
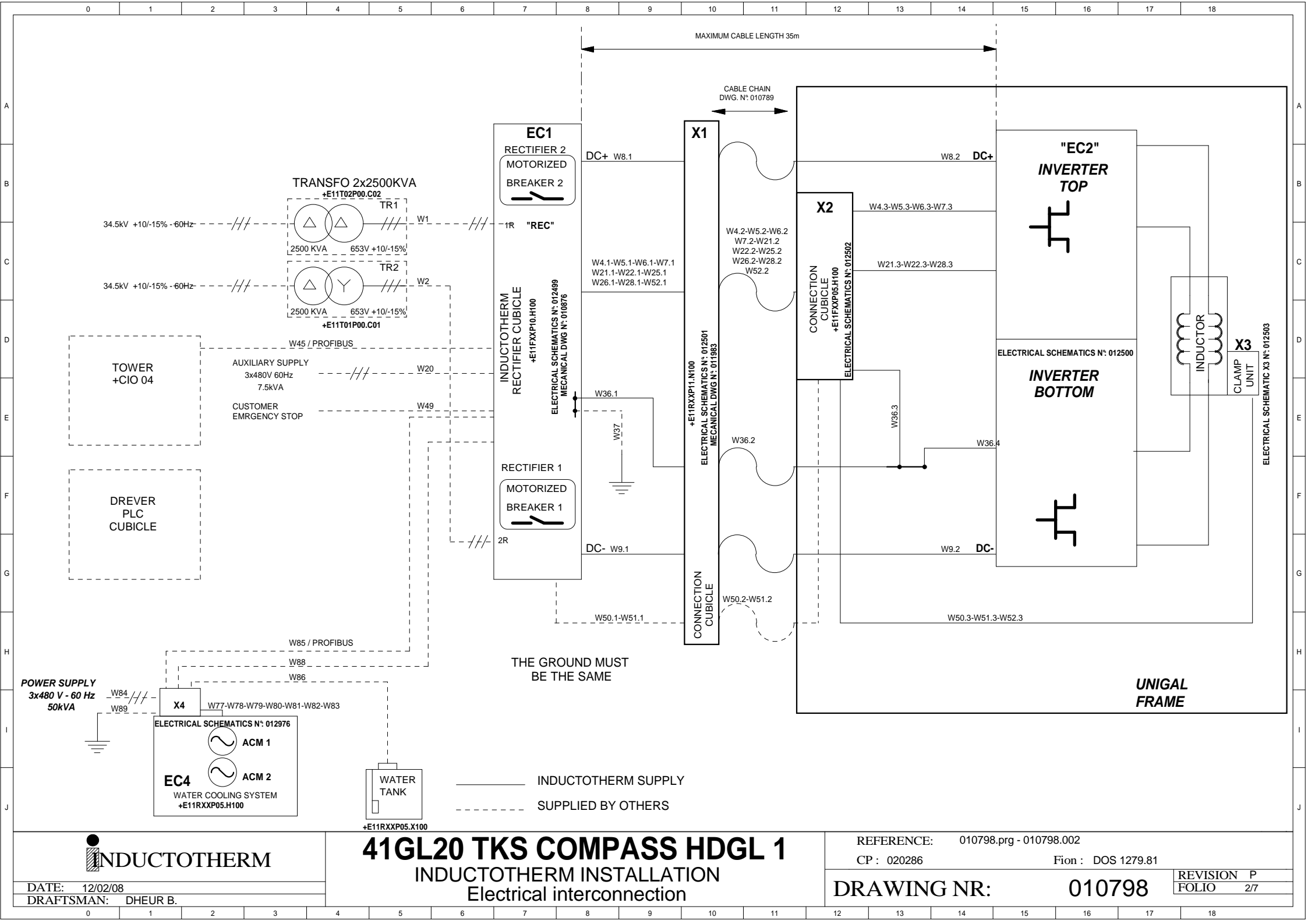




	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
A	DRAWING NUMBER		SHEET NUMBER			DESIGNATION															
			SHEET	REFERENCE									REVISION	SHEET		DATE		NAME			
	010798		1 to 7		GENERAL INFORMATION																
B																					
C																					
D																					
	4EL703483				USER MANUEL																
E	ABBREVIATIONS LIST																				
	NAME	TYPE		X	FONCTION			DESIGNATION													
F	W	WATER UNIT			WATER CONTROL UNIT																
	REC	RECTIFIER UNIT			DC RECTIFIER UNIT																
	INV	HF-CUBICLE			INVERTER UNIT								P	1,2 Auxiliary power 6kVA->7.5kVA		03/03/2010		DHB			
	T				TRANSFORMER								O	1,2,5,6 ADD W49, W25, W52.3		03/12/09		DMX			
G	CP UN	CLAMP UNIT			INDUCTOR CLAMP UNIT MASTER COIL								N	1-2 ADD W89		10/11/09		ARF			
													M	1, 2, 6 CABLE MODIFICATIONS AND SINGLE LINE UPDATE		08/10/09		DNN			
													L	1-6 CABLE MODIFICATIONS AND SINGLE LINE UPDATE		24/09/09		DNN			
H													H	1-7		29/06/09		JCS			
													G	1,2		10/03/09		DHB			
													F	1,2,6		02/02/09		DMX			
I													E	1-7		22/10/08		DHB			
													D	1-9		21/08/08		ARETINO			
													C	1,2,6		20/03/08		ARETINO			
													B	1,2,6		14/03/08		DHB			
J													REVISION	SHEET		DATE		NAME			
 INDUCTOTHERM					41GL20 TKS COMPASS HDGL 1 HIGH FREQUENCY INDUCTION HEATER GENERAL INFORMATIONS							REFERENCE: 010798.prg - 010798.001									
DATE: 12/02/08												CP : 020286 Fion : DOS 1279									
DRAFTSMAN: DHEUR B.												DRAWING NR: 010798				REVISION P FOLIO 1/7					
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<div><div><div></div><div></div></div><div>INDUCTOTHERM</div></div> <div>DATE: 12/02/08</div> <div>DRAFTSMAN: DHEUR B.</div>					<div>41GL20 TKS COMPASS HDGL 1</div> <div>SPARE EDGES HEATER</div>							REFERENCE: 010798.prg - 010798.003														
												CP : 020286											Fion : DOS 1279.81			
												DRAWING NR:								010798					REVISION L	
																									FOLIO 3/7	
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		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
CABLE NUMBER	FROM	TO	CABLE DEFINITION			QUANTITY CABLE	CABLE TYPE		A : OTHER B : INDUCTOTHERM	PRECABLE	AWG	480v 60Hz	220v 60Hz	110v 60Hz	24v DC	ANALOG.	OBSERVATIONS							
			CORES QUANTITY AVAILABLE	UTILIZE	CORES SECTION MM2																			
A	W21.1	EC1	X1	7	5	0.75	1	SCREENED	LIYCY	B		18					INVERTER MANUAL CONTROL PANEL							
	W21.2	X1	X2	7	5	0.75	1	SCREENED	LIYCY	B		18					INVERTER MANUAL CONTROL PANEL							
B	W21.3	X2	EC2	7	5	0.75	1	SCREENED	LIYCY	B		18					INVERTER MANUAL CONTROL PANEL							
	W22.1	EC1	X1	10	8	0.5	1	SCREENED	LIYCY	B		20					INVERTER MANUAL CONTROL PANEL							
	W22.2	X1	X2	10	8	0.5	1	SCREENED	LIYCY	B		20					INVERTER MANUAL CONTROL PANEL							
C	W22.3	X2	EC2	10	8	0.5	1	SCREENED	LIYCY	B		20					INVERTER MANUAL CONTROL PANEL							
	W23																							
	W24																							
D	W25.1	EC1	X1	3G	2	1.5	1		LIYY	B		15					EMERGENCY STOP							
	W25.2	X1	X2	3G	2	1.5	1		LIYY	B		15					EMERGENCY STOP							
	W26.1	EC1	X1	3G	2	1.5	1		LIYY	B		15					INFO EMERGENCY STOP CUSTOMER							
E	W26.2	X1	X2	3G	2	1.5	1		LIYY	B		15					INFO EMERGENCY STOP CUSTOMER							
	W28.1	EC1	X1	3G	2	1.5	1		NY Y	B		15					120V 60 Hz FOR CUSTOMER							
	W28.2	X1	X2	3G	2	1.5	1		NY Y	B		15					120V 60 Hz FOR CUSTOMER							
F	W28.3	X2	EC2	3G	2	1.5	1		NY Y	B		15					120V 60 Hz FOR CUSTOMER							
	W36.1	EC1	X1	1	1	95	1		VOBST95YG	B		000					RECTIFIER CUBICLE TO TROLLEY GROUND							
G	W36.2	X1	BUSBAR	1	1	95	1		VOBST95YG	B		000					INVERTER SLAVE CUBICLE GROUND							
	W36.3	BUSBAR	X2	1	1	6	1		VOBST6YG	B		9					TERMINAL BOX X2 GROUND							
	W36.4	BUSBAR	EC2	1	1	95	1		VOBST95YG	B		000					INVERTER SLAVE CUBICLE GROUND							
H	W36.5																							
	W37	EC1	GND	1	1	95	1		VOBST95YG	B		000					RECTIFIER CUBICLE GROUND							
I	W38																							
	W39																							
	W40																							
J	W41																							
	W42																							
	W43																							
	W44																							
<div>INDUCTOTHERM</div> <div>DATE: 12/02/08</div> <div>DRAFTSMAN: DHEUR B.</div>					41GL20 TKS COMPASS HDGL 1 CABLE LIST										REFERENCE: 010798.prg - 010798.005									
															CP : 020286					Fion : DOS 1279.81				
															DRAWING NR: 010798					REVISION O FOLIO 5/7				

CABLE LIST																							
CABLE DEFINITION																							
CABLE NUMBER	FROM	TO	CORES QUANTITY			QUANTITY CABLE 1	CABLE TYPE		A : CUSTOMER B : INDUCTOTHERM		PRECABLE	AWG	480v 60Hz	220v 60Hz	110v 60Hz	24v DC	ANALOG.	OBSERVATIONS					
			AVAILABLE	UTILIZE	SECTION MM2																		
A	W45	TOWER +CIO 04	EC1	2	2	0.64	1	LIAISON PROFIBUS 6XV1830-0EH10		A								INVERTER INSTALLATION INFORMATION					
	W49	CUSTOMER	EC1	3G	2	1.5	1	LIYY		A		15						CUSTOMER EMERGENCY STOP					
B	W50.1	EC1	X1	7	5	0.75	1	SCREENED	LIYCY	A		18						CLAMP OPEN-CLOSE MOVEMENT CONTROL					
	W50.2	X1	X2	7	5	0.75	1	SCREENED	LIYCY	A		18						CLAMP OPEN-CLOSE MOVEMENT CONTROL					
	W50.3	X2	X3	7	5	0.75	1	SCREENED	LIYCY	B		18						CLAMP OPEN-CLOSE MOVEMENT CONTROL					
C	W51.1	EC1	X1	10	6	0.5	1	SCREENED	LIYCY	A		20						CLAMP OPEN-CLOSE MOVEMENT LIMIT SWITCH + MANUAL CONTROL					
	W51.2	X1	X2	10	6	0.5	1	SCREENED	LIYCY	A		20						CLAMP OPEN-CLOSE MOVEMENT LIMIT SWITCH + MANUAL CONTROL					
	W51.3	X2	X3	10	6	0.5	1	SCREENED	LIYCY	B		20						CLAMP OPEN-CLOSE MOVEMENT LIMIT SWITCH + MANUAL CONTROL					
D	W52.1	EC1	X1	4	4	1.5	1	LIYY		B		15						AUTO-MANU/OPEN/CLOSE					
	W52.2	X1	X2	4	4	1.5	1	LIYY		B		15						AUTO-MANU/OPEN/CLOSE					
	W52.3	X2	X3	4	4	1.5	1	LIYY		B		15						AUTO-MANU/OPEN/CLOSE					
E																							
	W54.1																						
	W54.2																						
F	W55.1																						
	W55.1																						
G	W77	X4	ACM 1	3+1	3+1	16	1	NYY		A		5						POWER SUPPLY PUMP 1					
	W78	X4	ACM 2	3+1	3+1	16	1	NYY		A		5						POWER SUPPLY PUMP 2					
	W79	X4	TIS1	2+1	2+1	1.5	1	SCREENED	LIYCY	A		15						WATER TEMPERATURE					
	W80	X4	PS1	2+1	2+1	1.5	1	SCREENED	LIYCY	A		15						WATER PRESSURE					
H	W81	X4	FIS1	2+1	2+1	1.5	1	SCREENED	LIYCY	A		15						WATER FLOW RECTIFIER					
	W82	X4	FIS2	2+1	2+1	1.5	1	SCREENED	LIYCY	A		15						WATER FLOW INVERTER					
	W83	X4	FIS3	2+1	2+1	1.5	1	SCREENED	LIYCY	A		15						WATER FLOW INDUCTOR					
I	W84	CUSTOMER	X4	3+1	3+1	16	1	NYY		A		5						WATER UNIT POWER SUPPLY					
	W85	EC1	X4	2	2	0.64	1	LIAISON PROFIBUS 6XV1830-0EH10		A								WATER FLOW INFORMATION					
	W86	TANK	X4	4	4	1.5	1	SCREENED	LIYCY	A		15						WATER TANK LEVEL					
J	W87																						
	W88	EC1	X4	2	2	1.5	1	SCREENED	LIYCY	A		15						WATER FLOW FAULT					
	W89	X4	GND	1	1	35	1	VOBST35YG		B		1						WATER COOLING SYSTEM GROUND					
					41GL20 TKS COMPASS HDGL 1							REFERENCE: 010798.prg - 010798.006											
												CP : 020286						Fion : DOS 1279.81					
												DRAWING NR: 010798						REVISION O		FOLIO 6/7			
DATE: 12/02/08					CABLE LIST																		
DRAFTSMAN: DHEUR B.																							

NOTES :

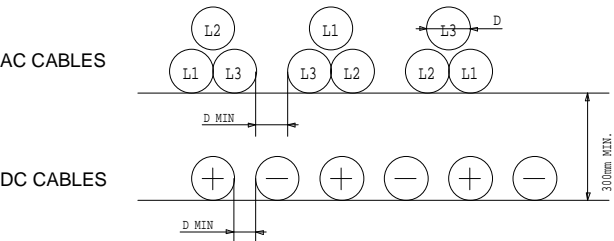
- 1/ ALL CABLES TO BE 600/1000V GRADE PVC INSULATED UNLESS OTHERWISE STATED.
- 2/ CABLES TO BE MECHANICALLY PROTECTED E.G. CONDUIT TRUCKING, STEEL WIRE ARMOUR. (IF REQUIRED BY LOCAL REGULATIONS)
- 3/ ALL METAL WORK TO BE SECURELY CONNECTED TO EARTH, EARTH CONDUCTORS SIZED IN ACCORDANCE WITH REGULATIONS.
- 4/ MAXIMUM CABLE LENGH FOR STANDARD STATITRON DESIGN ; 20 M FOR AC POWER SUPPLY ; 50 M FOR DC CONNECTION BETWEEN RECTIFIER AND INVERTER
- 5/ ALL CABLES AND WIRES TO BE SUPPLIED BY CUSTOMER EXCEPT WHERE MARKED.
- 6/ NO SCREENED PAIRS OR DC CARRYING CABLES TO BE RUN PARALLEL WITHIN 450mm OF 3PHASE AC POWER SUPPLY CONDUCTORS, OR WITHIN 900mm OF HEAVY CURRENT CARRYING CONDUCTORS (BUS...).
- ALL POWER AC CABLES, POWER DC CABLES AND AUXILIARY CABLES TO BE RUN ON SEPARATE CABLE TRAYS.
- 7/ ALL THERMOCOUPLE COMPENSATING CABLES, NOTED T/C, TO BE RUN IN STEEL CONDUIT SEPARATE FROM OTHER CABLES.
- 8/ POWER CABLE SECTION ARE GIVEN FOR INFORMATION WITH:

- STANDARDS NBN458 AND NBNC33-111.
- MAXIMUM AMBIANT TEMPERATURE : 35 C.
- CABLE SUPPORT SYSTEM :
- CT

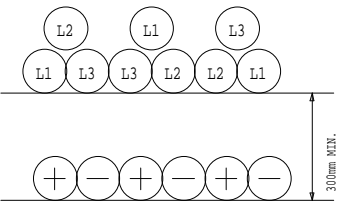
OPENED CABLE TRAYS
- CC

CLOSED CONDUIT

- POWER CABLE PROXIMITY : NO JOINED NJ



JOINED J



- FOR INFORMATION :
- IF THE TEMPERATURE IS HIGHER THAN THE MAXIMUM AMBIANT TEMPERATURE, CABLE QUANTITY HAS TO BE INCREASED BY 6% PER 5 DEGREES C.
- FOR CABLING LAYING WITH CLOSED CONDUIT,CABLE QUANTITY HAS TO BE INCREASED BY 10%

CC
- FOR JOINED CABLING LAYING, CABLE QUANTITY HAS TO BE INCREASED BY 15%.

J

WARNING!! - THE SIZES OF POWER SUPPLY CABLES HAVE TO BE RECALCULATED BY THE CUSTOMER ACCORDING TO THE ACTUAL TEMPERATURES, CABLE LAYING AND LOCAL SPECIFICATIONS.

BE CAREFUL : with a transformer external to the rectifier.

BEFORE ANY OPENING OF THE HIGH VOLTAGE CIRCUIT BREAKER (PRIMARY TRANSFORMER). IT IS NECESSARY TO OPEN (1 SECOND) THE LOW VOLTAGE CIRCUIT BREAKER (SECONDARY TRANSFORMER) BY OPENING THE EMERGENCY STOP CONTACT FROM THE TERMINAL "X30".



DATE: 12/02/08
DRAFTSMAN: DHEUR B.

41GL20 TKS COMPASS HDGL 1
CABLE NOTE

REFERENCE: 010798.prg - 010798.007
CP : 020286 Fion : DOS 1279.81

DRAWING NR: 010798

REVISION H
FOLIO 7/7