

Schema Elettrico / Wiring Diagram

85505130/001/A

Modello macchina / Machine model:

EKE-IPE/ST/AS 51

Dati elettrici / Electrical data

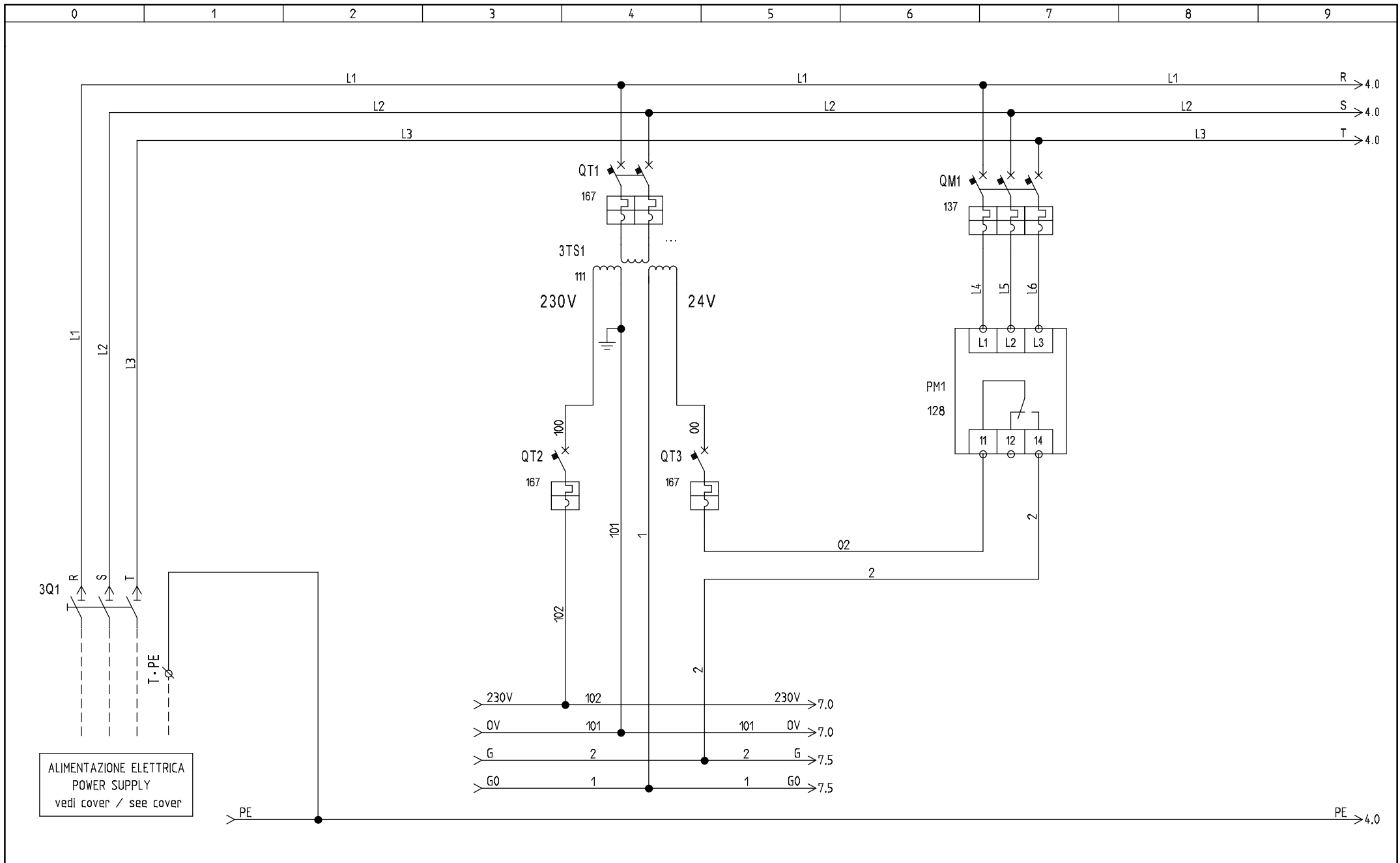
Tensione esercizio / Main Voltage:	400V/3ph
Tensione ausiliari / Auxiliary Voltage:	230Vac-24Vac
Frequenza / Frequency:	50 Hz
Corrente nominale / Nominal current:	15.3 A
Potenza max. impegnata / Max. total power input:	8.1 kW
Corrente di spunto / Starting current:	76.0 A

Limiti operativi / Operating limits

Range di tensione / Voltage range	+/- 10%
Squilibrio tensione / Voltage unbalance:	+/- 2%
Range di frequenza / Frequency range:	+/- 1%

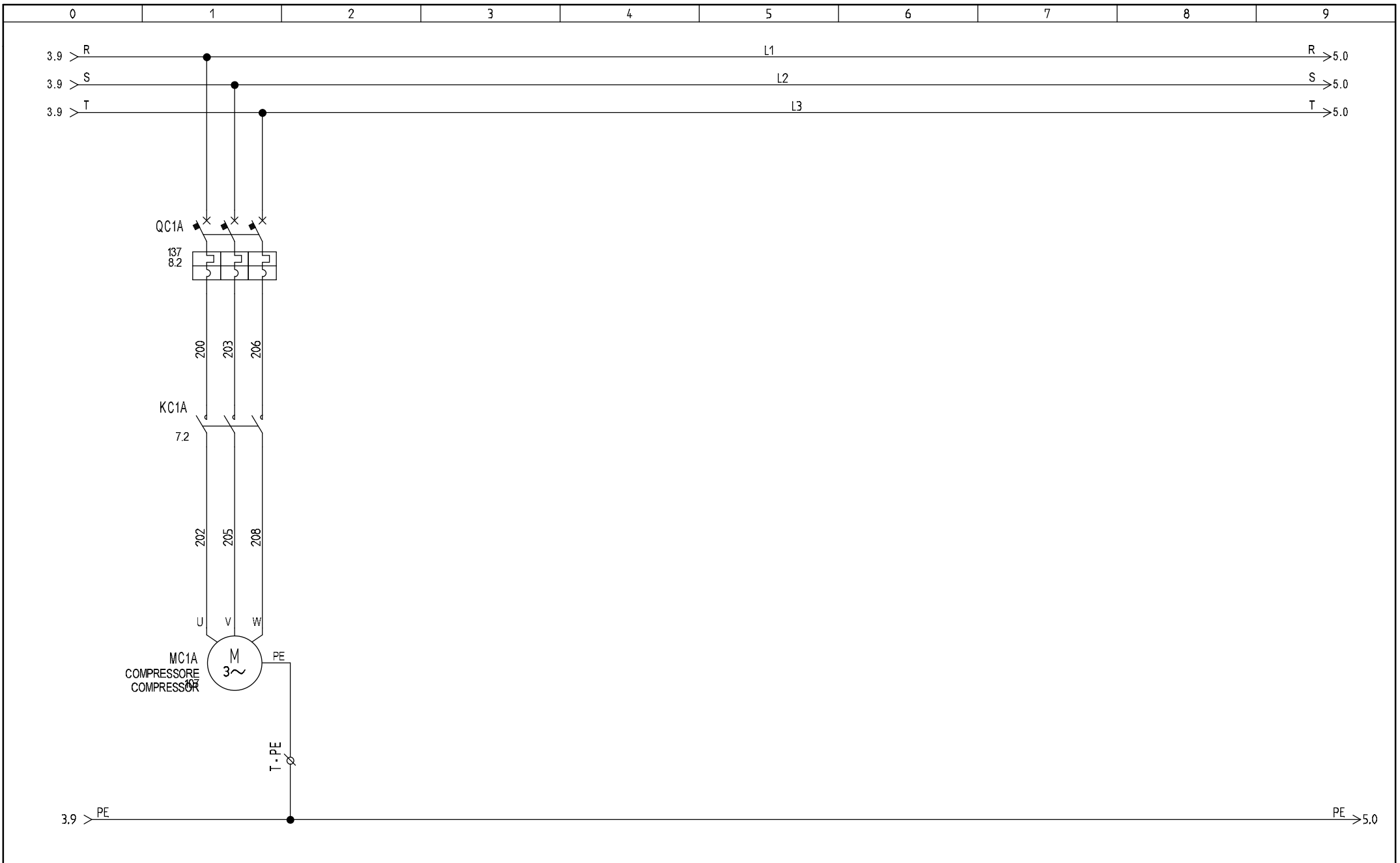
REV A	Descrizione revisione / Revision description FIRST ISSUE			Model: EKE-IPE/ST/AS 51	<p>This drawing is a property of Euroklimat S.p.A. and we reserve the copyright to all our designs which cannot be reproduced, transmitted, disclosed to third parties or utilized in any form without first obtaining our written consent. Contravention will be prosecuted. This drawing is subject to modification time to time to suit construction purpose.</p> <p>File name: 85505130-001-A</p>	SECTION 01	
11/01/2020	Drafter CT	Checked AC	Approved AC	Drawing no.: 85505130/001		DRAFT.: CT	DATE: 11/01/2020

SECTION	DESCRIZIONE	DESCRIPTION	D	F	COD. / PAGE No.
01	COPERTINA	COPERTINA	-	-	1 - 2
02	ALIMENTAZIONE POTENZA E SERVIZI AUSILIARI	POWER SUPPLY & AUXILIARY SERVICES	-	-	3
03	LINEA POTENZA COMPRESSORI	COMPRESSOR POWER SUPPLY	-	-	4
04	LINEA POTENZA VENTILATORI	FAN POWER SUPPLY	-	-	5
05	LINEA POTENZA POMPE	PUMPS POWER SUPPLY	-	-	6
06	SERVIZI AUSILIARI	AUXILIARY SERVICES	-	-	7
07	MICROPROCESSORE - INGRESSI DIGITALI	MICROPROCESSOR - DIGITAL INPUT	-	-	8
08	MICROPROCESSORE - INGRESSI ANALOGICI	MICROPROCESSOR - ANALOGUE INPUT	-	-	9
09	MICROPROCESSORE - USCITE DIGITALI	MICROPROCESSOR - DIGITAL OUTPUT	-	-	10
10	MICROPROCESSORE - USCITE ANALOGICHE	MICROPROCESSOR - ANALOGUE OUTPUT	-	-	11
11	DRIVER VALVOLA ESPANSIONE ELETTRONICA	ELECTRONIC EXPANSION VALVE DRIVER	-	-	12
12	COLLEGAMENTI CLIENTE	USER CONNECTIONS	-	-	13
13	TOPOGRAFICO SCHEDE MICROPROCESSORE	TOPOGRAPHIC MICROPROCESSOR CARD	-	-	14
14	TOPOGRAFICO QUADRO ELETTRICO	ELECTRIC SWITCHBOARD LAYOUT	-	-	15
15	LISTA COMPONENTI	COMPONENTS LIST	-	-	16
16	LEGENDA	LEGEND	-	-	17

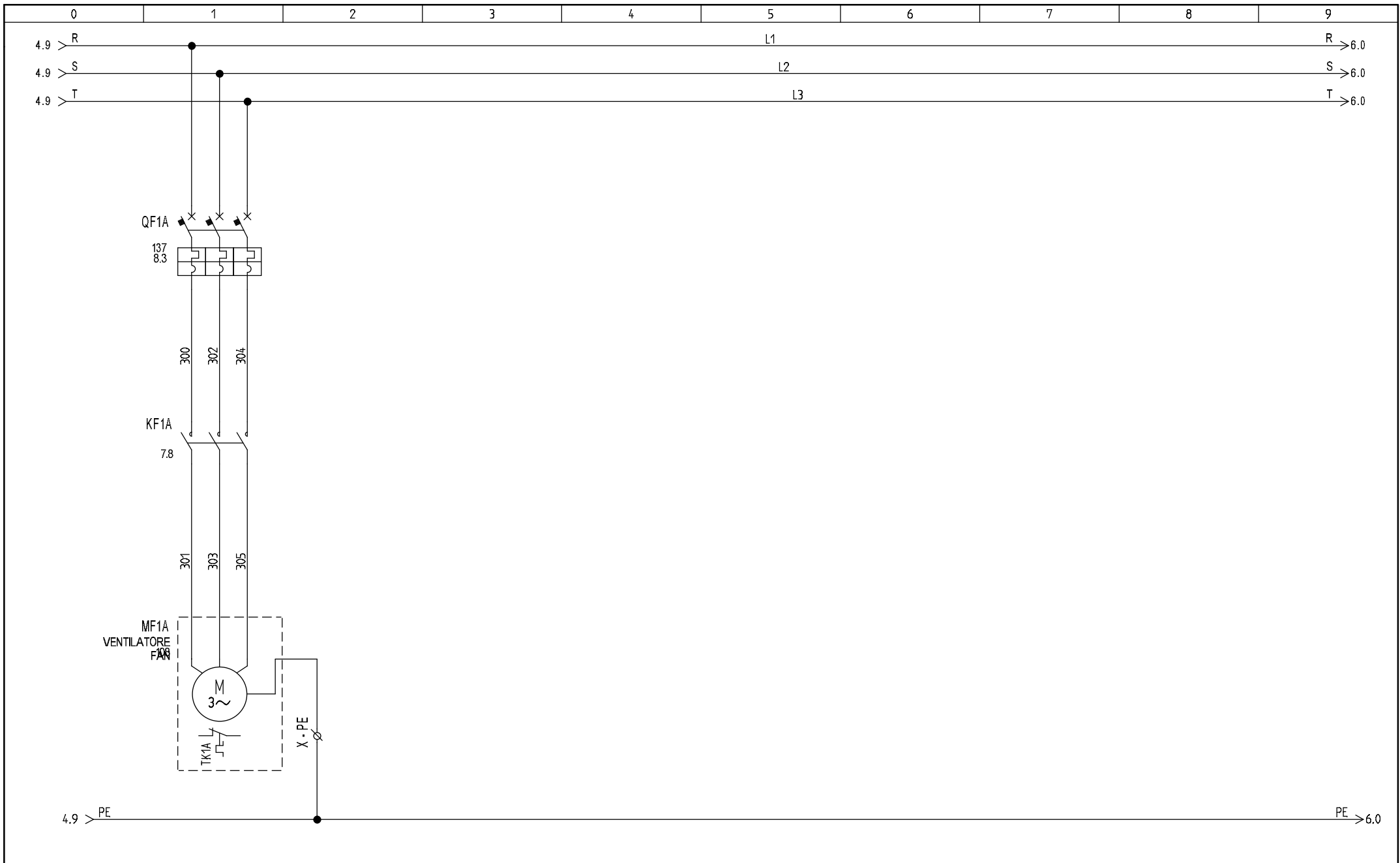


ALIMENTAZIONE ELETTRICA
POWER SUPPLY
vedi cover / see cover

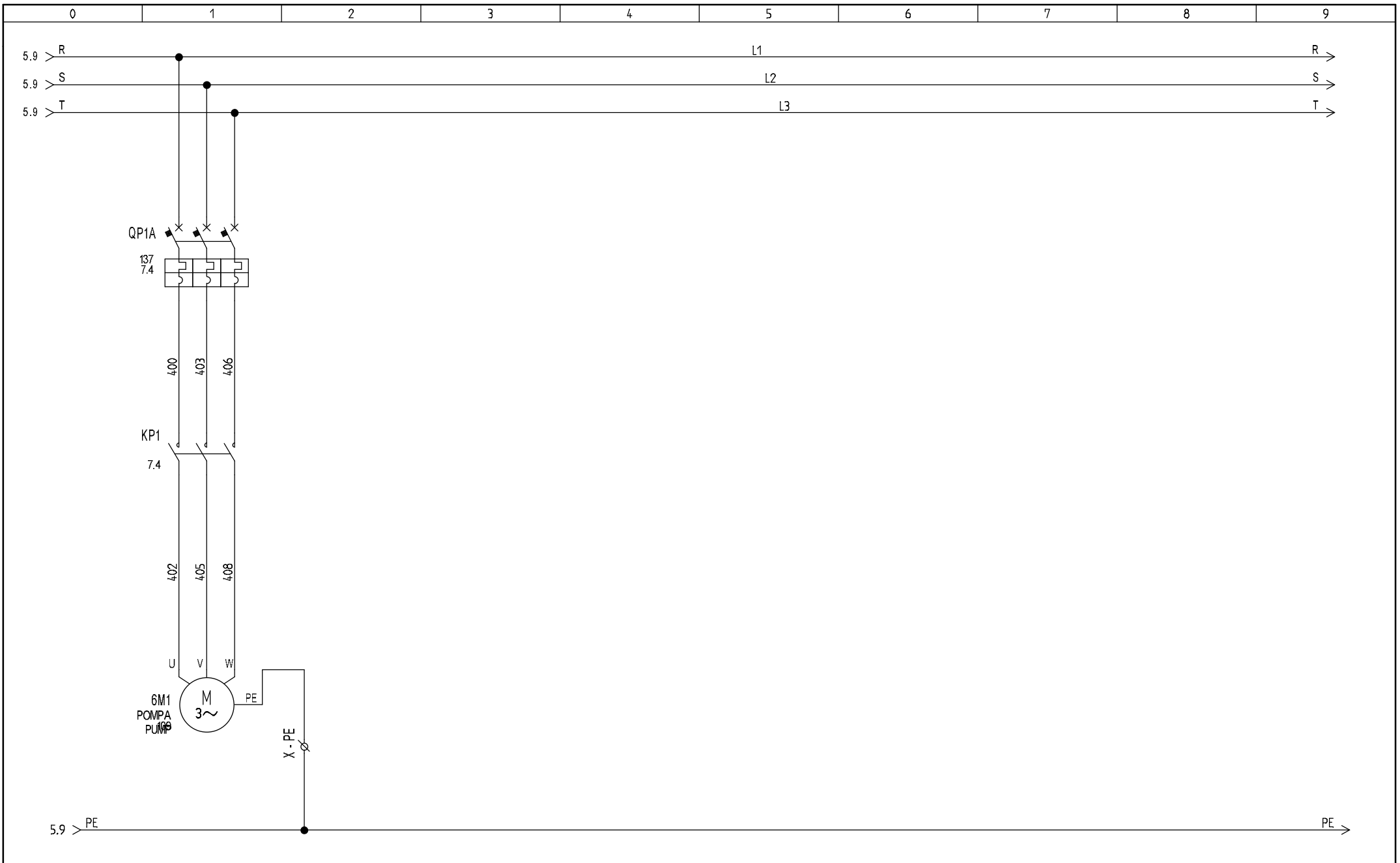
REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	ALIMENTAZ. POTENZA E SERV.AUSILIARI/POWER SUPPLY & AUXILIARY SERVICES - / -	SECTION 02
11/01/2020	Drafter CT	Approved AC	File name: 85505130-001-A DRAFT.: CT	SHEET 3
		Drawing no.: 85505130/001	DATE: 11/01/2020	



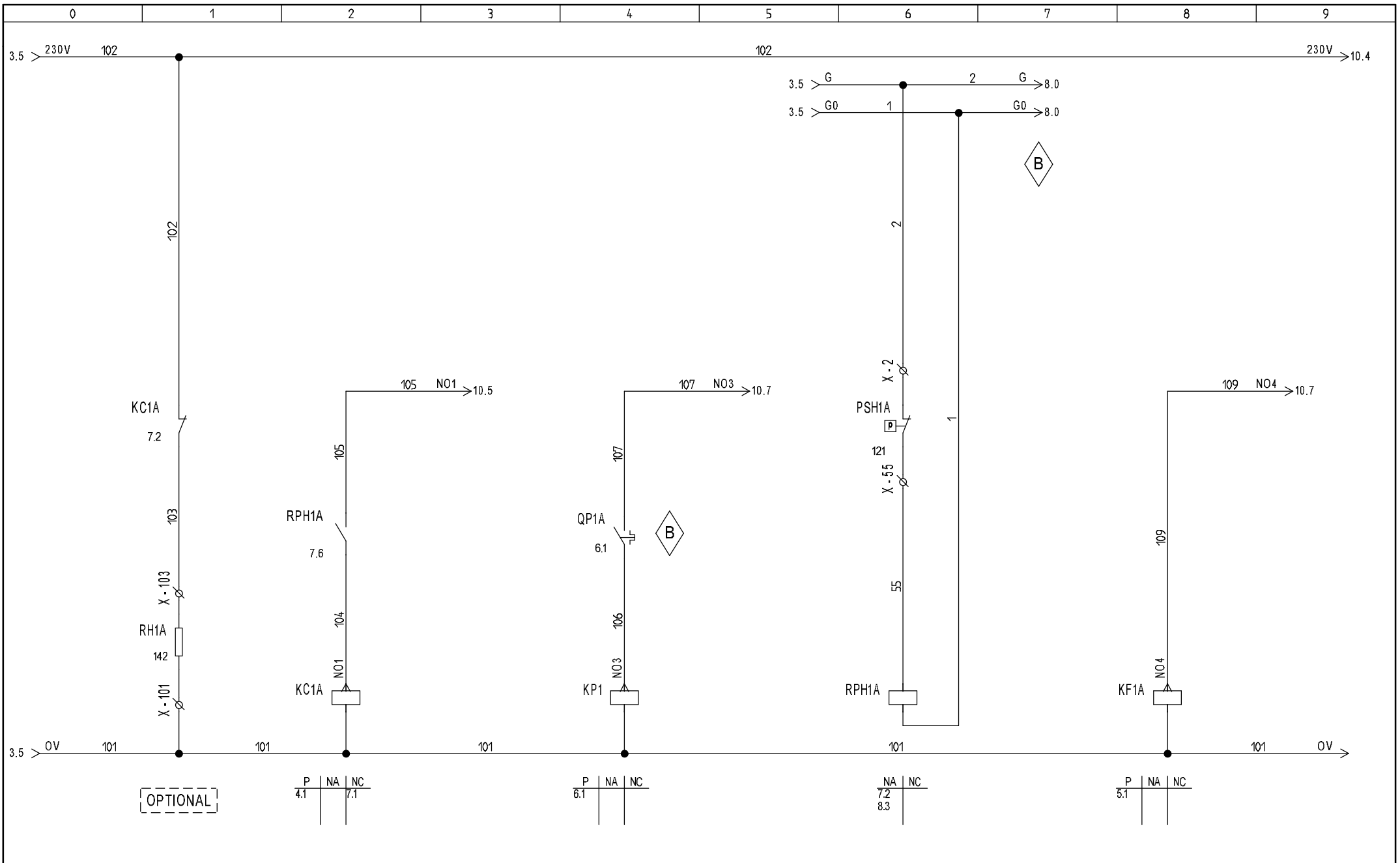
REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	LINEA POTENZA COMPRESSORI / COMPRESSOR POWER SUPPLY	SECTION 03
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	File name: 85505130-001-A
			DRAFT.: CT	DATE: 11/01/2020
				SHEET 4



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	LINEA POTENZA VENTILATORI / FAN POWER SUPPLY	SECTION 04
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	File name: 85505130-001-A
			DRAFT.: CT	DATE: 11/01/2020
				SHEET 5



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	LINEA POTENZA POMPA / PUMP POWER SUPPLY	SECTION 05
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	File name: 85505130-001-A
			DRAFT.: CT	DATE: 11/01/2020
				SHEET 6



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	SERVIZI AUSILIARI / AUXILIARY SERVICES	SECTION 06
11/01/2020	Drafter CT	Approved AC	File name: 85505130-001-A	SHEET 7
		Drawing no.: 85505130/001	DRAFT.: CT	DATE: 11/01/2020

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GO	B1	B2	B3	ID5	ID3	ID1
G	GND	GND	Y	GND	ID4	ID2

MICROCHILLER 2
Second Edition

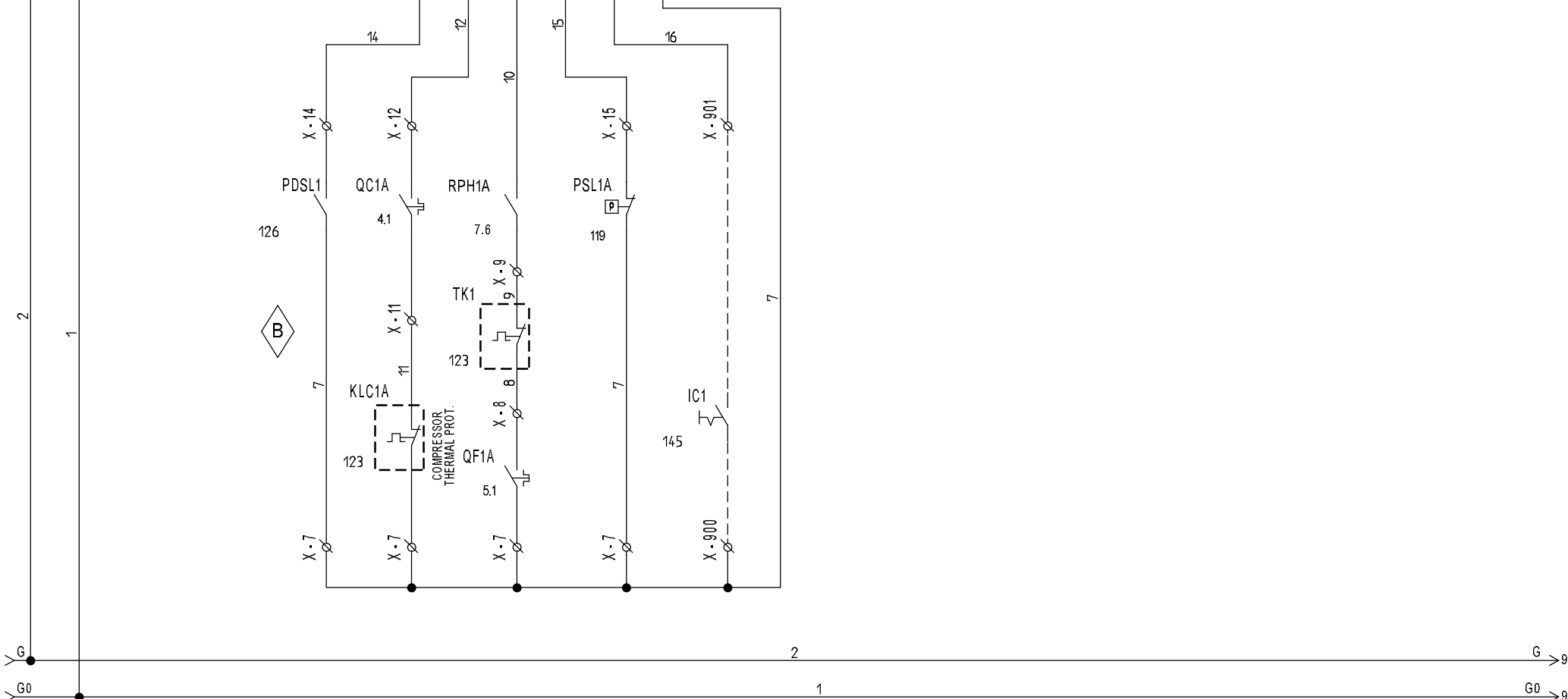
NO1	C1/2	C1/2	C3/4	X	C5
NO2	NO3	NO4	C3/4	X	NO5

INPUT CONNECTOR

OUTPUT CONNECTOR

RS485

G	GO	B1	B2	B3	GND	Y	GND	ID1	ID2	ID3	ID4	ID5	GND	+V	B4	GND	C1/2	NO1	C1/2	NO2	C3/4	NO3	C3/4	NO4	X	X	C5	NO5	TX/RX	GND
---	----	----	----	----	-----	---	-----	-----	-----	-----	-----	-----	-----	----	----	-----	------	-----	------	-----	------	-----	------	-----	---	---	----	-----	-------	-----



7.7 > G → 9.0
7.7 > GO → 9.0

REV A	Modification FIRST ISSUE
11/01/2020	Drafter CT Approved AC

Model: EKE-IPE/ST/AS 51

Drawing no.: 85505130/001

INGRESSI DIGITALI MICROPROCESSORE / MICROPROCESSOR DIGITAL INPUT

SECTION 07

File name: 85505130-001-A

DRAFT: CT

DATE: 11/01/2020

SHEET 8

9MCH1
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GO	B1	B2	B3	ID5	ID3	ID1
G	GND	GND	Y	GND	ID4	ID2

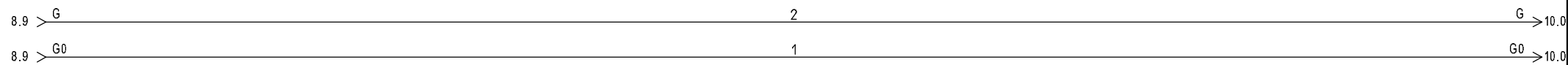
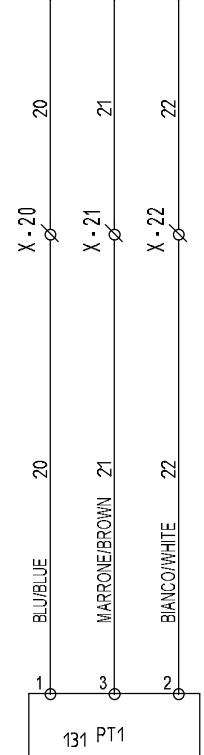
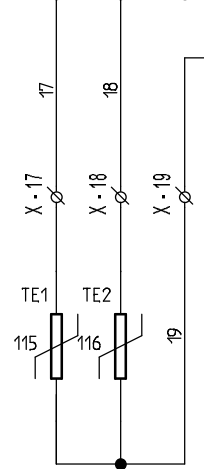
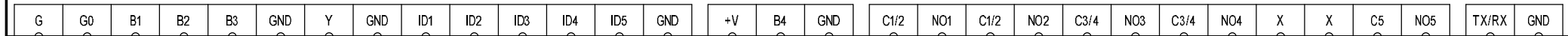
MICROCHILLER 2
Second Edition

NO1	C1/2	C1/2	C3/4	X	C5
NO2	NO3	NO4	C3/4	X	NO5

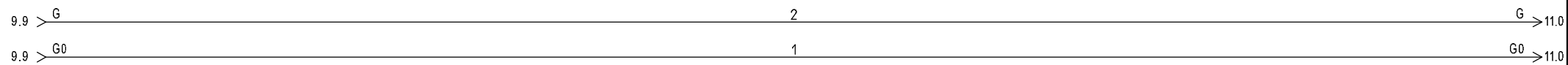
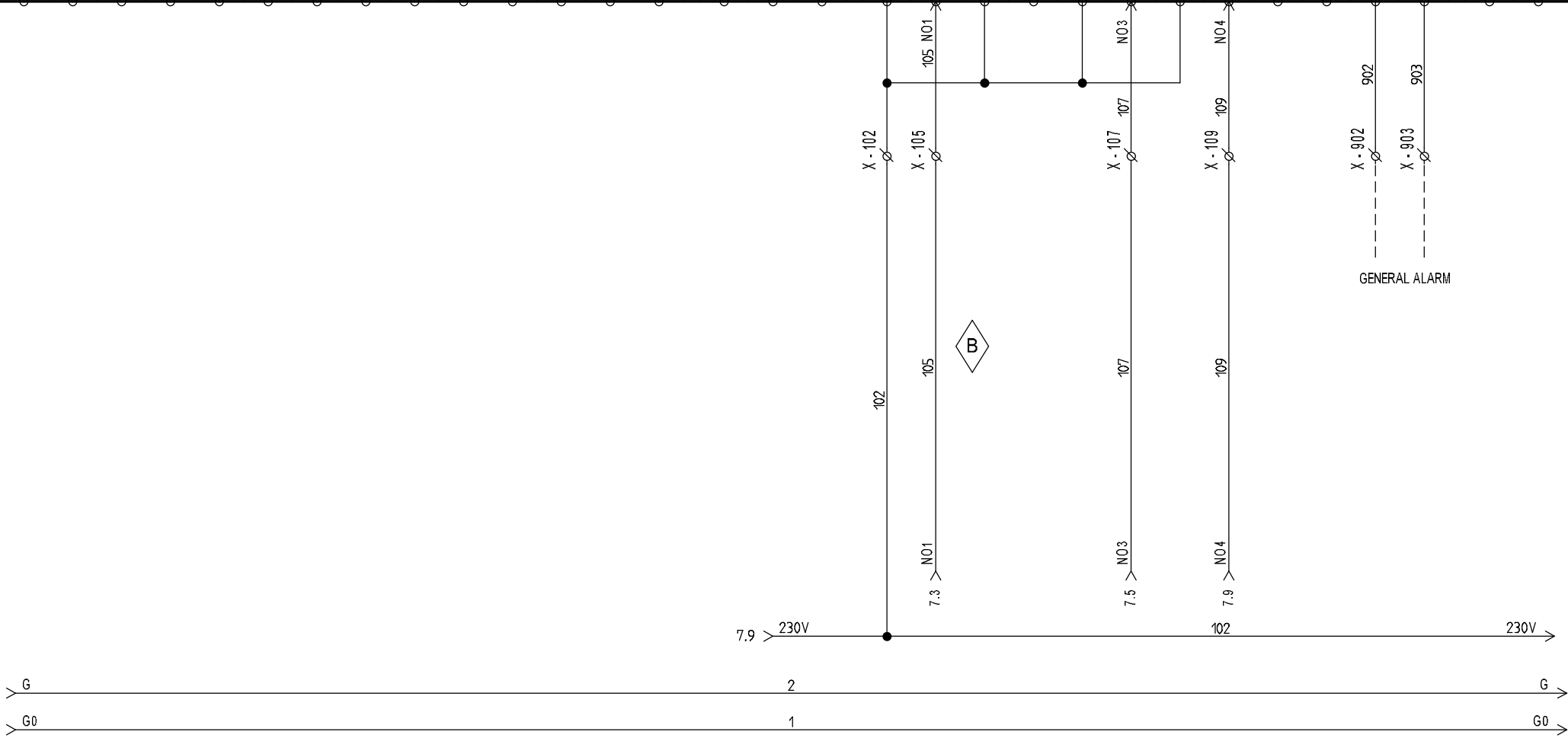
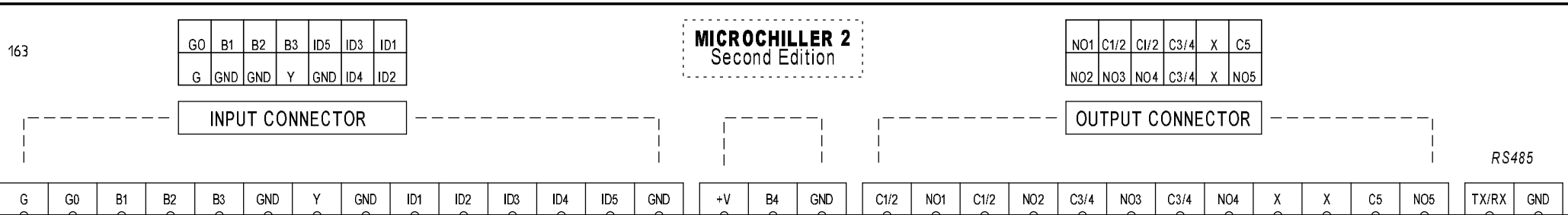
INPUT CONNECTOR

OUTPUT CONNECTOR

RS485



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	INGRESSI ANALOGICI MICROPROCESSORE / MICROPROCESSOR ANALOGUE INPUT	SECTION 08
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	SHEET 9
			File name: 85505130-001-A	
			DRAFT: CT	DATE: 11/01/2020



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	USCITE DIGITALI MICROPROCESSORE / MICROPROCESSOR DIGITAL OUTPUT	SECTION 09
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	SHEET 10
			File name: 85505130-001-A	
			DRAFT: CT	DATE: 11/01/2020

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GO	B1	B2	B3	ID5	ID3	ID1
G	GND	GND	Y	GND	ID4	ID2

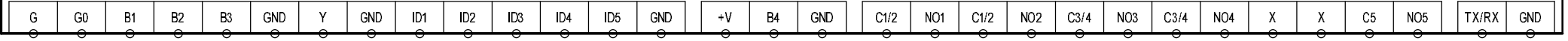
MICROCHILLER 2
Second Edition

NO1	C1/2	C1/2	C3/4	X	C5
NO2	NO3	NO4	C3/4	X	NO5

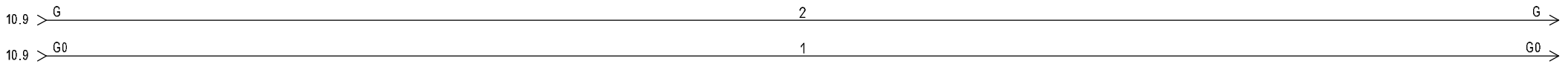
INPUT CONNECTOR

OUTPUT CONNECTOR

RS485



INTENTIONALLY BLANK



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	USCITE ANALOGICHE MICROPROCESSORE / MICROPROCESSOR ANALOGUE OUTPUT	SECTION 10
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	SHEET 11
		File name: 85505130-001-A	DRAFT.: CT	DATE: 11/01/2020

0

1

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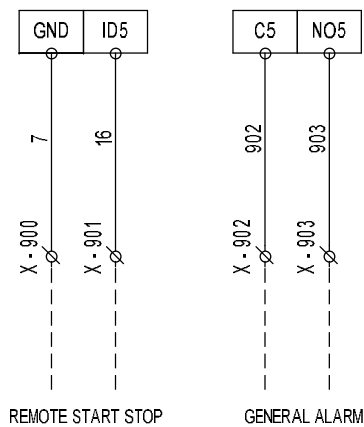
7

8

9

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REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	DRIVER VALVOLA ESP. ELETTRONICA / ELECTRONIC EXP. VALVE DRIVER	SECTION 11
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	File name: 85505130-001-A
			DRAFT.: CT	DATE: 11/01/2020
				SHEET 12

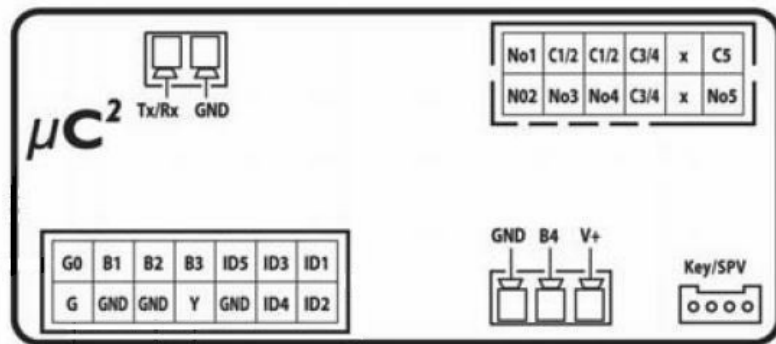
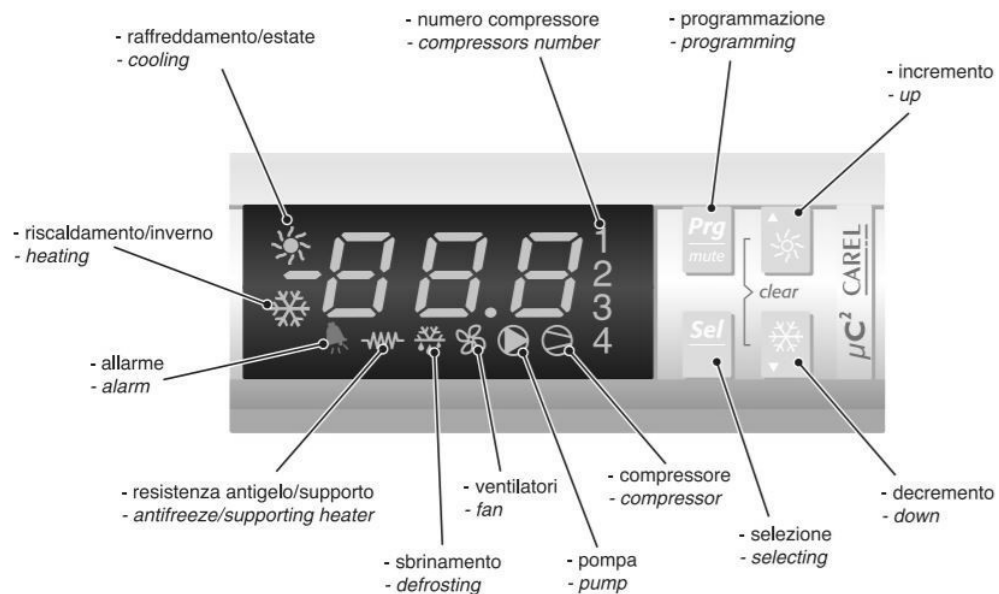


REV A	Modification FIRST ISSUE
11/01/2020	Drafter CT Approved AC

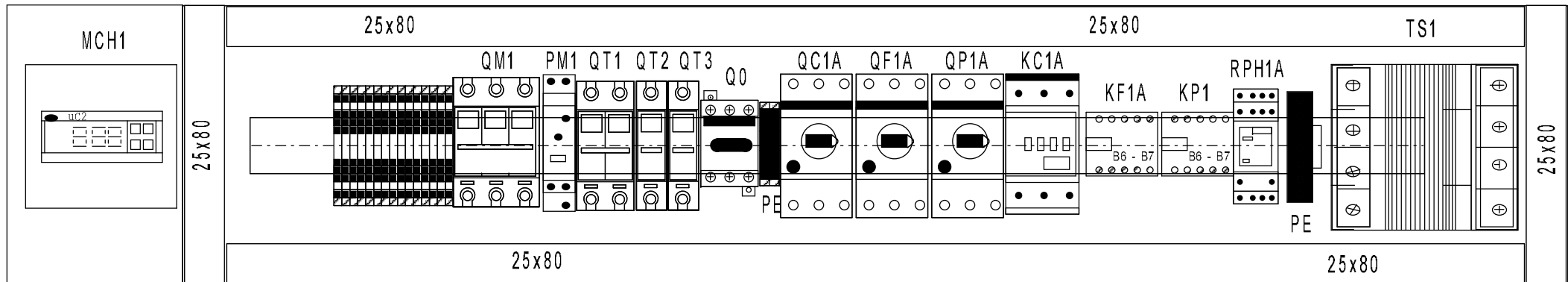
Model: EKE-IPE/ST/AS 51
 Drawing no.: 85505130/001

CONNESSIONI CLIENTE / USER CONNECTION	
File name:	85505130-001-A
DRAFT.:	CT
DATE:	11/01/2020

SECTION	12
SHEET	13



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	TOPOGRAFICO SCHEDA MICROPROCESSORE / MICROPROCESSOR LAYOUT	SECTION 13
11/01/2020	Drafter CT	Approved AC	File name: 85505130-001-A	SHEET 14
		Drawing no.: 85505130/001	DRAFT.: CT	DATE: 11/01/2020

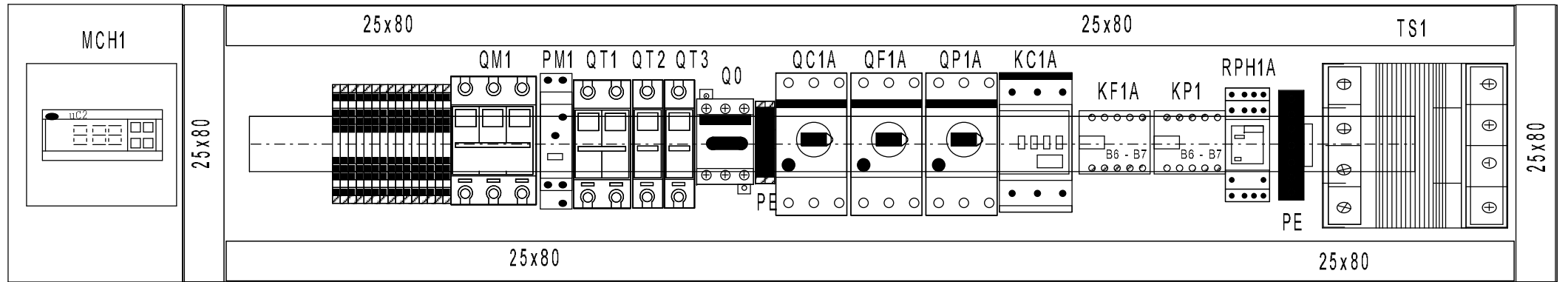


REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	TOPOGRAFICO QUADRO ELETTRICO / ELECTRIC SWITCHBOARD LAYOUT	SECTION 14
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	SHEET 15
			File name: 85505130-001-A	
			DRAFT.: CT	DATE: 11/01/2020

0	1	2	3	4	5	6	7	8	9		
ITEM	DESCRIPTION / MODEL	Power Supply	Max Power	FLA	LRA	CIRCUIT BREAKER	CONTACTOR	FUSES	THERMAL RELAY	Wires Type Elect. Switchboard	Wires Type On field
COMPRESSORE/COMPRESSOR/VERDICHTER/COMPRESSEUR			[kW]	[A]	[A]	Model - [A]	Model - [A]	Model - [A]	Model - [A]	Model + mmq	Model + mmq
MC1A	C-SBP205H38B	400V/3Ph/50Hz	7.1	12.3	73.0	MS116 - 16A	AF16 30 01 13	-	-	2,5 mmq	FG16 - 4G1,5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
VENTILATORI COND./CONDENSER FANS/LÜFTER VERFLÜSSIGER											
MF1A	A4D450A01401-106AW0770	400V/3Ph/50Hz	0.48	0.98	-	MS116 - 1A	B6 30 10 84	-	-	1,5 mmq	FG16 - 4G1,5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
POMPA/PUMP/PUMPE/POMPE											
MP1	CDXH/A 70/07 C/C/VITON	400V/3Ph/50Hz	0.55	2.0	-	MS116 - 2,5A	B6 30 10 84	-	-	1,5 mmq	FG16 - 4G1,5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

ITEM	DESCRIPTION	MODEL
Q0	SEZIONATORE GENERALE / MAIN SWITCH	OT 25 F 3 ABB
QT1	INTERRUTTORE MAGNETOTERMICO TRASFORMATORE / CIRCUIT BREAKER TRANSFORMER	S 202 C 2 ABB
TS1	TRASFORMATORE SERVIZI AUSILIARI / AUX. SERVICES TRANSFORMER	150 VA 1TC 150 - 043 - 1 ESME
QT2	INTERRUTTORE MAGNETOTERMICO TRASFORMATORE / CIRCUITBREAKER TRANSFORMER	S 201 C 2 ABB
QT3	INTERRUTTORE MAGNETOTERMICO TRASFORMATORE / CIRCUITBREAKER TRANSFORMER	S 201 C 2 ABB
PM1	RELE' SEQUENZA FASI / SEQUENCE PHASE RELAY	70.61.8.400.0000 FINDER
RPH1A	RELE' / RELAY	55.34.9.24.0040 + 98.84.2 FINDER
CT1A	CONVERTITORE SEGNALE / SIGNAL CONVERTER	-
-	CONTATTO AUSILIARIO Q / AUX CONTACT Q	HKF1 - 11 ABB N3

REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 51	TOPOGRAFICO QUADRO ELETTRICO / ELECTRIC SWITCHBOARD LAYOUT	SECTION 15
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505130/001	SHEET 16
			File name: 85505130-001-A	
			DRAFT.: CT	DATE: 11/01/2020



REV A	Modification Emissione
Drafter CT	Approved AC

Model: **EKE-IPE/ST/AS 51**

Drawing no.: 85505130-001-A

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File name: 85505130-001-A

DRAFT.: CT DATE: 11/01/2020

Components list

Item (-)	Description	Type	Sheet	Column
2Q1	SEZIONATORE GENERALE / GENERAL MAIN SWITCH	OT200 U03P - ABB	2	0
2Q2	MAGNETOTERMICO COMPRESS. / COMPRESSOR MAIN SWITCH	M165 - 54 - ABB	2	3
K-01A	MOTORE COMPRESSORE / COMPRESSOR MOTOR	-----	2	3
K-01B	MOTORE COMPRESSORE / COMPRESSOR MOTOR	-----	2	5
2Q3	MAGNETOTERMICO COMPRESS. / COMPRESSOR MAIN SWITCH	M165 - 54 - ABB	2	5
F-01	MOTORE VENTILATORE / FAN MOTOR	-----	3	2
3F1	FUSIBILE VENTILATORE / FUN FUSES	E93 / 30J - ABB + J30A BUSMAN		
F-03	MOTORE VENTILATORE / FAN MOTOR	-----	3	3
F-02	MOTORE VENTILATORE / FAN MOTOR	-----	3	5
F-04	MOTORE VENTILATORE / FAN MOTOR	-----	3	6
4Q1	MAGNETOTERMICO POMPA / PUMP MAIN SWITCH	M132 - 16 - ABB	4	1
P-01	MOTORE POMPA / PUMP MOTOR	-----	4	1
4TS1	TRASFORMATORE SERVIZI AUSILIARI / AUX. TRANSFORMER	400 VA cod.OCM040070S309 - ITALWEBER	4	5
4F2	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	PMX - CC + CCMR 2A WIMEX	4	5
4F1	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	PMX - CC + CCMR 2A WIMEX	4	5
4F3	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	SFR.4.G12 + S506 - 5A CABUR + BUSMAN	4	6
4CF1	RELE' SEQUENZA FASI / PHASE SEQUENCE RELAY	70.618.400.0000 FINDER	4	8
4F4	FUSIBILI RELE SEQ. FASE / SEQ. PHASE REALAY	PMX - CC + CCMR 1A WIMEX	4	8
SPIE1	PROTEZIONE COMPRESSORE / COMP. MOTOR PROTECTION	-----	5	0
2Q2	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	5	1
2Q3	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	5	4
SPIE2	PROTEZIONE COMPRESSORE / COMP. MOTOR PROTECTION	-----	5	4
HY-01A	VALVOLA SOLENOIDE / SOLENOID VALVE	-----	5	7
HY-01B	VALVOLA SOLENOIDE / SOLENOID VALVE	-----	5	8
4Q1	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	6	1
6K1	CONTATTORE POMPA / PUMP CONTACTOR	AF 12 - 30 - 10 - 13 ABB	6	1
6K2	CONTATTORE COMPRESSORE / COMPRESSOR CONTACTOR	AF 52 - 30 - 00 - 13 ABB	6	4
6K3	CONTATTORE COMPRESSORE / COMPRESSOR CONTACTOR	AF 52 - 30 - 00 - 13 ABB	6	6
RH-01A	RESISTENZA CARTER / CRANKASE OIL HEATHER	-----	7	0
RH-01B	RESISTENZA CARTER / CRANKASE OIL HEATHER	-----	7	1
REVISIONE	MODIFICA	PROGETTO: 85505130-001-A COMMESSA: EKE-IPE/ST/AS 51 CLIENTE:		FOGLIO 1
		TITOLO:		DI 2
DATA	FIRMA	DIS.: CT DATA: 11/01/2020		◀▶ 2

Morsettieria grafica

Morsettieria:
X

Descrizione		Tipo cavo		Nome cavo		----- Cavo -----		Colonna	Foglio
REVISIONE	MODIFICA					PROGETTO: 85505130-001-A		FOGLIO	2
DATA	FIRMA					COMMESSA: EKE-IPE/ST/AS 51		DI	3
						CLIENTE:			
						TITOLO: X		1 <> 3	
						DIS.: CT		DATA: 11/01/2020	
Destinazione	Mors.	N°	N° Filo	Origine					
F-01:U	⊖	L17	L17	7K2:2					
F-03:U	⊖	L17							
F-01:V	⊖	L19	L19	7K2:4					
F-03:V	⊖	L19							
F-01:W	⊖	L21	L21	7K2:6					
F-03:W	⊖	L21							
	⊖	2	2	4F1:2					
	⊖	2	2	6K2:1					
SPIE1:1/L	⊖	2	2	301:1					
SPIE2:1/L	⊖	2	2	8MCH1:C1/2					
	⊖	2	2	8MCH1:C1/2					
	⊖	2	2	8MCH1:C3/4					
	⊖	2	2	8MCH1:C3/4					
	⊖	2	2						
	⊖	2	2	9ESP1:C6/7					
	⊖	2	2	9ESP1:C6/7					
	⊖	2	2	9ESP1:C8/9					
	⊖	2	2	9ESP1:C8/9					
	⊖	3	3	4TS1:4					
	⊖	3	3	SPIE1:L2/N					
	⊖	3	3	SPIE2:L2/N					
	⊖	3	3	HY-01A:A2					
6K1:A2	⊖	3	3	HY-01B:A2					
6K3:A2	⊖	3	3	RH-01A:2					
7K1:A2	⊖	3	3	RH-01B:2					
	⊖	5	5	4CF1:14					
	⊖	5	5	8F1:2					
	⊖	5	5	9F1:2					
	⊖	6	6	4TS1:5					
	⊖	6	6	8MCH1:G0					
	⊖	6	6	9ESP1:G0					
SPIE1:M1	⊖	8							
	⊖	8	8	8MCH1:ID2					
2Q2:1	○	9	9	SPIE1:M2					
	⊖	10							
	⊖	10	10	2Q2:2					
	⊖	10	10	7K4:2					
	⊖	10	10	PSL-01A:NC					
8MCH1:GND	⊖	10							
SPIE2:M1	⊖	11							
	⊖	11	11	9ESP1:ID7					
2Q3:1	○	12	12	SPIE2:M2					
	⊖	13	13	2Q3:2					
	⊖	13							
	⊖	13	13	PSL-01B:NC					
	⊖	13	13	9ESP1:GND					
HY-01A:A1	○	14	14	6K2:2					
HY-01B:A1	○	15	15	6K3:2					
4Q1:1	○	16	16	8MCH1:ND3					
6K2:A1	○	18	18	8MCH1:ND1					
6K3:A1	○	19	19	9ESP1:ND6					
RH-01A:1	○	20	20	6K2:2					
RH-01B:1	○	21	21	6K3:2					
PSH-02B:NA	⊖	22							

