motor Type EA04-M	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	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	I	P	Y	Y	Y					
C	P32	205	LV_CDC Motor Type EA04-M	66_L	DI	Protection 66 - Time Between Starts	Proteção 66 - Tempo Entre Partidas	MMR	GTW	I	P	Y	Y	Y					
0	P32	205	LV_CDC Motor Type EA04-M	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y					
C	P32	205	LV_CDC Motor Type EA04-M	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y					
C	P32	205	LV_CDC Motor Type EA04-M	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y					
C	P32	205	LV_CDC Motor Type EA04-M	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y					
A	P32	205	LV_CDC Motor Type EA04-M	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y					
A	P32	205	LV_CDC Motor Type EA04-M	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y					
A	P32	205	LV_CDC Motor Type EA04-M	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y					
A	P32	205	LV_CDC Motor Type EA04-M	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y					
A	P32	205	LV_CDC Motor Type EA04-M	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y					
A	P32	205	LV_CDC Motor Type EA04-M	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y					
0	P32	205	LV_CDC Motor Type EA04-M	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y					
0	P32	205	LV_CDC Motor Type EA04-M	84GF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	I	P	Y		Y					
0	P32	205	LV_CDC Motor Type EA04-M																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	I	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	I	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	I	P	Y	Y	Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	78IP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	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	I	P	Y	Y	Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	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	I	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	I	P	Y		Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75WD	DI	Circuit Breaker Extended	Disjuntor Estendido	MMR	GTW	I	P			Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75TS	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
A	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	23L	DI	Local/Remote selection (L = Local/O = Remote)	Seleção Local/Remoto (L = Local/O=Remoto)	MMR	GTW	I	P	Y	Y	Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM	54GF	DI	Protection Ground Fault (UAG)	Proteção Fuga a Terra (UAG)	MMR	GTW	I	P	Y		Y
0	P33	206	LV_CDC Hydraulic Panel Feeder Type EA04-NM											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	I	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	I	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	I	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	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	I	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	I	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	I	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	I	P	Y		Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75WD	DI	Circuit Breaker Extended	Disjuntor Estendido	MMR	GTW	I	P			Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75TS	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
C	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM	50GF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	Id	P	Y		Y
0	P34	207	LV_CDC Heater Panel Feeder Type EA04-NM											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	I	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P30	208	LV_CDC Feeder Type EA03-NM	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	46	DI	Protection 46 - Reverse Phase	Proteção 46 - Fase Reversa	MMR	GTW	I	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	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	49	DI	Protection 49 - Thermal overload	Proteção 49 - Sobrecarga Térmica	MMR	GTW	I	P	Y	Y	Y
C	P30	208	LV_CDC Feeder Type EA03-NM	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	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	I	P	Y	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	I	P	Y		Y
0	P30	208	LV_CDC Feeder Type EA03-NM	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P30	208	LV_CDC Feeder Type EA03-NM	75TST	DI	Circuit Breaker In Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P30	208	LV_CDC Feeder Type EA03-NM	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P30	208	LV_CDC Feeder Type EA03-NM	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P30	208	LV_CDC Feeder Type EA03-NM	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				Y
C	P30	208	LV_CDC Feeder Type EA03-NM	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	MMR	GTW	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	MMR	GTW	I	P	Y		Y
C	P30	208	LV_CDC Feeder Type EA03-NM	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	MMR	GTW	I	P	Y		Y
E	P30	208	LV_CDC Feeder Type EA03-NM	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	MMR	GTW	I	P	Y		Y
0	P30	208	LV_CDC Feeder Type EA03-NM	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	MMR	GTW	I	P	Y		Y



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	Y		Y
C	P36	209	LV_CDC MCC Feeder Type F2	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y
C	P36	209	LV_CDC MCC Feeder Type F2	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y
C	P36	209	LV_CDC MCC Feeder Type F2	75CAT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	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	I	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	MMR	GTW	I	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y	Y	Y
C	P36	209	LV_CDC MCC Feeder Type F2	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	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	I	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	I	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	I	P	Y		Y
0	P36	209	LV_CDC MCC Feeder Type F2	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P	Y		Y
0	P36	209	LV_CDC MCC Feeder Type F2	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P	Y		Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y
A	P36	209	LV_CDC MCC Feeder Type F2	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VR5	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VS1	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y
A	P36	209	LV_CDC MCC Feeder Type F2	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y
0	P36	209	LV_CDC MCC Feeder Type F2	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I				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	I	P	Y	Y	Y
E	P36	209	LV_CDC MCC Feeder Type F2	50GFP	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	MMR	GTW	I	P	Y	Y	Y
0	P36	209	LV_CDC MCC Feeder Type F2											



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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	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	5XGF	DI	Protection Ground Fault (UAS)	Proteção Fuga a Terra (UAS)	UCP	GTW	W	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	75CNT	DI	Circuit Breaker Position (1=Connected / 0 = Disconnected)	Circuito posição do disjuntor (1 = Ligado / 0 = Desligado)	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	75CHG	DI	Circuit Breaker Spring Status (1=Charged / 0 = Discharged)	Circuito estado do disjuntor da Primavera (1 = Cobrado / 0 = descarregado)	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	69R	DI	Ready to Operate	Pronto para Operação	IR	GTW	M	P		Y	Y
0	P48	210	LV Transformer Incomer 52.33	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77W	AI	Active Power (kW)	Potência Ativa (kW)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77VRS	AI	Voltage Phases RS (V)	Tensão Fase RS (V)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77VST	AI	Voltage Phases ST (V)	Tensão Fase ST (V)	IR	GTW	M	P			Y
0	P48	210	LV Transformer Incomer 52.33	77VTR	AI	Voltage Phases TR (V)	Tensão Fase TR (V)	IR	GTW	M	P			Y
0	P48	240	LV Transformer Incomer 52.33	52A	AI	Output Voltage	Saída de Tensão 52	IR	GTW	M	P		48	48
0	P48	240	LV Transformer Incomer 52.33	52B	AI	Current	Corrente	IR	GTW	M	P		48	48
0	P48	240	LV Transformer Incomer 52.33	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	M	P		48	48
0	P48	210	LV Transformer Incomer 52.33											





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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	74WD	DI	Protection Relay Watchdog (0 = Failure)	Relé de Proteção - Watchdog (0 = Falha)	MMR	GTW	W	P	Y							
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	50GS	DI	Protection 50GS - Earth Fault current	Proteção 50GS - Fuga a Terra	MMR	GTW	Id	P	Y		Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	MMR	GTW	I	P	Y		Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	MMR	GTW	I	P	Y		Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	TRIP	DI	Protection Tripped (UASI)	Proteção Trip (UASI)	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	27	DI	Protection 27 - Undervoltage	Proteção 27 - Subtensão	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	50BF	DI	Protection 50BF - Breaker Failure	Proteção 50BF - Falha no Disjuntor	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	50	DI	Protection 50 - Instantaneous Overcurrent	Proteção 50 - Sobrecorrente Instantânea	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	51	DI	Protection 51 - Overcurrent Time delayed	51- Sobre-corrente temporizada (tempo definido)	MMR	GTW	I	P	Y		Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	75WD	DI	Circuit Breaker Extracted	Disjuntor Extraído	MMR	GTW	I	P			Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	75TST	DI	Circuit Breaker in Test Position	Disjuntor - Posição Teste	MMR	GTW	I	P			Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	75CNT	DI	Circuit Breaker Connected	Disjuntor Conectado	MMR	GTW	I	P			Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77CR	AI	Current Phase R (A)	Corrente Fase R (A)	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77CS	AI	Current Phase S (A)	Corrente Fase S (A)	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77CT	AI	Current Phase T (A)	Corrente Fase T (A)	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77VRS	AI	Voltage Phases RS	Tensão Fase RS	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77VST	AI	Voltage Phases ST	Tensão Fase ST	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77VTR	AI	Voltage Phases TR	Tensão Fase TR	MMR	GTW	I				Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	77W	AI	Active Power (W)	Potência Ativa (W)	MMR	GTW	I	P	Y		Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	MMR	I	P	Y	Y	Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	MMR	I	P	Y	Y	Y					
C	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)	50GF	DI	Protection Ground Fault (UASI)	Proteção Fuga a Terra (UASI)	MMR	GTW	Id	P	Y		Y					
A	PS2	212	LV_CDC Feeder Type EA03-NM (Type2)																



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI		
D	P42	300	LV_UC Panel Status	52_OP (exchanged from	DI	MCC in Operation	CCM em Operação	IR	GTW	P	P	N		Y		
O	P42	300	LV_UC Panel Status	52_MAINT2 (exchanged	DI	MCC in Maintenance	CCM em Manutenção	IR	GTW	P	P	N		Y		
O	P42	300	LV_UC Panel Status	5XGF_AL	DI	Protection Ground Fault (UASI) - Prewarning	Proteção Fuga à terra (UASI) - Pré Alarme	IR	GTW	P	P	N		Y		
A	P42	300	LV_UC Panel Status	5XGF_TRIP	DI	Protection Ground Fault (UASI) - Warning	Proteção Fuga à terra (UASI) - Alarme	IR	GTW	P	P	N		Y		
B	P42	300	LV_UC Panel Status	52_MAINT	DI	Switch position __ I= maintenance / O= operation __	Posição Chave (Manutenção = O Operação = I)	UCP	GTW	W	P	N	Y	Y		
B	P42	300	LV_UC Panel Status	27_CTRL1	DI	Undervoltage Bus Bar F1/F2	Subtensão Barramento F1/F2	UCP	GTW	W	P	N	Y	Y		
B	P42	300	LV_UC Panel Status	27_CTRL2	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		
D	P42	300	LV_UC Panel Status	52ACV_STA	DI	General Emergency Stop	Parada de Emergência - Comando Local	IR	GTW	P	P	N		Y		
O	P42	300	LV_UC Panel Status													



Equipment Type

GE Energy
Power Conversion

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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
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	Y	X Only for Type EA-02-11 and EA-03-11
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	52O	DO	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	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	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	IR	GTW	P	P	N	Y	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	TRIP	DI	Protection Tripped (IASI)	Proteção Trip (IASI)	IR	GTW	P	P	N	Y	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N	Y	Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	75TST	DI	Drawer in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P		N		Y
0	P1 & P2 & P7 & P6 & P10	301	LV MCC Motor type 1											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P3	302	LV MCC Motor type 2	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	P	PP	N	Y	Y
0	P3	302	LV MCC Motor type 2	52O	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 (IASI)	Proteção Trip (IASI)	IR	GTW	P	P	N	Y	Y
0	P3	302	LV MCC Motor type 2	69AV	DI	Circuit Breaker Available (Ready)	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			Y
0	P3	302	LV MCC Motor type 2	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P		N		Y
0	P3	302	LV MCC Motor type 2	5XGF	DI	Protection Ground Fault (IASI)	Proteção Fuga a Terra (IASI)	IR	GTW	P	P	N		Y
0	P3	302	LV MCC Motor type 2											



Equipment Type

GE Energy
Power Conversion

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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N	Y	Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N	Y	Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	TRP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N		Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N		Y
0	P4 & P8 & P11 & P12 & P14	303	LV MCC Motor type 3	75TST	DI	Drawer in test position	Cavete em Posição Teste	IR	GTW	P	P			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											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	PS	304	LV MCC type EA03	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	PP	N		Y
A		304	LV MCC type EA03	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N	Y	Y
0		304	LV MCC type EA03	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N	Y	Y
0		304	LV MCC type EA03	TRIP	DI	Protection Tripped (IAGI)	Proteção Trip (IAGI)	IR	GTW	P	P	N		Y
0		304	LV MCC type EA03	69AU	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N		Y
0		304	LV MCC type EA03	75TST	DI	Drawer in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0		304	LV MCC type EA03	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P		N		Y
0		PS	304	LV MCC type EA03										



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0		P13	LV Turbogenerator Hydraulic Start-up Pump Motor	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	SS_42B	DI	Soft starter - motor running	Soft Starters - Motor Funcionando	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	SS_42A	DI	Soft Starter - motor stopped	Soft Starters - Parado	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	SS_TRIP	DI	Soft Starter Protection Actuated	Soft Starter - Proteção acionada	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	75TST	DI	Drawer in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	TRIP	DI	Protection Tripped (UAS)	Proteção Trip (UAS)	IR	GTW	P	P	N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P		N		Y
0	P13	305	LV Turbogenerator Hydraulic Start-up Pump Motor											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P37	306	LV_UC Type EA04	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	P	P			Y
0	P37	306	LV_UC Type EA04	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	GTW	IR	P	P			Y
0	P37	306	LV_UC Type EA04	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P	N	Y	Y
0	P37	306	LV_UC Type EA04	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N		Y
0	P37	306	LV_UC Type EA04	78IP	DI	Protection Tripped (IAS)	Proteção Trip (IAS)	IR	GTW	P	P	N	Y	Y
A	P37	306	LV_UC Type EA04	33L	DI	Local/Remote selection (L = Local/O = Remote)	Seleção Local/Remoto (L = Local/O=Remoto)	IR	GTW	P	P			Y
A	P37	306	LV_UC Type EA04	EMCV_STP	DI	Local Emergency Stop	Parada de Emergência - Comando Local	IR	GTW	P	P			Y
C	P37	306	LV_UC Type EA04	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P	P			Y
0	P37	306	LV_UC Type EA04											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P46	307	LV VSD Pump Type 2	5XGF	DI	Protection Ground Fault	Proteção Fuga a Terra	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	49	DI	Protection Tripped (UASI - 49 - Motor Overload (72)	Proteção Trip (UASI - 49 - Sobrecarga do Motor (72)							
0	P46	307	LV VSD Pump Type 2	46	DI	Protection Tripped (UASI - 46 - Motor Current Unbalance (76)	Proteção Trip (UASI - 46 - Desbalançamento de Corrente no motor(76)							
0	P46	307	LV VSD Pump Type 2	49RTD	DI	Protection Tripped (UASI - 49RTD - Motor Overtemperature (78)	Proteção Trip (UASI - 49RTD - Sobreaquecimento do Motor (78)							
0	P46	307	LV VSD Pump Type 2	52	DI	Motor Running Status (Run =1 / Stop=0)	Motor Funcionando (1= Funcionando / 0= Parar)	UCP	GTW	Pd	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2	69R	DI	Ready to Start	Pronto Para Partir	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	74UAM	DI	(UAM) Unit Alarm Malfunction	Mau funcionamento Unidade Alarme (UAM)	UCP	GTW	P	P	N	Y	Y
C	P46	307	LV VSD Pump Type 2	77V	AI	Output Voltage(V)	Saída de Tensão (V)	UCP	GTW	P	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2	77W	AI	Active Power (W)	Potência Ativa (W)	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	77C	AI	Average Current (A)	Corrente Média (A)	UCP	GTW	P	P	N		Y
0	P46	307	LV VSD Pump Type 2	77F	AI	Frequency (Hz)	Frequência (Hz)	UCP	GTW	P	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2	52G	DI	Low Insulation Ground Fault	Baixa Isolação Fuga à Terra	UCP	GTW	Pd	P	N	Y	Y
0	P46	307	LV VSD Pump Type 2											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P41	308	LV_MCC Incomer CB (F650 + P487)	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P		Y	Y
O	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)	5NGF	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
O	P41	308	LV_MCC Incomer CB (F650 + P487)	75WD	DI	Circuit breaker Extracted	Disjuntor Extraído	IR	GTW	P	P			Y
O	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	Circuit Breaker Connected	Disjuntor Conectado	IR	GTW	P	P			Y
O	P41	308	LV_MCC Incomer CB (F650 + P487)	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P				Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	IR	GTW	P	P			Y
A	P41	308	LV_MCC Incomer CB (F650 + P487)	52O	DO	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	IR	GTW	P				Y
D	P41	308	LV_MCC Incomer CB (F650 + P487)	52	DI	Circuit Breaker Status 11 = CB Closed, 0 = Opened	Disjuntor Status 11 = Fechado, 0 = Aberto	IR	GTW	W				
O	P41	308	LV_MCC Incomer CB (F650 + P487)											



								PMS : Power Management System GTW : Gateway VSD : Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface. CSS : Control & Safety System SYNC : Synchronizer 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	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P9	309	LV Feeder type EA02-NM	52C	DO	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	GTW	IR	P	PP	N	Y	
0	P9	309	LV Feeder type EA02-NM	52O	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	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	52A	DI	Circuit Breaker Open Status	Disjuntor - Status Aberto	IR	GTW	P	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	TRIP	DI	Protection Tripped (IASI)	Proteção Trip (IASI)	IR	GTW	P	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	69AV	DI	Circuit Breaker Available (Ready)	Disjuntor Disponível (Pronto)	IR	GTW	P	P	N	Y	Y
0	P9	309	LV Feeder type EA02-NM	75TST	DI	Drawer in test position	Gaveta em Posição Teste	IR	GTW	P	P			Y
0	P9	309	LV Feeder type EA02-NM	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P		N		Y
0	P9	309	LV Feeder type EA02-NM	5XGF	DI	Protection Ground Fault (IASI)	Proteção Fuga a Terra (IASI)	IR	GTW	P	P	N		Y
0	P9	309	LV Feeder type EA02-NM											



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Rev	Customer Item n°	System Item n°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P50	310	LV_UC/EADA/CSS_15	52B	DI	Circuit Breaker Closed Status	Disjuntor - Status Fechado	IR	GTW	P	P		Y	Y
A	P50	310	LV_UC/EADA/CSS_15	TRIP	DI	Protection Tripped (I/AS)	Proteção Trip (I/AS)	IR	GTW	P	P		Y	Y
A	P50	310	LV_UC/EADA/CSS_15	EMCV_STP	DI	Local Emergency Stop	Parada de Emergência - Comando Local	IR	GTW	P	P			Y
A	P50	310	LV_UC/EADA/CSS_15	77C	AI	Average Current (AI)	Corrente Média (AI)	IR	GTW	P	P			Y
D	P50	310	LV_UC/EADA/CSS_15	52C	DO#	Circuit Breaker Closing Order	Disjuntor - Ordem Fechar	IR	GTW	#	#			#
D	P50	310	LV_UC/EADA/CSS_15	52D	DO#	Circuit Breaker Opening Order	Disjuntor - Ordem Abrir	IR	GTW	#	P			#
O	P50	310	LV_UC/EADA/CSS_15											



								PMS : Power Management System GTW : Gateway VSD :Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface. CSS : Control & Safety System SYNC : Synchronizer 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	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	P49	400	LV Regeneration Gas Heater	STG1	DI	STAGE 1 ON	Estágio 1 - Ligado	IR	GTW	W	P		Y	Y
0	P49	400	LV Regeneration Gas Heater	STG2	DI	STAGE 2 ON	Estágio 2 - Ligado	IR	GTW	W	P		Y	Y
0	P49	400	LV Regeneration Gas Heater	STG3	DI	STAGE 3 ON	Estágio 3 - Ligado	IR	GTW	W	P		Y	Y
0	P49	400	LV Regeneration Gas Heater	STG4	DI	STAGE 4 ON	Estágio 4 - Ligado	IR	GTW	W	P		Y	Y
0	P49	400	LV Regeneration Gas Heater											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
0	New Item	402	Fire and Gas system	ESD	DI	ESD Signal	Sinal ESD	CSS	PMS	W	P	Y	Y	Y
0	New Item	402	Fire and Gas system											



								PMS : Power Management System GTW : Gateway VSD : Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface. CSS : Control & Safety System SYNC : Synchronizer 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	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	PS3	403	LV Panel Status Type 1	S2_MAINT	DI	Switch position _ 1=maintenance / 0= operation_	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	Y	Y	Y
A	PS3	403	LV Panel Status Type 1	S7_CTRL1	DI	Control voltage 1 (120 vac) - failure	Controle de tensão 1 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	PS3	403	LV Panel Status Type 1	S7_CTRL2	DI	Control voltage 2 (120 vac) - failure	Controle de tensão 2 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	PS3	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	PS3	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
A	PS3	403	LV Panel Status Type 1											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	P54	404	LV Panel Status Type 2	52_MAINT	DI	Switch position _ 1=maintenance / 0= operation_	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	Y	Y	Y
A	P54	404	LV Panel Status Type 2	27_CTR1	DI	Control voltage 1 (120 vac) - failure	Controle de tensão 1 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	P54	404	LV Panel Status Type 2	27_CTR2	DI	Control voltage 2 (120 vac) - failure	Controle de tensão 2 (120Vac) - Falha	UCP	GTW	W	P	Y	Y	Y
A	P54	404	LV Panel Status Type 2											



								PMS : Power Management System GTW : Gateway VSD : Variable Speed Drive IR : Intelligent Relay MMR : Multifunction Microprocessed Relay TGCP : Turbine Generator Control Panel HMI : Human-Machine Interface. CSS : Control & Safety System SYNC : Synchronizer 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	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
A	PSS	405	MV Panel Status	52_MAINT	DI	Switch position _ 1=maintenance / 0= operation_	Posição Chave (Manutenção = 0 Operação = 1)	UCP	GTW	W	P	Y	Y	Y
B	PSS	405	MV Panel Status	27_CTRA	DI	Control Voltage Failure A	Falha na Tensão de Controle (A)	UCP	GTW	W	P	Y	Y	Y
B	PSS	405	MV Panel Status	27_CTRB	DI	Control Voltage Failure B	Falha na Tensão de Controle (B)	UCP	GTW	W	P	Y	Y	Y
A	PSS	405	MV Panel Status											



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Rev	Customer Item N°	System Item N°	Item Description	I/O Type	I/O Nature	I/O Description	Tradução em português	From	To	I/O Origin	I/O Logic	Time Stamp	CSS	HMI
B	P56	406	LV Panel Status Type 3	INS_FTA	DI	Insulation failure - Bus A	Falha de isolação - Barramento A	UCP	GTW	W	P	Y	Y	Y
B	P56	406	LV Panel Status Type 3	INS_FTB	DI	Insulation failure - Bus B	Falha de isolação - Barramento B	UCP	GTW	W	P	Y	Y	Y
B	P56	406	LV Panel Status Type 3											



-PNST

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-5143001	A	INCOMING 52-1A	P43001AK20	PN-5143001 Incoming from GE-TG-5147001A (IEC)	Alimentador GE-TG-5147001A - Painei PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	A	INCOMING 52-1C	P43001AK19	PN-5143001 Incoming from GE-TG-5147001C (IEC)	Alimentador GE-TG-5147001C - Painei PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	B	INCOMING 52-1D	P43001BK15	PN-5143001 Incoming from GE-TG-5147001D (IEC)	Alimentador GE-TG-5147001D - Painei PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	B	INCOMING 52-1B	P43001BK14	PN-5143001 Incoming from GE-TG-5147001B (IEC)	Alimentador GE-TG-5147001B - Painei PN-5143001	P38	2	5	F650
Z-5140005	PN-5143001	A	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	B	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 painei PN-5143001	P55	405	52	wired
Z-5140005	PN-5143001	A	TF-5143001A	P43001AK21	Production Transformer 13.8-4.16kV	Transformador de Produção 13.8 - 4.16kV	P17	7	14	T35
Z-5140005	PN-5143001	A	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	A	M-C-UC-1231001A (GTW)	P43001AK26	Main Gas Compressor (IEC)	Compressor Principal de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	A	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)	P43001AK27	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	A	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	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	PN-5143001	B	TF-5143002B	P43001BK03	Production Transformer 13.8-0.48-0.48kV	Transformador de produção 13.8-0.48kV	P51	8	15	F650
Z-5140005	PN-5143001	B	TF-5143501B	P43001BK02	Hull Transformer 13.8-0.48-0.48kV	Casco - Transformador 13.8-0.48-0.48kV	P51	8	15	F650
Z-5140005	PN-5143001	B	M-B-1251002B (GTW)	P43001BK09	Main Injection Water Pump (IEC)	Bomba principal de Injeção de Água (IEC)	P16	6	12	M60
Z-5140005	PN-5143001	B	M-B-5133002 (GTW)	P43001BK08	Well Service Pump (IEC)	Poço - Bomba de Serviço (IEC)	P16	6	12	M60
Z-5140005	PN-5143001	B	M-B-UT-1251001-01B (GTW)	P43001BK07	Sulphate Removal Booster Pump (IEC)	Remoção de Sulfato - Bomba de Pressurização - (IEC)	P16	6	12	M60
Z-5140005	PN-5143001	B	M-C-UC-1231001B (GTW)	P43001BK06	Main Gas Compressor (IEC)	Compressor Principal de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	B	M-C-UC-1231002B (GTW)	P43001BK05	Exportation Gas Compressor (IEC)	Compressor de Exportação de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	B	M-C-UC-1231002C (GTW)	P43001BK11	Exportation Gas Compressor (IEC)	Compressor de Exportação de Gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	B	M-C-UC-1252001B (GTW)	P43001BK10	Injection Gas Compressor (IEC)	Compressor de injeção de gás (IEC)	P15	5	10	M60
Z-5140005	PN-5143001	B	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	B	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	B	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 painei PN-5143002	P55	405	52	wired
Z-5140005	PN-5143002	A	PN-5143507A	P43002AK28	Medium-Voltage Hull MCC 4.16kV	Casco - CCM 4.16kV Média Tensão	P25	107	23	F650
Z-5140005	PN-5143002	A	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	A	M-B-1251001A	P43002AK26	Booster Injection Water Pump	Bomba de Injeção De Água - Pressurizador	P21	101	16	M60
Z-5140005	PN-5143002	A	M-B-5111001A (GTW)	P43002AK25	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
Z-5140005	PN-5143002	A	M-B-5111001C (GTW)	P43002AK24	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
Z-5140005	PN-5143002	A	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	A	M-B-5124002A	P43002AK21	Cooling Water Circulation Pump	Bomba de circulação de água de refrigeração	P22	102	17	M60
Z-5140005	PN-5143002	A	M-B-5125001A	P43002AK20	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
Z-5140005	PN-5143002	A	M-UC-Z-5412001A	P43002AK19	Flare Gas Recovery System	Sistema de Recuperação de Gás do Queimador	P23	105	20	M60
Z-5140005	PN-5143002	A	M-B-5125001C	P43002AK18	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
Z-5140005	PN-5143002	A	Z-PN-5143002A-1 (GTW)	P43002AK01	Spare (1000 kW) (IEC)	Reserva (1000kW) (IEC)	P24	106	21	M60
Z-5140005	PN-5143002	B	PN-5143507B	P43002BK13	Medium-Voltage Hull MCC 4.16kV	Casco - CCM 4.16kV Média Tensão	P25	107	23	F650
Z-5140005	PN-5143002	B	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	B	M-B-1251001B	P43002BK11	Booster Injection Water Pump	Bomba de Injeção De Água - Pressurizador	P21	101	16	M60
Z-5140005	PN-5143002	B	M-B-1251001C	P43002BK10	Booster Injection Water Pump	Bomba de Injeção De Água - Pressurizador	P21	101	16	M60
Z-5140005	PN-5143002	B	M-B-5111001B (GTW)	P43002BK09	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
Z-5140005	PN-5143002	B	M-B-5111001D (GTW)	P43002BK08	Sea Water Lift Pump (IEC)	Bomba de elevação de Água do Mar (IEC)	P24	106	21	M60
Z-5140005	PN-5143002	B	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
Z-5140005	PN-5143002	B	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	B	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	B	M-B-5125001B	P43002BK03	Hot Water Circulation Pump	Bomba de circulação de água quente	P21	101	16	M60
Z-5140005	PN-5143002	B	M-UC-Z-5412001B	P43002BK02	Flare Gas Recovery System	Sistema de Recuperação de Gás do Queimador	P23	105	20	M60
Z-5140005	PN-5143001	A	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	A	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	B	Z-PN-5143002B-1 (GTW)	P43002BK17	Spare (1000 kW) (IEC)	Reserva (1000kW) (IEC)	P24	106	21	M60
Z-5140005	PN-P-UT-1233001-01A	A	PN-P-UT-1233001-01A	PUT11AAPNA	INCOMING 52.33 - MMR	Alimentador 52.33 - MMR	P48	210	34	
Z-5140005	PN-P-UT-1233001-01A	A	P-UT-1233001-01A	PUT11AAPA	Regeneration Gas Heater A	Regenerador de Gás - Aquecedor A	P49	400	48	
Z-5140005	PN-P-UT-1233001-01B	A	PN-P-UT-1233001-01B	PUT11BAPNB	INCOMING 52.33 - MMR	Alimentador 52.33 - MMR	P48	210	34	
Z-5140005	PN-P-UT-1233001-01B	A	P-UT-1233001-01B	PUT11BAPB	Regeneration Gas Heater B	Regenerador de Gás - Aquecedor B	P49	400	48	



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GE
Power Conversion

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-5143003	A	INCOMING 52-3A	P43003A111	PN-5143003 Incommer Busbar A	PN-5143003 - Alimentador Barramento A	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	INCOMING 52-3B	P43003B131	PN-5143003 Incommer Busbar B	PN-5143003 - Alimentador Barramento B	P26	200	24	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003		TIE-BREAKER 52-3C	P43003121	PN-5143003 Tie	PN-5143003 - TIE	P27	201	25	F650-B-F-B-F1-G0-HI-6H
Z-5140004	PN-5143003		PN-5143003-PNST	P43003PNST	Panel status PN-5143003	Status do painel PN-5143003	P53	403	50	wired
Z-5140004	PN-5143003	A	PN-5143004	P43003A101	Low-Voltage Production MCC 480V	CCM 480V Baixa Tensão	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	PN-5143016	P43003A091	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-5143003	A	PN-AC-5252002A	P43003A051	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-5143003	A	M-B-1223003A	P43003A041	Oil Transfer Pump	Bomba de transferência de óleo	P28	202	26	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	M-B-UQ-1261001-07A	P43003A031	Hydrate Inhibitor (Subseal) Pump	Bomba Inibidor de Hidrato (Subsea)	P35	204	28	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	M-B-Z-UT-1251002A	P43003A021	Vacuum Pump	Bomba de vácuo	P32	205	29	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	M-SP-UT-1233001A	P43003A011	Regeneration Gas Blower	Regenerador de Gás - Soprador	P32	205	29	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	M-B-UD-5122001A	P43003A081	Fresh Water (SWRO) Pump Motor	Motor Bomba Água Doce (SWRO)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	Z-PN-5143003A-1	P43003A071	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	A	Z-PN-5143003A-2	P43003A061	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	PN-5143005	P43003B141	Low-Voltage Production MCC 480V	CCM 480V Baixa Tensão	P36	209	33	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	PN-UC-1254001A-01	P43003B151	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-5143003	B	M-B-5336001A	P43003B191	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-5143003	B	M-B-1223003C	P43003B201	Oil Transfer Pump	Bomba de transferência de óleo	P28	202	26	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	M-B-1223005A	P43003B161	Test Separator Pump	Bomba Separador de Teste	P28	202	26	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	M-B-UQ-1251001A	P43003B221	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-5143003	B	PN-AC-5252002C	P43003B231	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-5143003	B	M-B-1223002A	P43003B211	Oil Dehydrator Recirculation Water Pump	Bomba de Recirculação de Água - Desidratador de óleo	P28	202	26	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	Z-PN-5143003B-1	P43003B171	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	Z-PN-5143003B-2	P43003B181	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	M-B-UT-1251001-02A	P43003B241	Membrane Cleaning Pump	Bomba Limpeza de Membrana	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143003	B	M-B-UD-5122001C	P43003B251	Fresh Water (SWRO) Pump Motor	Motor Bomba Água Doce (SWRO)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143004		PN-5143004-PNST	P43004PNST	Panel status PN-5143004	Status do painel PN-5143004	P54	404	51	wired
Z-5140004	PN-5143004	A	M-B-5115001A	P43004A068	Dilution Water Pump	Bomba de água de diluição	P1	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	M-B-5125002A	P43004A055	Utility Hot Water Circulation Pump	Bomba Recirculação de Água Quente Utilitária	P2	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-01A	P43004A031	Defoamer Pump	Bomba anti-espumante	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-02A	P43004A032	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-03A	P43004A033	Scale Inhibitor (Topside) Pump	Bomba de produto químico (Topside)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-04A	P43004A034	Scale Inhibitor (Subseal) Pump	Bomba de produto químico (Subseal)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-05A	P43004A035	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-06A	P43004A036	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-08A	P43004A037	H2S Scavenger (Subsea) Pump	Bomba Sequestreante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-09A	P43004A511	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalto	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1261001-10A	P43004A041	Gas Corrosion Inhibitor Pump	Bomba Inibição - Gás Corrosivo	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1262001-01A	P43004A042	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1262001-02A	P43004A043	Emulsion Inhibitor Dilution Water Pump	Bomba de diluição - Inibidor de emulsão	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1262001-03A	P43004A044	Produced Water Scale Inhibitor Pump	Bomba de produto químico do sistema de agua produzida (Inibidor de Incrustação)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1263001-01A	P43004A045	Oxygen Scavenger Pump	Bomba Sequestrante de Oxigênio	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1263001-02A	P43004A046	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-1263001-03A	P43004A047	Injection Water Biocide Pump	Bomba de Injeção de água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-UT-1251001-01A	P43004A056	Biocide Dosing Pump Motor	Bomba de dosagem - Biocida	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	TF-5143003A	P43004A058	Topside Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143004	A	TF-5143005	P43004A059	Topside Heat Tracing Transformer 480- 220V	Transformador 480V-220V - Traço Elétrico Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143004	A	M-EXT-5255003A	P43004A053	Laboratory - Hood 5 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-EXT-5255004	P43004A057	Laboratory - Hood 1 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 1 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-EXT-5255005	P43004A067	Laboratory - Hood 3 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 3 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-VT-5254002A	P43004A061	Laboratory - Hood 5 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-VT-5254003	P43004A062	Laboratory - Hood 3 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 3 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-VT-5254005A	P43004A063	Topside CO2 Central Storage - Supply Fan	Ventilador da Fonte - Central de armazenamento de CO2 Topside	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-VT-B-5133002	P43004A064	Compressor Enclosure Fan Motor	Motor do Ventilador - Compartimento de Proteção do Compressor	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-UT-1251001-02A	P43004A065	Scale Inhibitor Dosing Pump Motor	Motor bomba dosadora de produto químico	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	M-B-UQ-UT-1251001-03A	P43004A066	Chlorine Scavenger Dosing Pump Motor	Motor bomba dosadora de sequestrante de cloro	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	Z-PN-5143004-1	P43004A069	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143004	A	Z-PN-5143004-2	P43004A038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	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-5143004	A	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 + LTME
Z-5140004	PN-5143004	A	Z-PN-5143004-5	P43004A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143004	A	Z-PN-5143004-6	P43004A510	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005		PN-5143005-PNST	P43005PNST	Panel status PN-5143005	Status do painel PN-5143005	P54	404	51	wired
Z-5140004	PN-5143005	B	CX-TO-1223001	P43005B059	Pre-Oil Dehydrator Junction Box	Caixa de Junção - Desidratador pré-óleo	P6	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	PN-AC-5252003A	P43005B062	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-5115003A	P43005B044	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	LTMR100PFM + LTME
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	B	M-B-UB-1251002A	P43005B046	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lubrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UQ-1261001-04C	P43005B031	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UQ-1261001-08C	P43005B032	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UQ-1261001-10B	P43005B033	Gas Corrosion Inhibitor Pump	Bomba Inibição - Gás Corrosivo	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UQ-1262001-04A	P43005B034	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-B-UQ-1262001-05A	P43005B035	Produced Water Biostatic Pump	Bomba de produção - Água Bioestática	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-VT-5254001A	P43005B047	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	TF-5143004A	P43005B061	Topsides Normal Transformer 480V-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143005	B	Z-5241001	P43005B064	Nitrogen Generator Unit	Unidade Geração de Nitrogênio	P8	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	M-B-FL-UT-5331001A	P43005B063	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	M-EXT-5255003B	P43005B051	Laboratory - Hood 5 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-EXT-5255006	P43005B052	Laboratory - Hood 4 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 4 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-EXT-5255007	P43005B053	Laboratory - Hood 2 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 2 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-VT-5254002B	P43005B054	Laboratory - Hood 5 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-VT-5254004	P43005B055	Laboratory - Hood 4 - Supply Fan	Ventilador de alimentação - Chaminé 4 - Laboratório	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	M-VT-5254005B	P43005B056	Topside CO2 Central Storage - Supply Fan	Ventilador da Fonte - Central de armazenamento de CO2 Topside	P2	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	AQ-B-UB-1251002A	P43005B040	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-5143005	B	Z-PN-5143005-1	P43005B410	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143005	B	Z-PN-5143005-2	P43005B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	Z-PN-5143005-3	P43005B065	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	Z-PN-5143005-4	P43005B037	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	Z-PN-5143005-5	P43005B038	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143005	B	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	B	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	A	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	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	M-B-1223005B	P43006A081	Test Separator Pump	Bomba Separador de Teste	P28	202	26	F650-B-F-B-F1-G1-HI-6H
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	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	Z-PN-5143006A-1	P43006A071	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	Z-PN-5143006A-2	P43006A061	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	A	M-B-UT-1251001-02B	P43006A011	Membrane Cleaning Pump	Bomba Limpeza de Membrana	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	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	B	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	B	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	B	M-B-UQ-1261001-07B	P43006B201	Hydrate Inhibitor (Subsea) Pump	Bomba Inibidor de Hidrato (Subsea)	P35	204	28	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	M-B-Z-UT-1251002B	P43006B211	Vacuum Pump	Bomba de vácuo	P32	205	29	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	M-SP-UT-1233001B	P43006B221	Regeneration Gas Blower	Regenerador de Gás - Soprador	P32	205	29	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	PN-UH-1210001	P43006B161	Hydraulic Power Unit Vessel Valves Panel	Painel de Válvulas - Unidade de Força Hidráulica do Navio	P33	206	30	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	Z-PN-5143006B-1	P43006B171	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	Z-PN-5143006B-2	P43006B181	Spare (Motor Load - 220 kW)	Reserva (Carga Motórica - 220kW)	P30	208	32	F650-B-F-B-F1-G1-HI-6H
Z-5140004	PN-5143006	B	M-B-UD-5122001B	P43006B231	Fresh Water (SWRO) Pump Motor	Motor Bomba Água Doce (SWRO)	P30	208	32	F650-B-F-B-F1-G1-HI-6H



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-5143007		PN-5143007-PNST	P43007PNST	Panel status PN-5143007	Status do painel PN-5143007	P54	404	51	wired
Z-5140004	PN-5143007	B	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	LTMR08PFM
Z-5140004	PN-5143007	B	M-A-UQ-1262001	P43007B031	Dilution Blending Unit	Unidade de Diluição e Homogeneização	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 + LTME
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	B	M-B-UQ-1261001-01B	P43007B032	Defoamer Pump	Bomba anti-espumante	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1261001-04D	P43007B033	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1261001-05B	P43007B034	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1261001-06B	P43007B035	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1261001-08B	P43007B036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
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-UQ-1262001-01B	P43007B038	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1262001-02B	P43007B041	Emulsion Inhibitor Dilution Water Pump	Bomba de diluição - Inibidor de emulsão	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1262001-03B	P43007B042	Produced Water Scale Inhibitor Pump	Bomba de produto químico do sistema de agua produzida (Inibidor de Incrustação)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1263001-01B	P43007B043	Oxygen Scavenger Pump	Bomba Sequestrante de Oxigênio	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1263001-02B	P43007B044	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-1263001-03B	P43007B045	Injection Water Biocide Pump	Bomba de Injeção de água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-UT-1251001-01B	P43007B064	Biocide Dosing Pump Motor	Bomba de dosagem - Biocida	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-UH-5139001-02A	P43007B068	HPU Motor	Motor HPU	P10	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-UH-5139001-01	P43007B055	HPU Motor	Motor HPU	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-FT-UT-1251001-02A	P43007B053	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	M-FT-UT-1251001-02C	P43007B054	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	TF-5143003B	P43007B065	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143007	B	M-B-UQ-UT-1251001-02B	P43007B062	Scale Inhibitor Dosing Pump Motor	Motor bomba dosadora de produto químico	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	M-B-UQ-UT-1251001-03B	P43007B063	Chlorine Scavenger Dosing Pump Motor	Motor bomba dosadora de sequestrante de cloro	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-1	P43007B076	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-2	P43007B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-3	P43007B075	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-4	P43007B046	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-5	P43007B047	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	Z-PN-5143007-6	P43007B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143007	B	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	A	CX-TO-1223002	P43008A064	Oil Dehydrator Junction Box	Caixa Junção - Desidratador de óleo	P6	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	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	A	M-B-5115003B	P43008A045	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	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	A	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	A	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	A	M-UH-5139001-02B	P43008A056	HPU Motor	Motor HPU	P10	301	38	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UB-1251002B	P43008A051	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lubrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	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	A	M-B-UQ-1261001-02B	P43008A031	Demulsifier Pump	Bomba de demulsificação	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1261001-03B	P43008A032	Scale Inhibitor (Topside) Pump	Bomba de produto químico (Topside)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1261001-04B	P43008A033	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1261001-04E	P43008A034	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1261001-08D	P43008A035	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1261001-08E	P43008A036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1262001-04B	P43008A037	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	M-B-UQ-1262001-05B	P43008A038	Produced Water Biostatic Pump	Bomba de produção - Água Biostática	P3	302	39	LTMR08PFM + LTME
Z-5140004	PN-5143008	A	TF-5143004B	P43008A053	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	LTMR08PFM
Z-5140004	PN-5143008	A	M-B-FL-UT-5331001B	P43008A055	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	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-5143008	A	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	LTMRO8PFM + LTME
Z-5140004	PN-5143008	A	Z-PN-5143008-1	P43008A063	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	LTMRO8PFM + LTME
Z-5140004	PN-5143008	A	Z-PN-5143008-2	P43008A411	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	Z-PN-5143008-3	P43008A061	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	Z-PN-5143008-4	P43008A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	Z-PN-5143008-5	P43008A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	LTMR100PFM + LTME
Z-5140004	PN-5143008	A	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	A	AQ-VV-UC-1231001A-A	P43016A033	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1231001A-B	P43016A034	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de óleo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1231001C-A	P43016A035	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1231001C-B	P43016A036	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de óleo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1231002A-A	P43016A037	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1231002A-B	P43016A038	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1252001A-A	P43016A039	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	AQ-VV-UC-1252001A-B	P43016A310	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	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	A	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	A	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	A	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	A	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	A	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	A	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	A	PN-UC-1252001A-01	P43016A056	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeção de Gás	P11	303	40	LTMRO8PFM + LTME
Z-5140004	PN-5143016	A	Z-PN-5143016-1	P43016A311	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	LTMRO8PFM + LTME
Z-5140004	PN-5143016	A	Z-PN-5143016-2	P43016A054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	Z-PN-5143016-3	P43016A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	Z-PN-5143016-4	P43016A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	Z-PN-5143016-5	P43016A052	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143016	A	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	B	AQ-VV-UC-1231001B-A	P43017B032	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor Principal de Gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1231001B-B	P43017B033	Working Oil Chamber Heater for Main Gas Compressor	Aquecedor Reservatório de óleo de trabalho - Compressor principal de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1231002B-A	P43017B034	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1231002B-B	P43017B035	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1231002C-A	P43017B036	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1231002C-B	P43017B037	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de gás de exportação	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1252001B-A	P43017B041	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	AQ-VV-UC-1252001B-B	P43017B042	Working Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de injeção de gás	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	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	B	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	B	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	B	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	B	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	B	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	B	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	B	PN-UC-1252001B-01	P43017B039	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeção de Gás	P11	303	40	LTMRO8PFM + LTME
Z-5140004	PN-5143017	B	Z-PN-5143017-1	P43017B053	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	LTMRO8PFM + LTME
Z-5140004	PN-5143017	B	Z-PN-5143017-2	P43017B054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	Z-PN-5143017-3	P43017B038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	Z-PN-5143017-4	P43017B043	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	Z-PN-5143017-5	P43017B044	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	LTMR100PFM + LTME
Z-5140004	PN-5143017	B	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	A	INC. CB PN-TG-5147001-01-01	PTG111A022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	F650 + P485



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-5147001-01-01	A	95QGT - GEN A	PTG111A031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	95QGT - GEN C	PTG111A032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	95QMT1 - GEN A	PTG111A033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	95QMT2 - GEN A	PTG111A034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	95QMT1 - GEN C	PTG111A035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	95QMT2 - GEN C	PTG111A036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88FL1 - GEN A	PTG111A053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88FL1 - GEN C	PTG111A054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QM - GEN A	PTG111A052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QM - GEN C	PTG111A411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QMD - GEN A	PTG111A037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QMD - GEN C	PTG111A038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QG1 - GEN A	PTG111A063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QG2 - GEN A	PTG111A041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QG1 - GEN C	PTG111A042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88QG2 - GEN C	PTG111A043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88EV1 - GEN A	PTG111A044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88EV1 - GEN C	PTG111A045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88SR - GEN A	PTG111A039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	88SR - GEN C	PTG111A051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	M-B-5147001A	PTG111A046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	M-B-5147001C	PTG111A047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-1	PTG111A061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-2	PTG111A410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-3	PTG111A055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-4	PTG111A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-5	PTG111A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-01	A	Z-PN-TG-5147001-01-01-6	PTG111A062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
Z-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
Z-5140004	PN-TG-5147001-01-02	B	INC. CB PN-TG-5147001-01-02	PTG112B022	Incoming Circuit Breaker	Disjuntor do Alimentador	P41	308	45	F650 + P485
Z-5140004	PN-TG-5147001-01-02	B	95QGT - GEN B	PTG112B031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	95QGT - GEN D	PTG112B032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	95QMT1 - GEN B	PTG112B033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	95QMT2 - GEN B	PTG112B034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	95QMT1 - GEN D	PTG112B035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	95QMT2 - GEN D	PTG112B036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88FL1 - GEN B	PTG112B053	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88FL1 - GEN D	PTG112B054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QM - GEN B	PTG112B411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QM - GEN D	PTG112B052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QMD - GEN B	PTG112B037	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QMD - GEN D	PTG112B038	Mineral Lube Oil Mist Eliminator Fan Motor	Óleo Lubrificante Mineral - Motor do Eliminador de Umidade	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QG1 - GEN B	PTG112B063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QG2 - GEN B	PTG112B041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QG1 - GEN D	PTG112B042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88QG2 - GEN D	PTG112B043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88EV1 - GEN B	PTG112B044	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88EV1 - GEN D	PTG112B045	Enclosure Ventilation Fan 1 for Main Turbogenerator	Turbogerador principal - Ventilador 1 do Compartimento de Proteção	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88SR - GEN B	PTG112B039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	88SR - GEN D	PTG112B051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	M-B-5147001B	PTG112B046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	M-B-5147001D	PTG112B047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	Z-PN-TG-5147001-01-02-1	PTG112B061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	LTMR08PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	Z-PN-TG-5147001-01-02-2	PTG112B410	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	Z-PN-TG-5147001-01-02-3	PTG112B055	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	Z-PN-TG-5147001-01-02-4	PTG112B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMR100PFM + LTME
Z-5140004	PN-TG-5147001-01-02	B	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	B	Z-PN-TG-5147001-01-02-6	PTG112B062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	LTMRI00PFM + LTME
Z-5140004	PN-UC-1254001A-01	A	PN-UC-1254001A-01-PNST	P4001APNST	Panel status	Status do painel	P42	300	37	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	SPARE 22AB	PUC01AA022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	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	A	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	A	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	A	PN-C-UC-1254001A	PUC01AA032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Óleo de Lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	SPARE 33AB	PUC01AA033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	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	A	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	A	SPARE 41AB	PUC01AA041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	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	A	SPARE 43AB	PUC01AA043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	SPARE 44AB	PUC01AA044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001A-01	A	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	A	SPARE 46AB	PUC01AA046	Spare (Motor load - 55kw)	Reserva (Carga Motor - 55kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	PN-UC-1254001B-01-PNST	P4001BPNST	Panel status	Status do painel	P42	300	37	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	SPARE 22BB	PUC01BB022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	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	B	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	B	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	B	PN-C-UC-1254001B	PUC01BB032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Óleo de Lubrificação	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	SPARE 33BB	PUC01BB033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	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	B	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	B	SPARE 41BB	PUC01BB041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	AQ-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	B	SPARE 43BB	PUC01BB043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	SPARE 44BB	PUC01BB044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	SRW01-UCPT1E47
Z-5140004	PN-UC-1254001B-01	B	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	B	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 Cabinet Location	Switchgear	Busbar	Equipment TAG	Short TAG	Equipment Description	Tradução em português	Customer Item N°	System Item N°	Page N°	Physical Equipment
PN-5140001	PN-TG-5147001A-02		GE-TG-5147001A	PNTG47001A	Main Turbogenerator A	Turbogenerador principal - A	P43	1001	4	
PN-5140001	PN-TG-5147001B-02		GE-TG-5147001B	PNTG47001B	Main Turbogenerator B	Turbogenerador principal - B	P43	1001	4	
PN-5140001	PN-TG-5147001C-02		GE-TG-5147001C	PNTG47001C	Main Turbogenerator C	Turbogenerador principal - C	P43	1001	4	
PN-5140001	PN-TG-5147001D-02		GE-TG-5147001D	PNTG47001D	Main Turbogenerator D	Turbogenerador 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	A	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	B	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	A	M-C-UC-1231001A (PMS)	P43001AK26	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	A	M-C-UC-1231001C (PMS)	P43001AK27	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	A	M-C-UC-1231002A (PMS)	P43001AK28	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	A	M-C-UC-1252001A (PMS)	P43001AK22	Injection Gas Compressor	Compressor de injeção de gás	P15	1005	11	M60
PN-5140001	PN-5143001	A	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	A	Z-PN-5143001A-1 (PMS)	P43001AK32	Spare (11000 kW)	Reserva (11000kW)	P15	1005	11	M60
PN-5140001	PN-5143001	B	M-B-1251002B (PMS)	P43001BK09	Main Injection Water Pump	Bomba principal de injeção de água	P16	1006	13	M60
PN-5140001	PN-5143001	B	M-B-5133002 (PMS)	P43001BK08	Well Service Pump	Bomba de serviço do poço	P16	1006	13	M60
PN-5140001	PN-5143001	B	M-B-UT-1251001-01B (PMS)	P43001BK07	Sulphate Removal Booster Pump	Bomba de remoção de sulfato	P16	1006	13	M60
PN-5140001	PN-5143001	B	M-C-UC-1231001B (PMS)	P43001BK06	Main Gas Compressor	Compressor principal de gás	P15	1005	11	M60
PN-5140001	PN-5143001	B	M-C-UC-1231002B (PMS)	P43001BK05	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	B	M-C-UC-1231002C (PMS)	P43001BK11	Exportation Gas Compressor	Compressor de exportação de gás	P15	1005	11	M60
PN-5140001	PN-5143001	B	M-C-UC-1252001B (PMS)	P43001BK10	Injection Gas Compressor	Compressor de injeção de gás	P15	1005	11	M60
PN-5140001	PN-5143001	A	M-B-1251002A (PMS)	P43001AK24	Main Injection Water Pump	Bomba principal de injeção de água	P16	1006	13	M60
PN-5140001	PN-5143001	A	M-B-UT-1251001-01A (PMS)	P43001AK25	Sulphate Removal Booster Pump	Bomba de remoção de sulfato	P16	1006	13	M60
PN-5140001	PN-5143002	A	M-B-5111001A (PMS)	P43002AK25	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	A	M-B-5111001C (PMS)	P43002AK24	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	A	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	A	Z-PN-5143002A-1 (PMS)	P43002AK01	Spare (1000 kW)	Reserva (1000kW)	P24	1106	22	M60
PN-5140001	PN-5143002	B	M-B-5111001B (PMS)	P43002BK09	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	B	M-B-5111001D (PMS)	P43002BK08	Sea Water Lift Pump	Bomba de Captação de água do mar	P24	1106	22	M60
PN-5140001	PN-5143002	B	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	B	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	B	Z-PN-5143002B-1 (PMS)	P43002BK17	Spare (1000 kW)	Reserva (1000kW)	P24	1106	22	M60
PN-5140001	PN-5143001	B	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



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

				Wired I/Os + 0% of spare				IO Modules + 30% of Spare				
Location	Cabinet	RIO	IO Station	WDI	WDO	WAI	WAO	DI	DO	AI	AO	Total
PMS	PN-5140001	03	ST3	57	24	12	0	20	8	4	0	32
			ST4	60	26	13	0	21	9	5	0	35
			ST5	31	13	8	1	13	5	3	2	23
			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
GATEWAY	Z-5140005	01	ST2	39	0	0	0	13	2	0	0	15
			ST3	36	0	0	0	12	2	0	0	14
	Z-5140004	02	ST3	50	0	0	0	17	0	0	0	17
			ST4	52	0	0	0	16	0	0	0	16
		Total RIO	Total IO Station	409	99	57	4	142	38	21	8	
				569				209				



Customer Item N°	System Item N°	Page Number	Item Description	Input / Output																												N° Total Data by Item	TOTAL					
				Wired				Profibus				Modbus RS485				Modbus TCP				IEC 61850				CSS				Wired Total	Profibus Total	Serial Total	Modbus Total		IEC Total	CSS Total				
				DI	DO	AI	AO	DI	DO	AI	AO	DI	DO	AI	AO	DI	DO	AI	AO	DI	DO	AI	AO	DI	DO	AI	AO											
P44	1	3	TGCP	0	0	0	0	0	0	0	0	9	0	5	0	0	0	0	0	0	0	0	0	0	3	0	4	0	14	0	0	14	0	7				
P43	1001	4	TGCP	28	12	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	49	0	0	0	0				
P38	2	5	13.8 kV Incomer from TG	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2	10	0	3	0	0	0	26	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	0	12	2	11	0	4	0	1	0	26	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	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	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	0				
P15	5	10	13.8kV Motor Gas Compressor	1	0	0	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	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	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	0	0	0	0	0	0	0	0	17	2	10	0	1	0	1	0	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	0	0	0	0	0	15	2	10	0	5	2	1	0	28	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	0	0	0	0	0	0	0	21	2	19	0	5	2	4	0	43	1	0	0	0	42	11				
P22	102	17	4.16kV MV Motor Pump type 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	2	19	0	3	0	1	0	43	1	0	0	0	42	4				
P18	103	18	4.16kV MCC Incomer Circuit Breaker	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	2	7	0	6	0	0	0	30	1	0	0	0	29	6				
P19	104	19	4.16kV MCC Tie Circuit Breaker	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	2	11	0	5	0	0	0	29	1	0	0	0	28	5				
P23	105	20	4.16kV Motor type EA04_M	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	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	0	0	0	0	0	0	0	17	3	19	0	5	3	1	0	40	1	0	0	0	39	9				
P24	1106	22	4.16kV Motor type EA01_M (1000kW)	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	7	0	0	0	0	1				
P25	107	23	4.16kV MCC CB Feeder to Hull	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	2	11	0	3	0	0	0	29	1	0	0	0	28	3				
P26	200	24	LV_CDC Incomer	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2	9	0	5	0	0	0	27	2	0	0	0	25	5				
P27	201	25	LV_CDC Tie	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	2	6	0	5	0	0	0	22	2	0	0	0	20	5				
P28	202	26	LV_CDC Motor Type EA01-M	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2	7	0	9	2	0	0	24	1	0	0	0	23	11				
P29	203	27	LV_CDC Motor Type EA02-M	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	7	0	13	2	0	0	21	1	0	0	0	20	15				
P35	204	28	LV_CDC Motor Subsea Type EA02-M	1	0	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				
P32	205	29	LV_CDC Motor Type EA04-M	1	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	13	0	7	0	5	0	0	0	21	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	0	0	0	0	0	0	0	11	0	7	0	4	0	0	0	19	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	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	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	0	6	2	7	0	0	0	0	0	8	0	0	0	17	2	0	0	0	15	8				
P45	211	35	LV VSD Pump Type 1	0	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	0	13	0				
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	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	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	0	5	2	1	0	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	0	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	9	0	9	0	0	0	6				
P4 & P8 & P11 & P12 & P14	303	40	LV MCC Motor type 3	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	6	0	6	0	0	0	2				
P5	304	41	LV MCC type EA03	0	0	0	0	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	7	0	7	0	0	0	2				
P13	305	42	LV Turbogenerator Hydraulic Start-up Pump Motor	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0	0	0	0				
P37	306	43	LV_UC Type EA04	0	0	0	0	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	8	0	8	0	0	0	2				
P46	307	44	LV VSD Pump Type 2	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	7	0	7	0	0	0	4				
P41	308	45	LV_MCC Incomer CB (F650 + P487)	0	0	0	0	10	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	13	0	13	0	0	0	1				
P9	309	46	LV Feeder type EA02-NM	0	0	0	0	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	9	0	9	0	0	0	5				
P50	310	47	LV_UC/EA04/CSS_15	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	4	0	0	0	1				
P49	400	48	LV Regeneration Gas Heater	4	0	0	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				
New Item	402	49	Fire and Gas system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0				
P53	403	50	LV Panel Status Type 1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5	5	0	0	0	0	3				
P54	404	51	LV Panel Status Type 2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	



Cabinet	Input / Output																								
	W					P					Modbus RS485					Modbus TCP					IEC 61850				
	DI	DO	AI	AO	Total	DI	DO	AI	AO	Total	DI	DO	AI	AO	Total	DI	DO	AI	AO	Total	DI	DO	AI	AO	Total
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
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
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
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
TOTAL	405	99	57	4		1368	265	263	0		36	0	20	0		22	6	28	0		1737	179	1102	0	
	565					1896					56					56					3018				
	10,1%					33,9%					1,0%					1,0%					54,0%				

Cabinet	Qty of EQUIPMENT by type of communication				
	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 LV PRODUCTION MCC 480V	PN-5143004	TF-5143003A	P43004A058	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Topside	P5	304	41	1	2	4
	PN-5143004	TF-5143005	P43004A059	Topside Heat Tracing Transformer 480- 220V	Transformador 480V-220V - Traço Elétrico Topside	P5	304	41	1	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	1
	PN-5143004	M-B-5115001A	P43004A068	Dilution Water Pump	Bomba de água de diluição	P1	301	38	1	5	1
	PN-5143004	M-B-5125002A	P43004A055	Utility Hot Water Circulation Pump	Bomba Recirculação de Água Quente Utilitária	P2	301	38	1	6	1
	PN-5143004	M-B-UQ-1261001-01A	P43004A031	Defoamer Pump	Bomba anti-espumante	P3	302	39	1	7	2
	PN-5143004	M-B-UQ-1261001-02A	P43004A032	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	1	8	2
	PN-5143004	M-B-UQ-1261001-03A	P43004A033	Scale Inhibitor (Topside) Pump	Bomba de produto químico (Topside)	P3	302	39	1	9	2
	PN-5143004	M-B-UQ-1261001-04A	P43004A034	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	1	10	2
	PN-5143004	M-B-UQ-1261001-05A	P43004A035	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	1	11	2
	PN-5143004	M-B-UQ-1261001-06A	P43004A036	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	1	12	2
	PN-5143004	M-B-UQ-1261001-08A	P43004A037	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	1	13	2
	PN-5143004	M-B-UQ-1261001-09A	P43004A511	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalteno	P3	302	39	1	14	2
	PN-5143004	M-B-UQ-1261001-10A	P43004A041	Gas Corrosion Inhibitor Pump	Bomba Inibição - Gás Corrosivo	P3	302	39	1	15	2
	PN-5143004	M-B-UQ-1262001-01A	P43004A042	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	1	16	2
	PN-5143004	M-B-UQ-1262001-02A	P43004A043	Emulsion Inhibitor Dilution Water Pump	Bomba de diluição - Inibidor de emulsão	P3	302	39	1	17	2
	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	2
	PN-5143004	M-B-UQ-1263001-01A	P43004A045	Oxygen Scavenger Pump	Bomba Sequestrante de Oxigênio	P3	302	39	1	19	2
	PN-5143004	M-B-UQ-1263001-02A	P43004A046	Biodispersant Pump	Bomba - Biodispersor	P3	302	39	1	20	2
	PN-5143004	M-B-UQ-1263001-03A	P43004A047	Injection Water Biocide Pump	Bomba de Injeção de água Biocida	P3	302	39	1	21	2
	PN-5143004	M-B-UQ-UT-1251001-01A	P43004A056	Biocide Dosing Pump Motor	Bomba de dosagem - Biocida	P4	303	40	1	22	1
	PN-5143004	M-EXT-5255004	P43004A057	Laboratory - Hood 1 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 1 - Laboratório	P2	301	38	1	23	1
	PN-5143004	M-EXT-5255005	P43004A067	Laboratory - Hood 3 - Exhaust Fan	Ventilador de Exaustão - Chapéu chaminé 3 - Laboratório	P2	301	38	1	24	1
	PN-5143004	M-VT-5254002A	P43004A061	Laboratory - Hood 5 - Supply Fan	Ventilador da Fonte - Chapéu chaminé 5 - Laboratório	P2	301	38	1	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	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	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	1
	PN-5143004	M-B-UQ-UT-1251001-02A	P43004A065	SBS Dosing Pump Motor	Motor bomba dosadora de produto químico	P4	303	40	1	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	1
	PN-5143004	Z-PN-5143004-1	P43004A069	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	1	31	2
	PN-5143004	Z-PN-5143004-2	P43004A038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	1	32	2
	PN-5143004	Z-PN-5143004-3	P43004A049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	1	33	2
	PN-5143004	Z-PN-5143004-4	P43004A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	34	2
	PN-5143004	Z-PN-5143004-5	P43004A051	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	35	2
	PN-5143004	Z-PN-5143004-6	P43004A510	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	1	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 LV PRODUCTION MCC 480V	PN-5143005	TF-5143004A	P43005B061	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Tapside	P5	304	41	2	2	2	4
	PN-5143005	Z-5241001	P43005B064	Nitrogen Generator Unit	Unidade Geração de Nitrogênio	P8	303	40	2	3	3	1
	PN-5143005	CX-TO-1223001	P43005B059	Pre-Oil Dehydrator Junction Box	Caixa de Junção - Desidratador pré-óleo	P6	301	38	2	4	4	1
	PN-5143005	PN-AC-5252003A	P43005B062	Laboratory and Office Air Conditioner Unit	Ar condicionado - 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 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 Classificada - 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 Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	2	9	9	1
	PN-5143005	M-B-UB-1251002A	P43005B046	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lubrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	2	10	10	1
	PN-5143005	M-B-UQ-1261001-04C	P43005B031	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	2	11	11	2
	PN-5143005	M-B-UQ-1261001-08C	P43005B032	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	2	12	12	2
	PN-5143005	M-B-UQ-1261001-10B	P43005B033	Gas Corrosion Inhibitor Pump	Bomba Inibição - Gás Corrosivo	P3	302	39	2	13	13	2
	PN-5143005	M-B-UQ-1262001-04A	P43005B034	Produced Water Biocide Pump	Bomba de produção - Água Biocida	P3	302	39	2	14	14	2
	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-5143005	M-VT-5254001A	P43005B047	Topside Normal Transformer/HVAC Rooms Supply Fan	Salas de Transformadores e HVAC - Ventilador de Alimentação	P7	301	38	2	16	16	1
	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
	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
	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
	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
	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 da Fonte - Central de armazenamento de CO2 Tapside	P2	301	38	2	22	22	1
	PN-5143005	M-B-FL-UT-5331001A	P43005B063	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	2	23	23	1
	PN-5143005	Z-PN-5143005-1	P43005B410	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	2	24	24	2
	PN-5143005	Z-PN-5143005-2	P43005B049	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	2	25	25	2
	PN-5143005	Z-PN-5143005-3	P43005B065	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	2	26	26	2
	PN-5143005	Z-PN-5143005-4	P43005B037	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	2	27	27	2
	PN-5143005	Z-PN-5143005-5	P43005B038	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	2	28	28	2
	PN-5143005	Z-PN-5143005-6	P43005B048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	2	29	29	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-5143007 LV PRODUCTION MCC 480V	PN-5143007	AQ-T-UC-1225001	P43007B051	Vapor Recovery Unit (VRU) Compressor Lube Oil Heater - Tank	Tanque - Unidade de Recuperação de vapor (VRU) - Compressor aquec	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 Homogeneização	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 químico	P4	303	40	3	14	14	1
	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
	PN-5143007	M-B-UQ-1261001-04D	P43007B033	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	3	17	17	2
	PN-5143007	M-B-UQ-1261001-05B	P43007B034	Wax Inhibitor Pump	Bomba de Inibição - Parafina	P3	302	39	3	18	18	2
	PN-5143007	M-B-UQ-1261001-06B	P43007B035	Hydrate Inhibitor (Topside) Pump	Bomba de Inibição - Hidrato (Topside)	P3	302	39	3	19	19	2
	PN-5143007	M-B-UQ-1261001-08B	P43007B036	H2S Scavenger (Subsea) Pump	Bomba Sequestrante de H2S	P3	302	39	3	20	20	2
	PN-5143007	M-B-UQ-1261001-09B	P43007B037	Asphaltene Inhibitor Pump	Bomba de Inibição - Asfalteno	P3	302	39	3	21	21	2
	PN-5143007	M-B-UQ-1262001-01B	P43007B038	Inverted Emulsion Inhibitor Pump	Bomba inibição - Emulsão invertida	P3	302	39	3	22	22	2
	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
	PN-5143007	M-B-UQ-1262001-03B	P43007B042	Produced Water Scale Inhibitor Pump	Bomba de produto químico do sistema de água 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



	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-5143016 LV PRODUCTION MCC 480V	PN-5143016	AQ-VV-UC-1231001A-A	P43016A033	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de óleo 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 óleo 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 óleo 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 óleo 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 óleo de lubrificação - Compressor de gás de exportação	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 óleo de trabalho - Compressor de gás de exportação	P4	303	40	3	43	43	1
	PN-5143016	AQ-VV-UC-1252001A-A	P43016A039	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo 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 óleo 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
	PN-5143016	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-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 Injeção de 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



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-5143008 LV PRODUCTION MCC 480V	PN-5143008	TF-5143004B	P43008A053	Topsides Normal Transformer 480-220V	Transformador 480V-220V - Tapside	P5	304	41	4	2	4
	PN-5143008	CX-TO-1223002	P43008A064	Oil Dehydrator Junction Box	Caixa Junção - Desidratador de óleo	P6	301	38	4	3	1
	PN-5143008	M-FT-UT-1251001-02B	P43008A042	Injection Water Coarse Filter	Injeção de Água - Filtro granulação	P4	303	40	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	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	1
	PN-5143008	M-B-5115003B	P43008A045	Hot Water Make-up Pump	Bomba de entrada - Água quente	P7	301	38	4	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	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	1
	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	1
	PN-5143008	M-UH-5139001-02B	P43008A056	HPU Motor	Motor HPU	P10	301	38	4	11	1
	PN-5143008	M-B-UB-1251002B	P43008A051	Lube Oil Pump for Main Injection Water Pump Motor	Bomba de Lubrificação - Motor da Bomba Principal de Injeção de Água	P4	303	40	4	12	1
	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	1
	PN-5143008	M-B-UQ-1261001-02B	P43008A031	Demulsifier Pump	Bomba de desemulsificação	P3	302	39	4	14	2
	PN-5143008	M-B-UQ-1261001-03B	P43008A032	Scale Inhibitor (Topside) Pump	Bomba de produto químico (Topside)	P3	302	39	4	15	2
	PN-5143008	M-B-UQ-1261001-04B	P43008A033	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	4	16	2
	PN-5143008	M-B-UQ-1261001-04E	P43008A034	Scale Inhibitor (Subsea) Pump	Bomba de produto químico (Subsea)	P3	302	39	4	17	2
	PN-5143008	M-B-UQ-1261001-08D	P43008A035	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	4	18	2
	PN-5143008	M-B-UQ-1261001-08E	P43008A036	H2S Scavenger (Subsea) Pump	Bomba Secrestante de H2S	P3	302	39	4	19	2
	PN-5143008	M-B-UQ-1262001-04B	P43008A037	Produced Water Biocide Pump	Bomba de produção - Água Bioestática	P3	302	39	4	20	2
	PN-5143008	M-B-UQ-1262001-05B	P43008A038	Produced Water Biostatic Pump	Bomba de produção - Água Bioestática	P3	302	39	4	21	2
	PN-5143008	M-B-FL-UT-5331001B	P43008A055	Flotation Pump Motor	Motor Bomba de Flotação	P7	301	38	4	22	1
	PN-5143008	Z-PN-5143008-1	P43008A063	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P3	302	39	4	23	2
	PN-5143008	Z-PN-5143008-2	P43008A411	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	4	24	2
	PN-5143008	Z-PN-5143008-3	P43008A061	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P3	302	39	4	25	2
	PN-5143008	Z-PN-5143008-4	P43008A048	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	26	2
	PN-5143008	Z-PN-5143008-5	P43008A049	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	27	2
	PN-5143008	Z-PN-5143008-6	P43008A410	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P3	302	39	4	28	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-5143017 COMPRESSORS LV AUXILIARY MCC 480V	PN-5143017	AQ-VV-UC-1231001B-A	P43017B032	Lube Oil Chamber Heater for Main Gas Compressor	Aquecedor reservatório de óleo 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 óleo 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 óleo de lubrificação - Compressor de gás de	P4	303	40	4	31	31	1
	PN-5143017	AQ-VV-UC-1231002B-B	P43017B035	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de gás de ex	P4	303	40	4	32	32	1
	PN-5143017	AQ-VV-UC-1231002C-A	P43017B036	Lube Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de lubrificação - Compressor de gás de	P4	303	40	4	33	33	1
	PN-5143017	AQ-VV-UC-1231002C-B	P43017B037	Working Oil Chamber Heater for Exportation Gas Compressor	Aquecedor reservatório de óleo de trabalho - Compressor de gás de ex	P4	303	40	4	34	34	1
	PN-5143017	AQ-VV-UC-1252001B-A	P43017B041	Lube Oil Chamber Heater for Injection Gas Compressor	Aquecedor reservatório de óleo 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 óleo de trabalho - Compressor de injeção d	P4	303	40	4	36	36	1
	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
	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
	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 c	P4	303	40	4	39	39	1
	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 g	P4	303	40	4	40	40	1
	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-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
	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
	PN-5143017	PN-UC-1252001B-01	P43017B039	Heater Panel of Seal for Injection Gas Compressor	Painel do Aquecedor de Selante - Compressor de Injeção de Gás	P11	303	40	4	44	44	1
	PN-5143017	Z-PN-5143017-1	P43017B053	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P4	303	40	4	45	45	1
	PN-5143017	Z-PN-5143017-2	P43017B054	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	4	46	46	1
	PN-5143017	Z-PN-5143017-3	P43017B038	Spare (Motor Load - 30kW)	Reserva (Carga Motor - 30kW)	P4	303	40	4	47	47	1
	PN-5143017	Z-PN-5143017-4	P43017B043	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P4	303	40	4	48	48	1
	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-UC-1254001A -01 TURBINE DRIVEN COMPRESSOR 480V	PN-TG-5147001-01-01	95QGT - GEN A	PTG111A031	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	5	2	2	1
	PN-TG-5147001-01-01	95QGT - GEN C	PTG111A032	Gas Generator Lube Oil Reservoir Heater	Aquecedor reservatório óleo lubrificação - Gerador de gás	P14	303	40	5	3	3	1
	PN-TG-5147001-01-01	95QMT1 - GEN A	PTG111A033	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	5	4	4	1
	PN-TG-5147001-01-01	95QMT2 - GEN A	PTG111A034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	5	5	5	1
	PN-TG-5147001-01-01	95QMT1 - GEN C	PTG111A035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	5	6	6	1
	PN-TG-5147001-01-01	95QMT2 - GEN C	PTG111A036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	5	7	7	1
	PN-TG-5147001-01-01	88FL1 - 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	88FL1 - GEN C	PTG111A054	Liquid Fuel Pump for Main Turbogenerator	Bomba de combustível do turbogerador principal	P12	303	40	5	9	9	1
	PN-TG-5147001-01-01	88QM - GEN A	PTG111A052	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	5	10	10	1
	PN-TG-5147001-01-01	88QM - GEN C	PTG111A411	Mineral Lube Oil Auxiliary Pump Motor	Óleo Lubrificante Mineral - Motor da Bomba Auxiliar	P12	303	40	5	11	11	1
	PN-TG-5147001-01-01	88QMD - 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
	PN-TG-5147001-01-01	88QMD - 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
	PN-TG-5147001-01-01	88QG1 - GEN A	PTG111A063	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	5	14	14	1
	PN-TG-5147001-01-01	88QG2 - GEN A	PTG111A041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	5	15	15	1
	PN-TG-5147001-01-01	88QG1 - GEN C	PTG111A042	GG Lube Oil Pump Motor 1	Bomba hidráulica GG - Motor 1	P12	303	40	5	16	16	1
	PN-TG-5147001-01-01	88QG2 - GEN C	PTG111A043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	5	17	17	1
	PN-TG-5147001-01-01	88EV1 - 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
	PN-TG-5147001-01-01	88EV1 - 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	88SR - GEN A	PTG111A039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	5	20	20	5
	PN-TG-5147001-01-01	88SR - GEN C	PTG111A051	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	5	21	21	5
	PN-TG-5147001-01-01	M-B-5147001A	PTG111A046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	5	22	22	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
	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



PN-UC-1254001A-01 TURBINE DRIVEN COMPRESSOR 480V	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
	PN-UC-1254001A-01	SPARE 22AB	PUC01AA022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	5	31	31	20
	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
	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
	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
	PN-UC-1254001A-01	PN-C-UC-1254001A	PUC01AA032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Óleo de Lubrificação	P37	306	43	5	35	35	20
	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
	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
	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
	PN-UC-1254001A-01	SPARE 43AB	PUC01AA043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	5	41	32	20
	PN-UC-1254001A-01	SPARE 44AB	PUC01AA044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	5	42	40	20
	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
	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 TURBOGENERATION LOW-VOLTAGE MCC 480V2	PN-TG-5147001-01-02	INC. 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 lubrificação - 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 lubrificação - 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 lubrificação	P14	303	40	6	5	5	1
	PN-TG-5147001-01-02	95QMT2 - GEN B	PTG112B034	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	6	6	6	1
	PN-TG-5147001-01-02	95QMT1 - GEN D	PTG112B035	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	6	7	7	1
	PN-TG-5147001-01-02	95QMT2 - GEN D	PTG112B036	Main Lube Oil Reservoir Heater	Aquecedor reservatório principal de óleo de lubrificação	P14	303	40	6	8	8	1
	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
	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
	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
	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
	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
	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
	PN-TG-5147001-01-02	88QG2 - GEN B	PTG112B041	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	6	16	16	1
	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
	PN-TG-5147001-01-02	88QG2 - GEN D	PTG112B043	GG Lube Oil Pump Motor 2	Bomba hidráulica GG - Motor 2	P12	303	40	6	18	18	1
	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
	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-TG-5147001-01-02	88SR - GEN B	PTG112B039	Turbogenerator Hydraulic Start-up Pump Motor	Turbogerador - Motor Bomba Hidráulica de Partida	P13	305	42	6	21	21	5
	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
	PN-TG-5147001-01-02	M-B-5147001B	PTG112B046	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	6	23	23	1
	PN-TG-5147001-01-02	M-B-5147001D	PTG112B047	Generator Diesel Booster Pump Motor	Motor da bomba do gerador diesel	P7	301	38	6	24	24	1
	PN-TG-5147001-01-02	Z-PN-TG-5147001-01-02-1	PTG112B061	Spare (Motor Load - 55kW)	Reserva (Carga Motor - 55kW)	P12	303	40	6	25	25	1
	PN-TG-5147001-01-02	Z-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	Z-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	Z-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	Z-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	Z-PN-TG-5147001-01-02-6	PTG112B062	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P12	303	40	6	30	30	1



PN-UC-1254001B-01 TURBINE DRIVEN COMPRESSOR 480V	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-1254001B-01	PN-UC-1254001B-01PNST	#N/A	Panel status	#N/A	#N/A	#N/A	#N/A	6	31	31	22
	PN-UC-1254001B-01	SPARE 22BB	PUC01BB022	Spare (Motor Load - 11kW)	Reserva (Carga Motor - 11kW)	P37	306	43	6	32	36	20
	PN-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
	PN-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
	PN-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-UC-1254001B-01	PN-C-UC-1254001B	PUC01BB032	Mineral Oil Reservoir Heater - Lube Oil	Aquecedor reservatório gás mineral - Óleo de Lubrificação	P37	306	43	6	36	36	20
	PN-UC-1254001B-01	SPARE 33BB	PUC01BB033	Spare (motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	6	37	41	20
	PN-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
	PN-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
	PN-UC-1254001B-01	SPARE 41BB	PUC01BB041	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	6	40	44	20
	PN-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
	PN-UC-1254001B-01	SPARE 43BB	PUC01BB043	Spare (Motor load - 11kw)	Reserva (Carga Motor - 11kW)	P37	306	43	6	42	37	20
	PN-UC-1254001B-01	SPARE 44BB	PUC01BB044	Spare (Motor load - 30kw)	Reserva (Carga Motor - 30kW)	P37	306	43	6	43	42	20
	PN-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-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
A	05/26/2014	Y.BENDOUDOUCH	Updated after customer comments & Interfaces clarifications
B	06/03/2014	Y.BENDOUDOUCH	Updated after Interconnecting Clarifications
C	08/26/2014	Y.BENDOUDOUCH	Updated after customer comments & clarifications
D	12/24/2014	Y.BENDOUDOUCH	Updated after customer comments & clarifications
E	02/27/2015	Y.BENDOUDOUCH	Updated after Factory Acceptance Tests (FAT)