

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
		POWER TERMINAL				NO AND NC CONTACTS FROM -K RELAY				3 PHASES SQUIRREL CAGE MOTOR				TEMPERATURE SENSOR PANNEL			
		MAIN SWITCH AND ISOLATOR				POWER CONTACTS FROM KM 2, 3 or 4 poles				SLIP RING WOUND MOTOR				REED RELAY ELECTROLYTE LEVEL DETECTOR			
		AUXILIARY CONTACTS FROM QG				3 PHASES CIRCUIT BREAKER				RELAY COIL 24VDC						INDUCTIVE PROXIMITY SWITCH	
		2PH CIRCUIT BREAKER				CONTACTOR COIL 230V or 400V				TANK WITH ELECTROLYTE RESISTOR				TEMPERATURE SENSOR			
										ANTI- CONDENSATION HEATER				LIGHT LED 24VDC			

WIRE TYPE SECTION COLOUR	POWER 400V50Hz 2.5mm ²	COMMAND 24VDC 0.75mm ²	COMMAND 230V50Hz 1.5mm ²	DRY CONTACTS (TERMINALS) 1.5mm ²		
CEI <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/>	L1 = RED L2 = BLACK L3 = BROWN	+24VDC = RED 0V = BLUE	PHASE = RED NEUTRE = BLUE	GREY		PHYSICAL SEGREGATION



GINO-AKA
ZAC DU BOIS CHALLAND
1, RUE DES PYRENEES
91090 LISSES - FRANCE

PT Buana Cahayatama
BALL MILL
P=1200KW-I=429A-U=1683V

Drawing part:
DESCRIPTION
Date:
03/06/2025

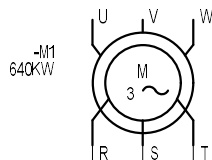
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S/N: 1493 327
Customer / Plant:
PT Buana Cahayatama

Init.:
VB

Rev.:
A
Total sheets:
12

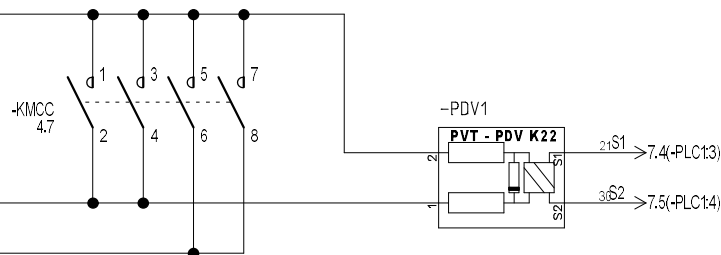
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2/12

CUSTOMER

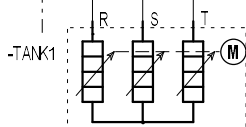


LRS

**HV
PANEL**



TANK



GINO-AKA
ZAC DU BOIS CHALLAND
1, RUE DES PYRENEES
91090 LISSES - FRANCE

PT Buana Cahayatama
BALL MILL
P=1200KW - I=429A - U=1683V

Drawing part:
HV POWER

Drawing no.:
S/N: 1493 327

Init.:
VB

Rev.:
A

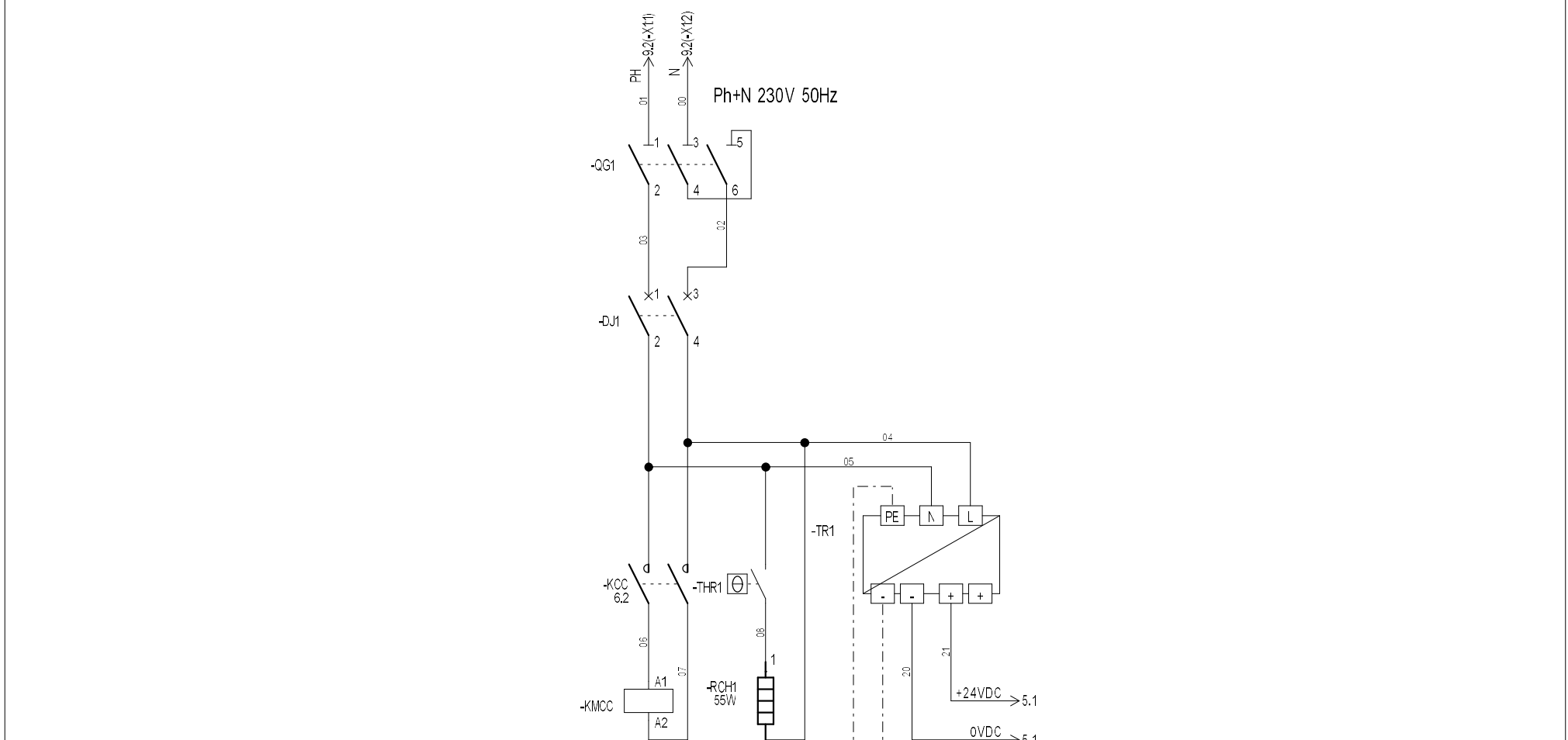
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Date:
03/06/2025

Customer / Plant:
PT Buana Cahayatama

Total sheets:
12

3/12



9.3(-X1PE) > PE

P	NO	NC	ANTICONDENSATION PANEL 55W
3,8	7,8		
	9,10		

SHORT-CIRCUIT CONTACTOR 200-500Vac



GINO-AKA
ZAC DU BOIS CHALLAND
1, RUE DES PYRENEES
91090 LISSES - FRANCE

PT Buana Cahayatama
BALL MILL
P=1200KW - I=429A - U=1683V

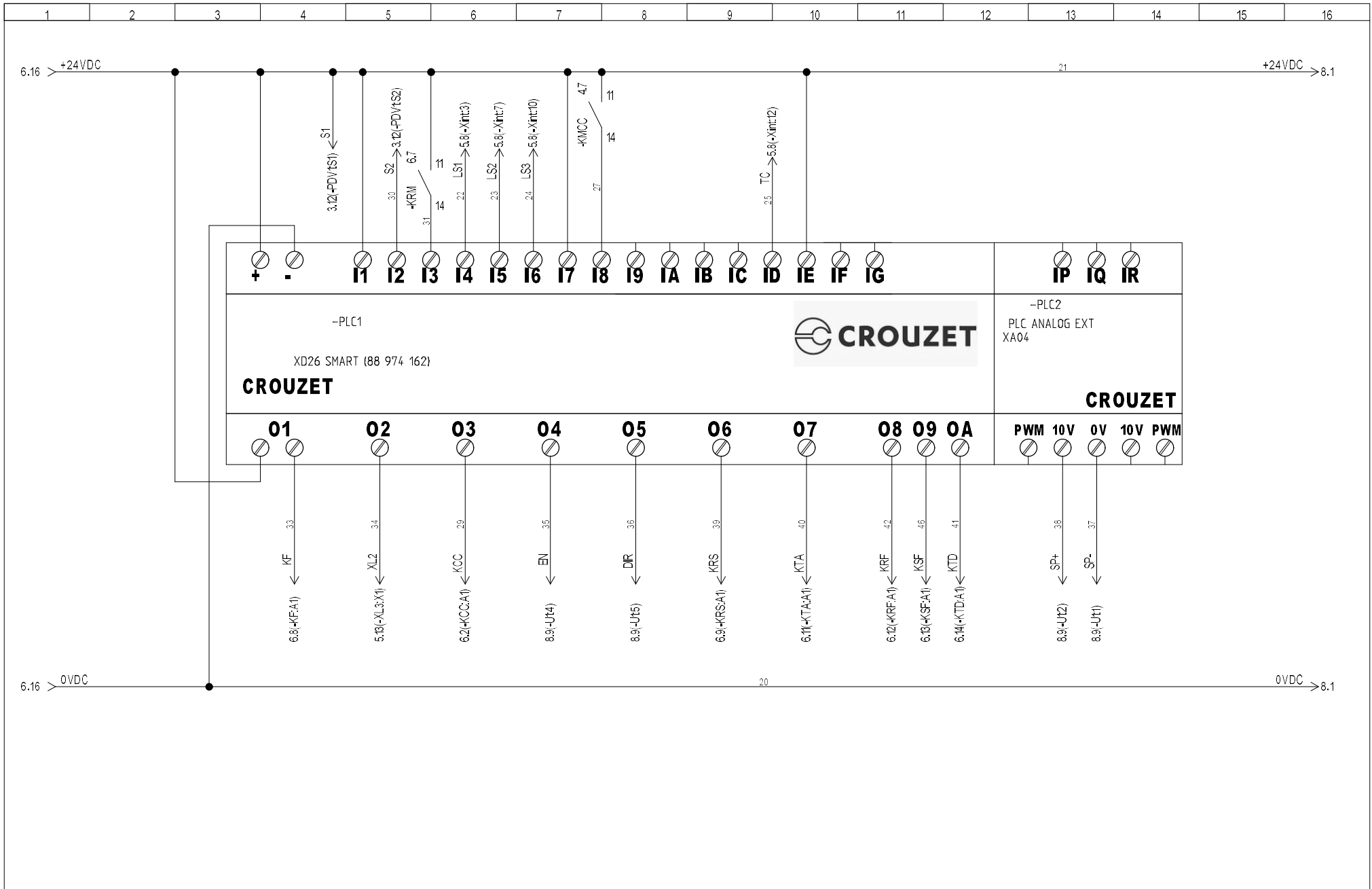
Drawing part:
POWER CIRCUIT
Date:
03/06/2025

Drawing no.:
S/N: 1493 327
Customer / Plant:
PT Buana Cahayatama

Init.:
VB

Rev.:
A
Total sheets:
12

Sheet:
4/12



GINO-AKA
 ZAC DU BOIS CHALLAND
 1, RUE DES PYRENEES
 91090 LISSES - FRANCE

PT Buana Cahayatama
 BALL MILL
 P=1200KW - I=429A - U=1683V

Drawing part:
 PLC

Date:
 03/06/2025

Drawing no.:
 S/N: 1493 327

Customer / Plant:
 PT Buana Cahayatama

Init.:
 VB

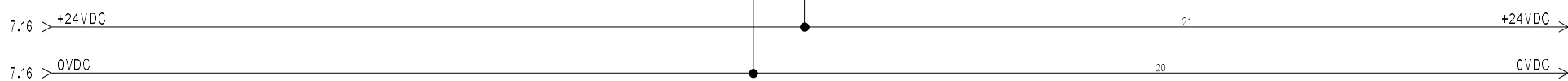
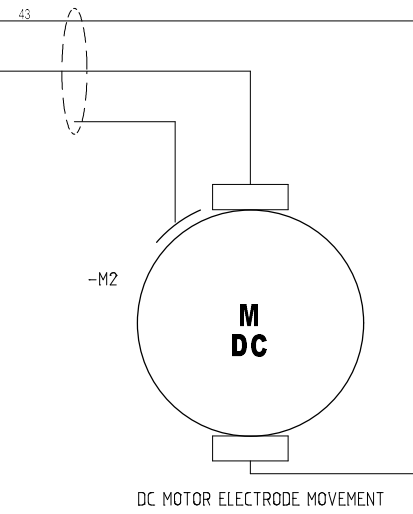
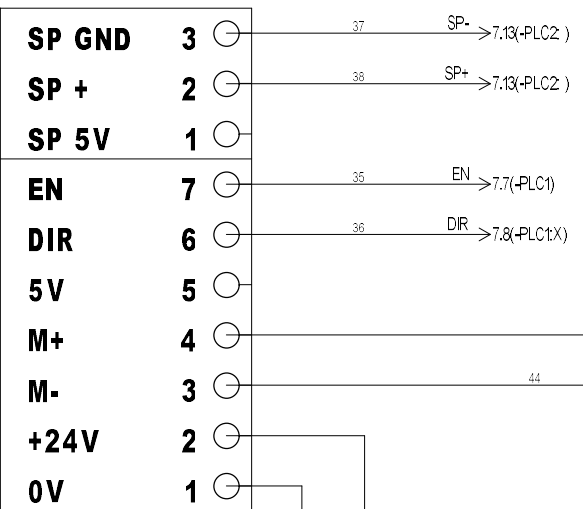
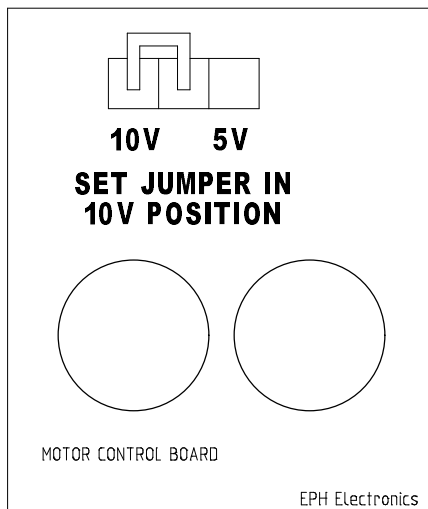
Rev.:
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Total sheets:
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Sheet:

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-U1



GINO-AKA
 ZAC DU BOIS CHALLAND
 1, RUE DES PYRENEES
 91090 LISSES - FRANCE

PT Buana Cahayatama
 BALL MILL
 P=1200KW - I=429A - U=1683V

Drawing part:
 DC MOTOR

Drawing no.:
 S/N: 1493 327

Init.:
 VB

Rev.:
 A

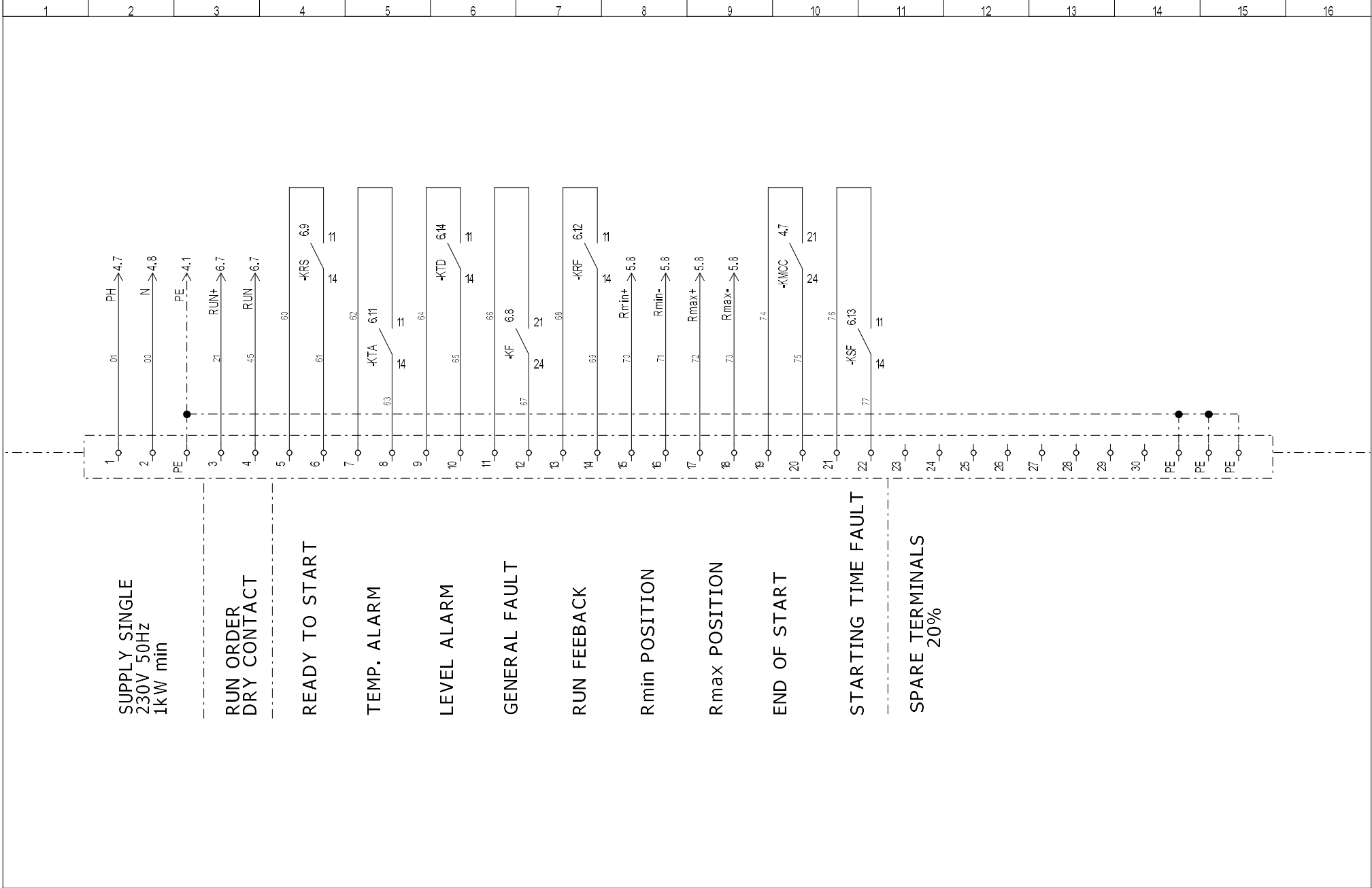
Sheet:

8/12

Date:
 03/06/2025

Customer / Plant:
 PT Buana Cahayatama

Total sheets:
 12



SUPPLY SINGLE
230V 50Hz
1kW min

RUN ORDER
DRY CONTACT

READY TO START

TEMP. ALARM

LEVEL ALARM

GENERAL FAULT

RUN FEEDBACK

Rmin POSITION

Rmax POSITION

END OF START

STARTING TIME FAULT

SPARE TERMINALS
20%



GINO-AKA
ZAC DU BOIS CHALLAND
1, RUE DES PYRENEES
91090 LISSES - FRANCE

PT Buana Cahayatama
BALL MILL
P=1200KW - I=429A - U=1683V

Drawing part:
TERMINALS
Date:
03/06/2025

Drawing no.:
S/N: 1493 327
Customer / Plant:
PT Buana Cahayatama

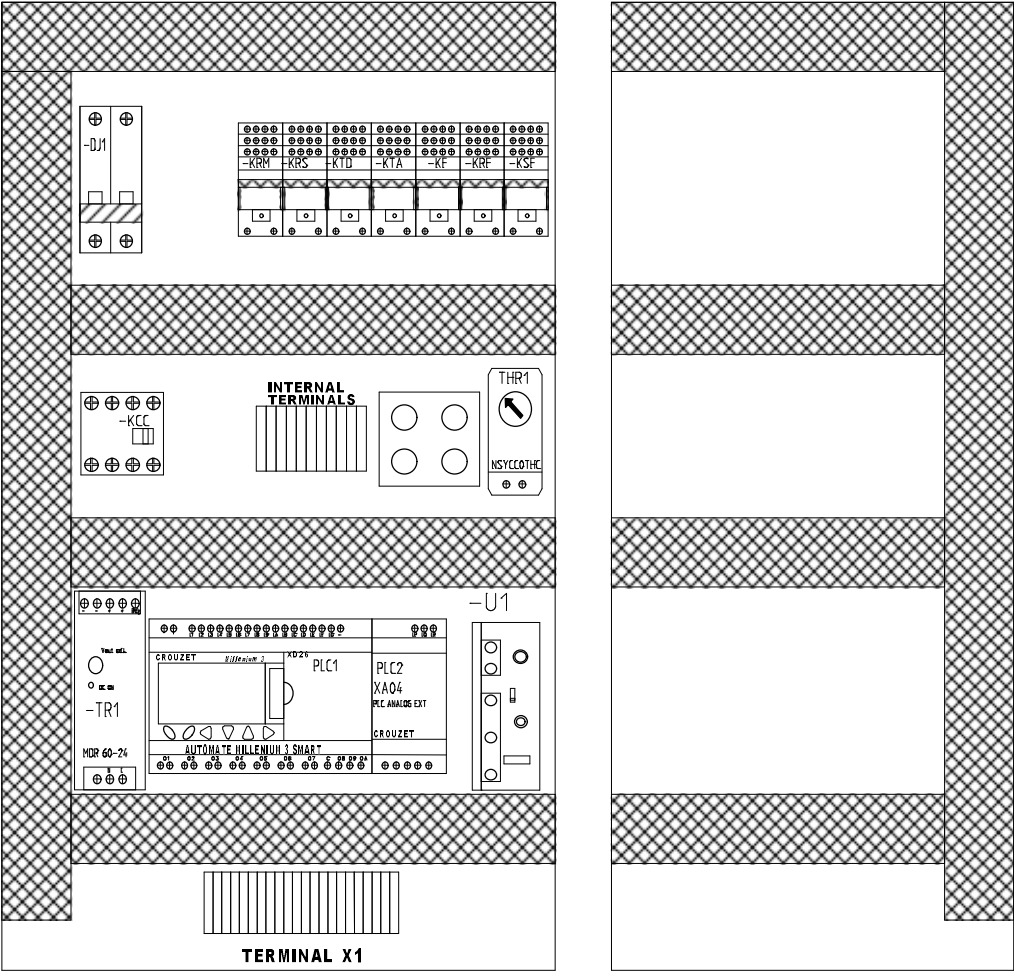
Init.:
VB

Rev.:
A
Total sheets:
12

Sheet:
9/12

Component layout

FRONT PANEL



GINO-AGA
 ZAC DU BOIS CHALLAND
 1, RUE DES PYRENEES
 91090 LISSES - FRANCE

PT Buana Cahayatama
 BALL MILL
 P=1200KW - I=429A - U=1683V

Drawing part:
 PANEL 1
 Date:
 03/06/2025

Drawing no.:
 S/N: 1493 327
 Customer / Plant:
 PT Buana Cahayatama

Init.:
 VB

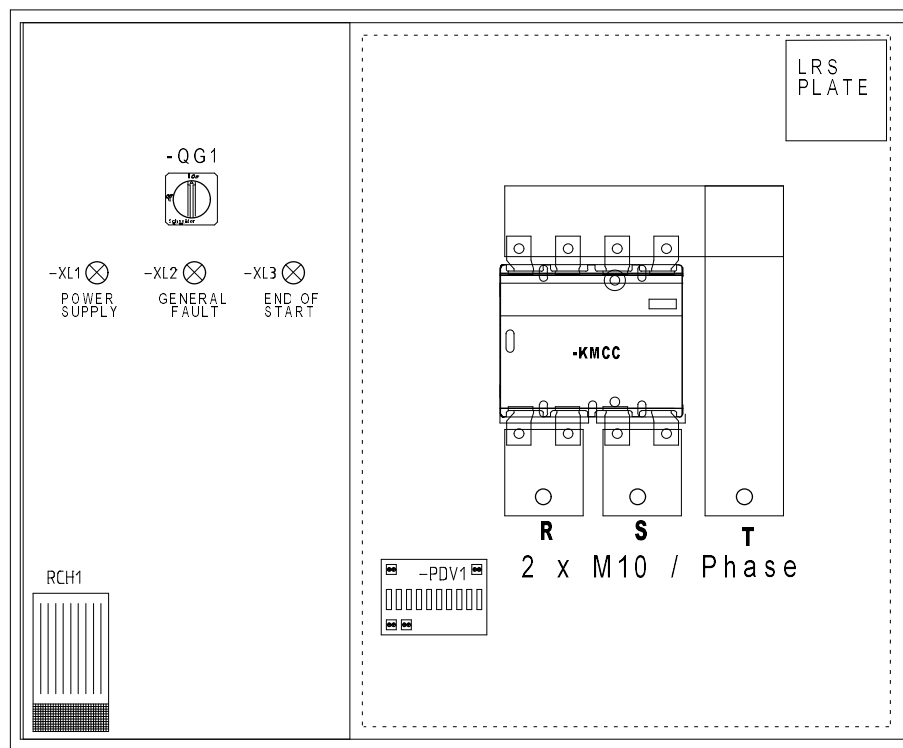
Rev.:
 A
 Total sheets:
 12

Sheet:
 10/12

FRONT VIEW

PANEL ONE DOOR
 925 x 800 x 400
 IP55
 RAL7035

TANK IP55
 RAL 7016



CONTROL CABLE
 ENTRANCE

ROTOR CABLE ENTRANCE

R S T
 2 x M10 / Phase



GINO-AKA
 ZAC DU BOIS CHALLAND
 1, RUE DES PYRENEES
 91090 LISSES - FRANCE

PT Buana Cahayatama
 BALL MILL
 P=1200KW - I=429A - U=1683V

Drawing part: PANEL2	Drawing no.: S/N: 1493 327	Init.: VB	Rev.: A	Sheet: 11/12
Date: 03/06/2025	Customer / Plant: PT Buana Cahayatama	Total sheets: 12		

Material List

Name	Folio	Column	Description	Reference	Manufacturer
-CT1	5	4	ELECTROLYTE TEMPERATURE SENSOR CTN	CRT89750182	CROUZET
-DJ1	4	7	CONTROL CIRCUIT-BREAKER	IC60N D6A A9F75206	SCHNEIDER ELECTRIC
-KCC	6	2	SHORT-CIRCUIT RELAY	LP4K0910BW3'	SCHNEIDER ELECTRIC
-KF	6	8	GENERAL FAULT	RXM4AB2BD	SCHNEIDER ELECTRIC
-KMCC	4	7	SHORT-CIRCUIT CONTACTOR 200-500Vac	LC1G1854 LSEA	SCHNEIDER ELECTRIC
-KRF	6	12	RUN FEEDBACK	RXM4AB2BD	SCHNEIDER ELECTRIC
-KRM	6	7	RUN ORDER	RXM4AB2BD	SCHNEIDER ELECTRIC
-KRS	6	9	READY TO START	RXM4AB2BD	SCHNEIDER ELECTRIC
-KSF	6	13	STARTING TIME FAULT	RXM4AB2BD	SCHNEIDER ELECTRIC
-KTA	6	11	TEMPERATURE ALARM	RXM4AB2BD	SCHNEIDER ELECTRIC
-KTD	6	14	LEVEL ALARM	RXM4AB2BD	SCHNEIDER ELECTRIC
-LS1	5	3	HIGH RESISTANCE SWITCH	XCKP212M12	SCHNEIDER ELECTRIC
-LS2	5	3	LOW RESISTANCE SWITCH	XCKP212M12	SCHNEIDER ELECTRIC
-LS3	5	4	ELECTROLYTE LEVEL DETECTOR	LV280/20	GINO-AKA
-M1	3	5	HV WOUND MOTOR	Ref.	MANUFACTURER
-M2	8	12	DC MOTOR ELECTRODE MOVEMENT	24VDC 2A	IGUS
-PDV1	3	11	Atenuator Voltage Card	PDV 10-K22-OPT	GINO-AKA
-PLC1	7	4	PLC MILLENIUM 3 SMART	XD26 SMART (88 974 162)	CROUZET
-PLC2	7	13	PLC ANALOG EXT	XA04	CROUZET
-QG1	4	7	MAIN ISOLATOR SWITCH	VCF0	SCHNEIDER ELECTRIC
-RCH1	4	8	ANTICONDENSATION PANEL 55W	NSYCR55WU2 110/230V 50/60Hz	SCHNEIDER ELECTRIC
-TANK1	3	5	SK1 LIQUID RESISTANCE STARTER TANK	SK1-RAL7016 ELECTRODES	GINO-AKA
-THR1	4	8	CABINET TEMPERATURE SENSOR	NSYCC0THC	SCHNEIDER ELECTRIC
-TR1	4	10	POWER SUPPLY 230/24VDC	EDR 120-24	MEANWELL
-U1	8	7	MOTOR CONTROL BOARD	DGS 24/03/M 576b	EPH Electronics
-XL1	5	11	UNDER VOLTAGE - WHITE	XB4 BVB1	SCHNEIDER ELECTRIC
-XL2	5	12	FAULT RED	XB4 BVB4	SCHNEIDER ELECTRIC
-XL3	5	13	END OF START - BLUE	XB4 BVB6	SCHNEIDER ELECTRIC