

Schema Elettrico / Wiring Diagram / ... / ...

85505150/001

Modello macchina / Machine model:

EKE-IPE/ST/AS 101

Dati elettrici / Electrical data

Tensione esercizio / Main Voltage:	400V/3ph
Tensione ausiliari / Auxiliary Voltage:	230Vac-24Vac
Frequenza / Frequency:	50 Hz
Corrente nominale / Nominal current:	24.9 A
Potenza max. impegnata / Max. total power input:	13.3 kW
Corrente di spunto / Starting current:	108 A

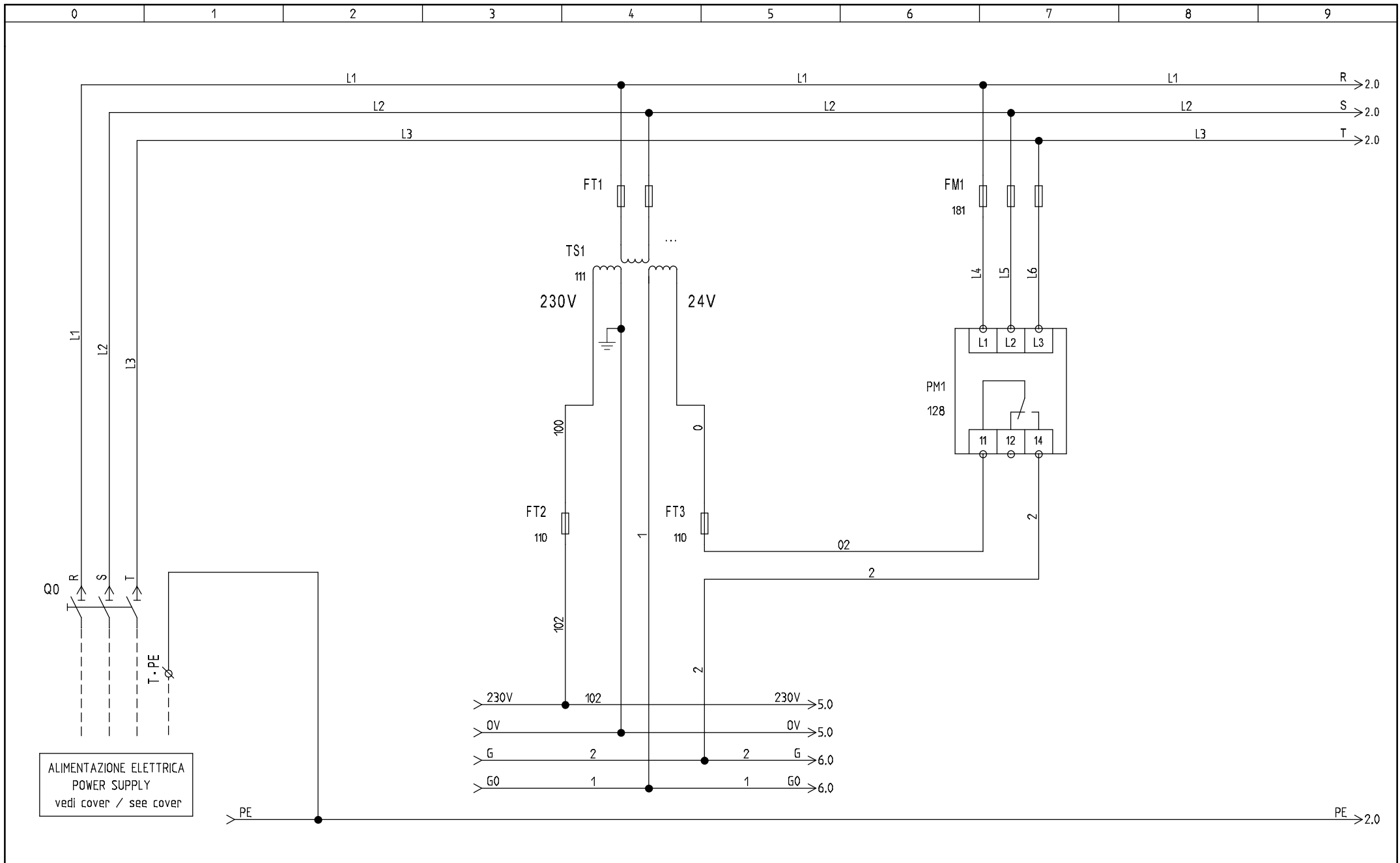
Limiti operativi / Operating limits

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

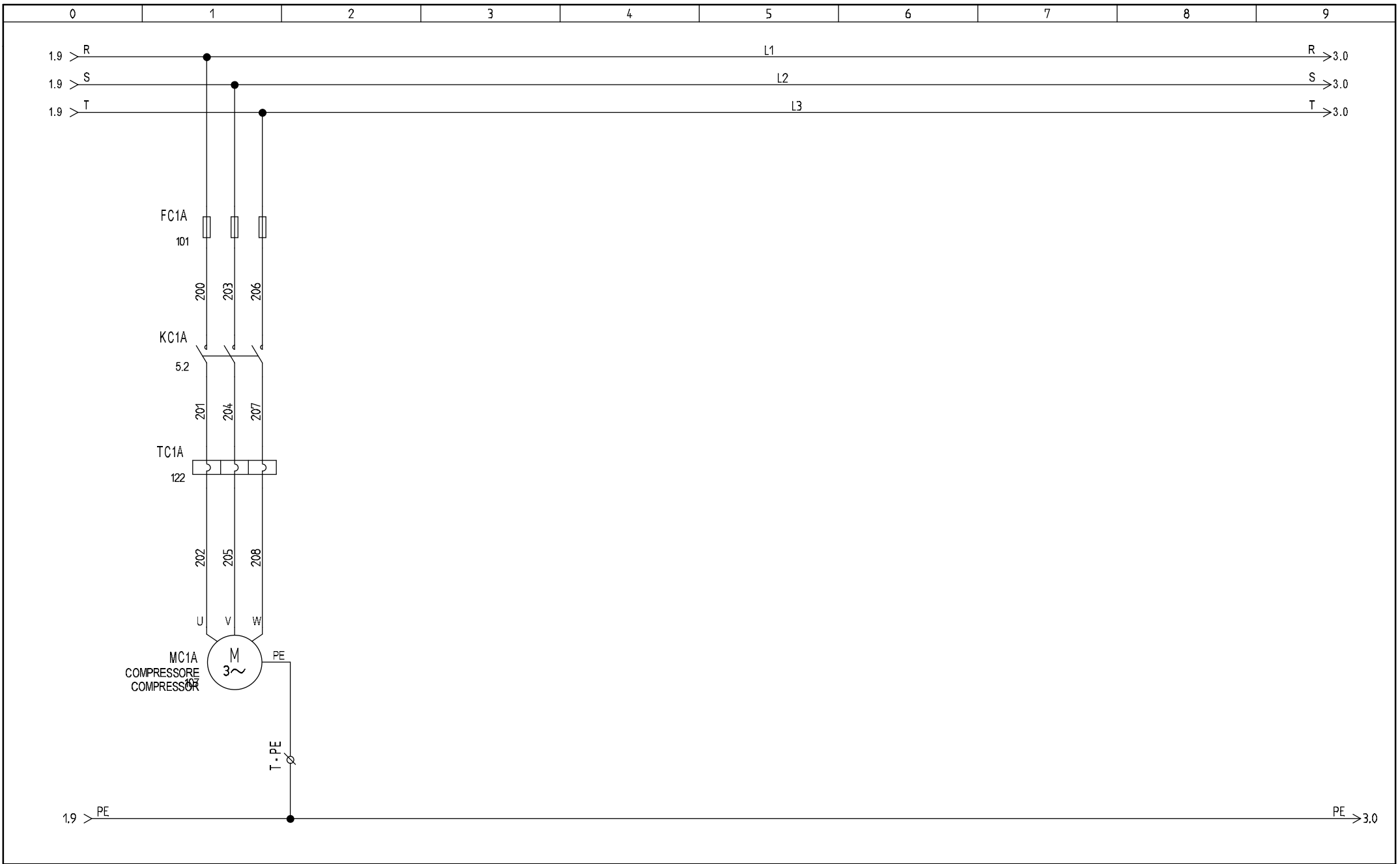
REV A	Descrizione revisione / Revision description FIRST ISSUE			Model: EKE-IPE/ST/AS 101	This drawing is a property of Euroklimat S.p.A. and we reserve the copyright to all our designs which cannot be reproduced, transmitted, disclosed to third parties or utilized in any form without first obtaining our written consent. Contravention will be prosecuted. This drawing is subject to modification time to time to suit construction purpose.	SHEET 1
11/01/2020	Drafter CT	Checked AC	Approved AC	Drawing no.: 85505170/001		File name: 85505150-001-A
					DRAFT.: CT	DATE: 11/01/2020

0	1	2	3	4	5	6	7	8	9
SECTION	DESCRIZIONE	DESCRIPTION	D	F	COD. / PAGE No.				
01	COPERTINA	COPERTINA	-	-	...				
02	ALIMENTAZIONE POTENZA E SERVIZI AUSILIARI	POWER SUPPLY & AUXILIARY SERVICES	-	-	...				
03	LINEA POTENZA COMPRESSORI	COMPRESSOR POWER SUPPLY	-	-	...				
04	LINEA POTENZA VENTILATORI	FAN POWER SUPPLY	-	-	...				
05	LINEA POTENZA POMPE	PUMPS POWER SUPPLY	-	-	...				
06	SERVIZI AUSILIARI	AUXILIARY SERVICES	-	-	...				
07	MICROPROCESSORE - INGRESSI DIGITALI	MICROPROCESSOR - DIGITAL INPUT	-	-	...				
08	MICROPROCESSORE - INGRESSI ANALOGICI	MICROPROCESSOR - ANALOGUE INPUT	-	-	...				
09	MICROPROCESSORE - USCITE DIGITALI	MICROPROCESSOR - DIGITAL OUTPUT	-	-	...				
10	MICROPROCESSORE - USCITE ANALOGICHE	MICROPROCESSOR - ANALOGUE OUTPUT	-	-	...				
11	DRIVER VALVOLA ESPANSIONE ELETTRONICA	ELECTRONIC EXPANSION VALVE DRIVER	-	-	...				
12	COLLEGAMENTI CLIENTE	USER CONNECTIONS	-	-	...				
13	TOPOGRAFICO SCHEDE MICROPROCESSORE	TOPOGRAPHIC MICROPROCESSOR CARD	-	-	...				
14	TOPOGRAFICO QUADRO ELETTRICO	ELECTRIC SWITCHBOARD LAYOUT	-	-	...				
15	LISTA COMPONENTI	COMPONENTS LIST	-	-	...				
16	LEGENDA	LEGEND	-	-	...				

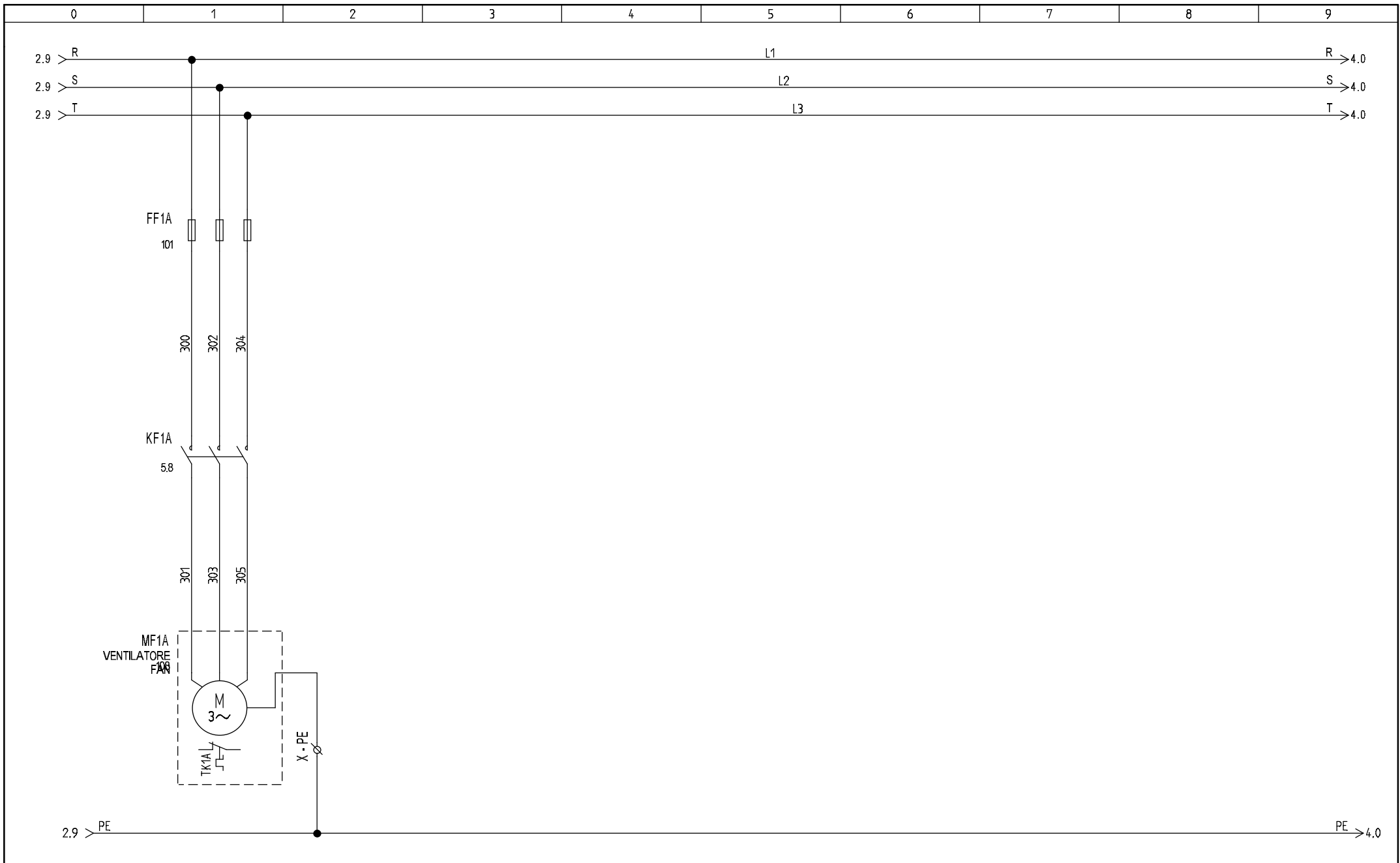
REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	ELENCO SEZIONI / SECTIONS LIST D / F		SHEET 2
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505150/001	File name: 85505150-001-A	SECTION 01
			DRAFT.: CT	DATE: 11/01/2020	



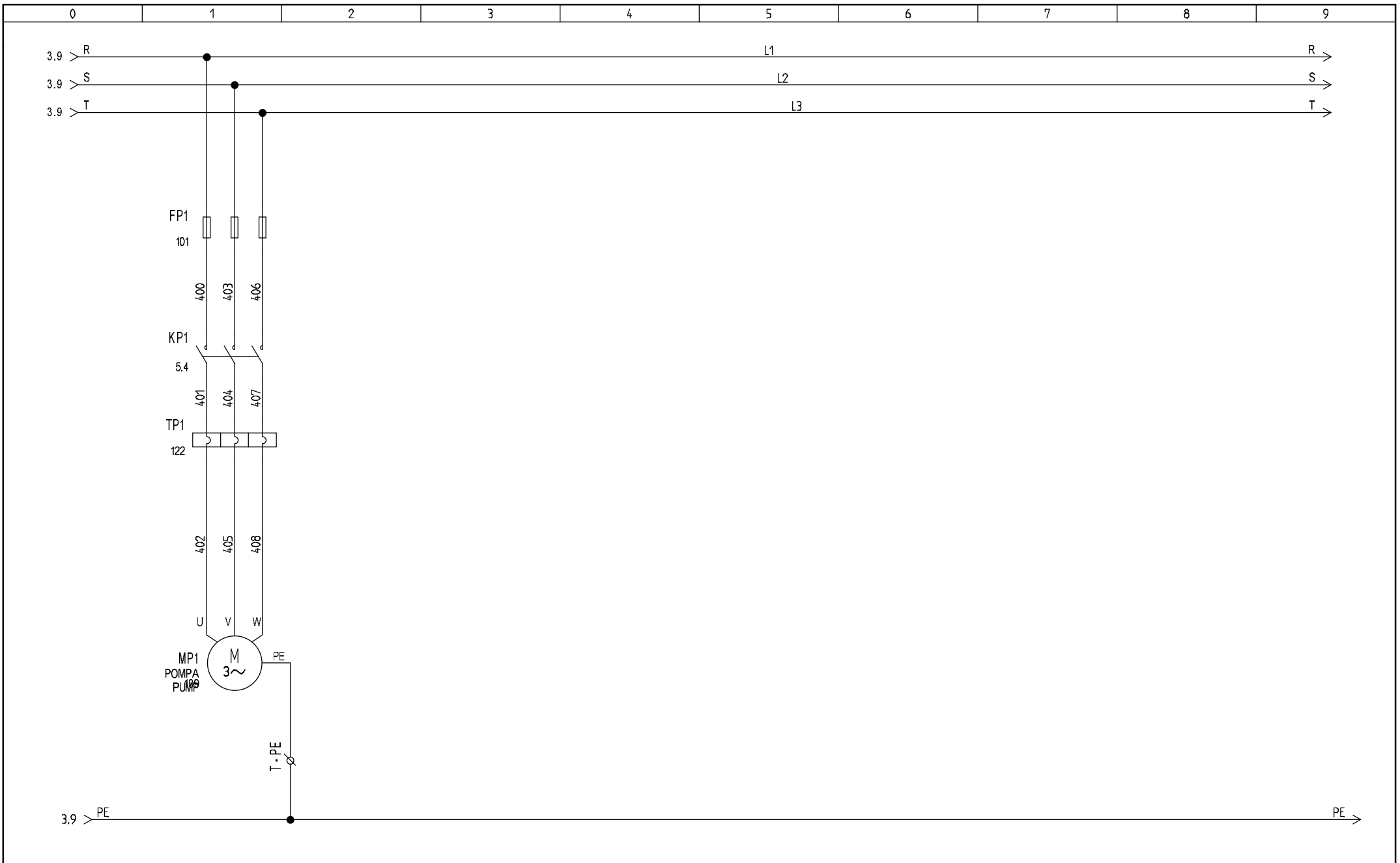
REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	ALIMENTAZ. POTENZA E SERV.AUSILIARI/POWER SUPPLY & AUXILIARY SERVICES - / -	SHEET 1
11/01/2020	Drafter CT	Approved AC	File name: 85505150-001-A DRAFT.: CT	SECTION 02
		Drawing no.: 85505150/001	DATE: 11/01/2020	



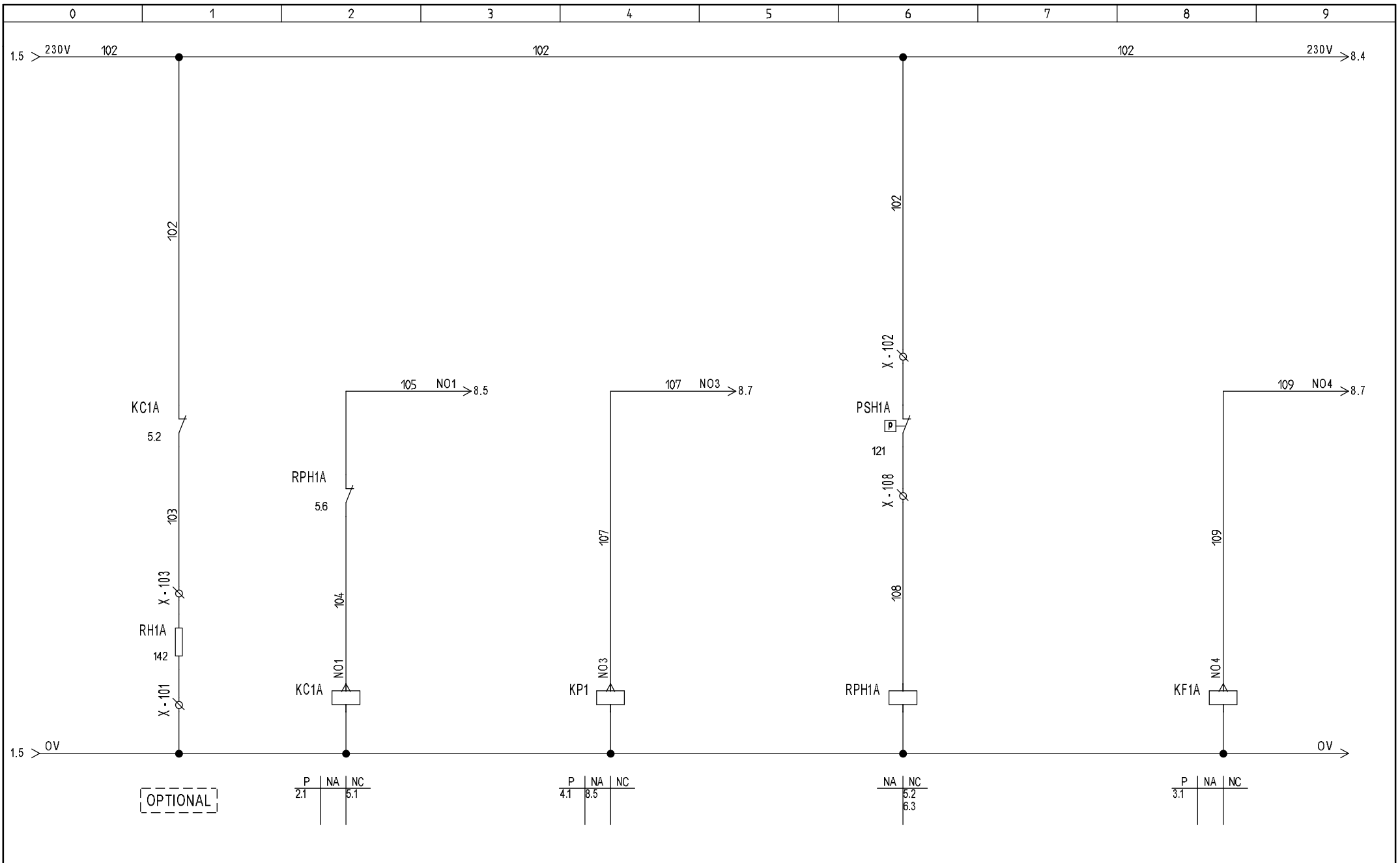
REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	LINEA POTENZA COMPRESSORI / COMPRESSOR POWER SUPPLY	SHEET 2
11/01/2020	Drafter CT Approved AC	Drawing no.: 85505150/001	File name: 85505150-001-A DRAFT.: CT	SECTION 03
			DATE: 11/01/2020	



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	LINEA POTENZA VENTILATORI / FAN POWER SUPPLY	SHEET 3
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505150/001	SECTION 04
			File name: 85505150-001-A	
			DRAFT.: CT	DATE: 11/01/2020



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	LINEA POTENZA POMPA / PUMP POWER SUPPLY	SHEET 4
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505150/001	SECTION 05
			File name: 85505150-001-A	
			DRAFT.: CT	DATE: 11/01/2020



OPTIONAL

REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	SERVIZI AUSILIARI / AUXILIARY SERVICES	SHEET 5
11/01/2020	Drafter CT	Approved AC	Drawing no.: 85505150/001	SECTION 06
			File name: 85505150-001-A	DATE: 11/01/2020
			DRAFT.: CT	

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

MICROCHILLER 2
Second Edition

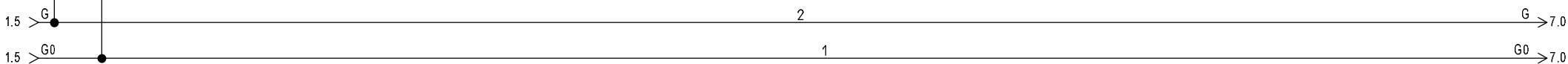
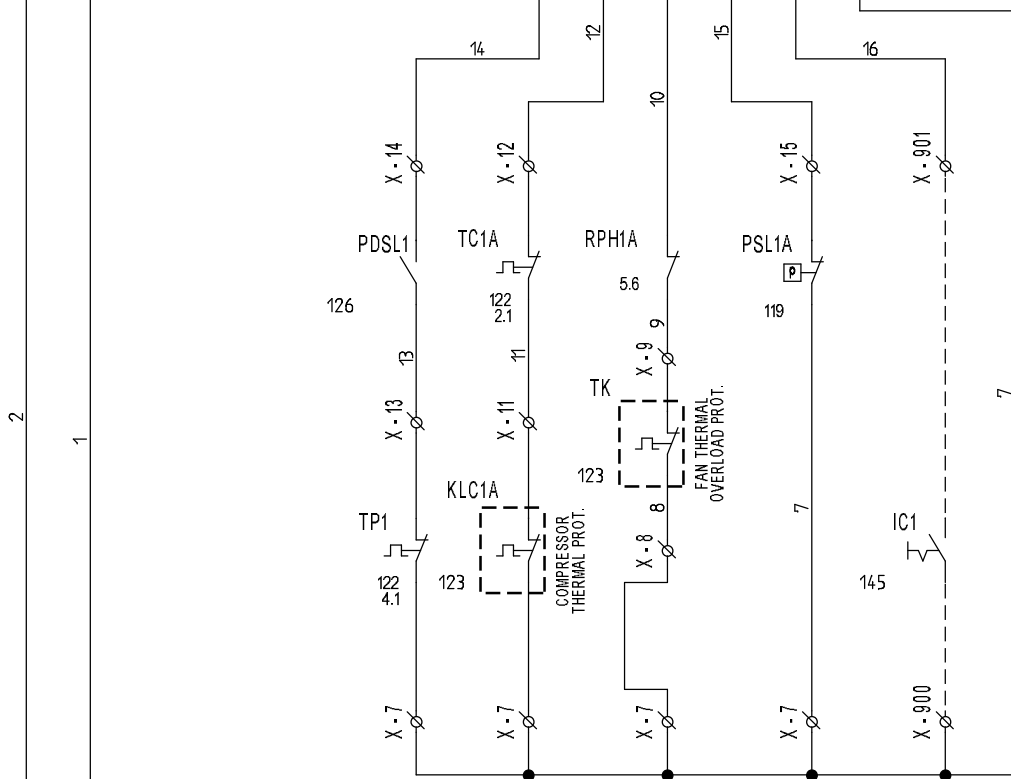
NO1	C1/2	C1/2	C3/4	X	C5
NO2	NO3	NO4	C3/4	X	NO5

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
---	----	----	----	----	-----	---	-----	-----	-----	-----	-----	-----	-----	----	----	-----	------	-----	------	-----	------	-----	------	-----	---	---	----	-----	-------	-----



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

Model: EKE-IPE/ST/AS 101

Drawing no.: 85505150/001

INGRESSI DIGITALI MICROPROCESSORE / MICROPROCESSOR DIGITAL INPUT

File name: 85505150-001-A

DRAFT: CT

DATE: 11/01/2020

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OF 13
SECTION 07

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

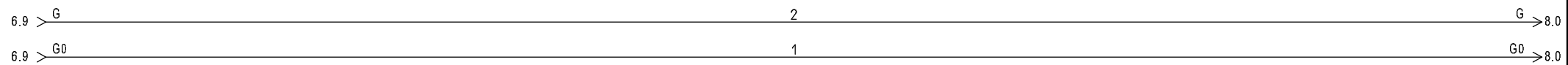
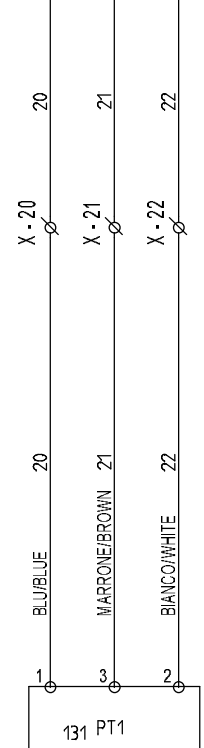
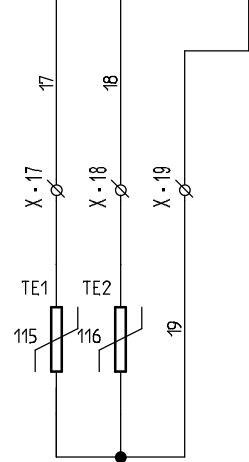
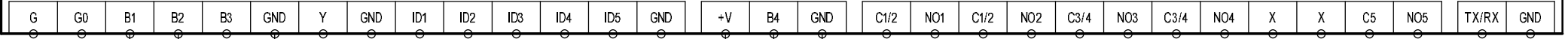
MICROCHILLER 2
Second Edition

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 101	INGRESSI ANALOGICI MICROPROCESSORE / MICROPROCESSOR ANALOGUE INPUT	SHEET 7
11/01/2020	Drafter CT	Drawing no.: 85505150/001	File name: 85505150-001-A	OF 13
	Approved AC		DRAFT: CT	SECTION 08
			DATE: 11/01/2020	

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

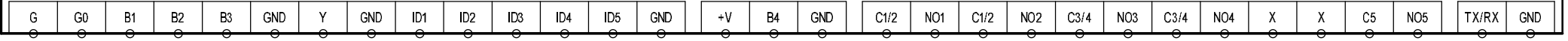
MICROCHILLER 2
Second Edition

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

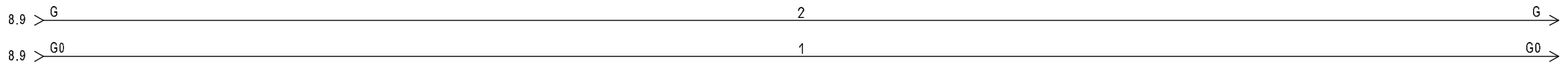
INPUT CONNECTOR

OUTPUT CONNECTOR

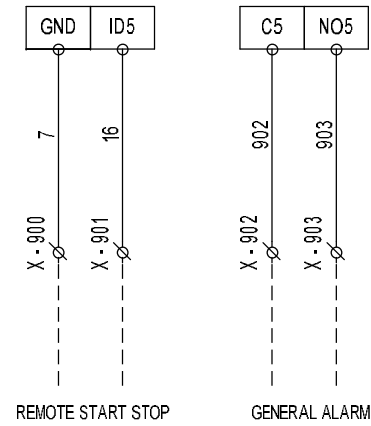
RS485



INTENTIONALLY BLANK



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	USCITE ANALOGICHE MICROPROCESSORE / MICROPROCESSOR ANALOGUE OUTPUT	SHEET 9
11/01/2020	Drafter CT	Approved AC	File name: 85505150-001-A	OF 13
Drawing no.: 85505150/001		DRAFT.: CT	DATE: 11/01/2020	SECTION 10

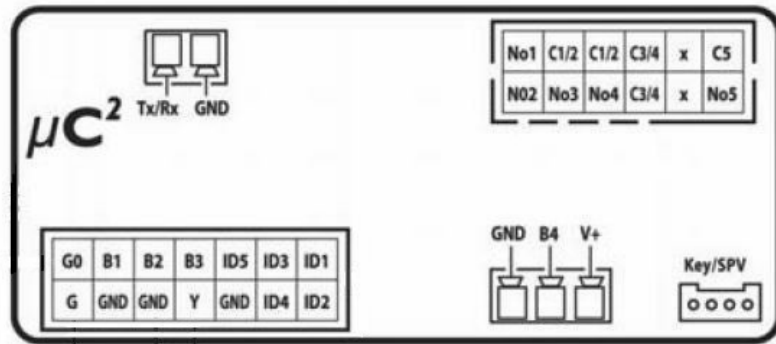
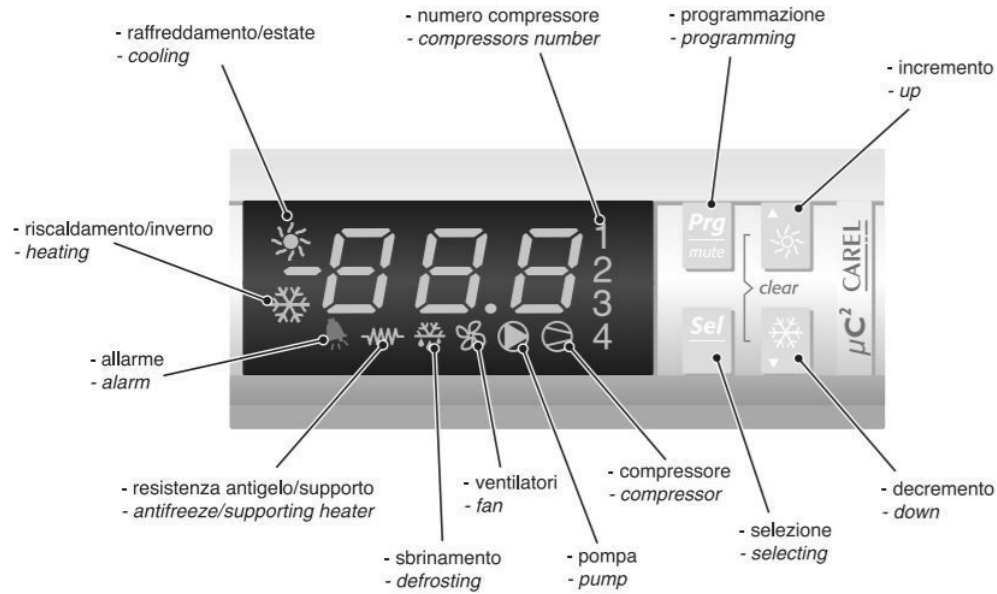


REV A	Modification FIRST ISSUE
11/01/2020	Drafter CT Approved AC

Model: EKE-IPE/ST/AS 101
 Drawing no.: 85505150/001

CONNESSIONI CLIENTE / USER CONNECTION	
File name:	85505150-001-A
DRAFT.:	CT DATE: 11/01/2020

SHEET	10
OF	13
SECTION	12



REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	TOPOGRAFICO SCHEDA MICROPROCESSORE / MICROPROCESSOR LAYOUT	SHEET 11
11/01/2020	Drafter CT	Approved AC	File name: 85505150-001-A	OF 13
		Drawing no.: 85505150/001	DRAFT.: CT	DATE: 11/01/2020
				SECTION 13

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-SCP360H38B	400V/3Ph/50Hz	10.90	19	102	-	AF26 30 00 13	PMX10-3-25A-AM	TF42 - 20	4 - mmq	FG16 - 4G2,25
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
VENTILATORI COND./CONDENSER FANS/LÜFTER VERFLÜSSIGER											
MF1A	A6D710AQ0101-106AS0650	400V/3Ph/50Hz	0.84	1.74	-	-	B6 30 10 84	PMX10-3- 2A-AM	-	1,5 - mmq	FG16 - 4G1,5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
POMPA/PUMP/PUMPE/POMPE											
MP1	CDXH/I 200/20 C/C/VITON	400V/3Ph/50Hz	1.5	4.1	-	-	AF12 30 10 13	PMX10-3- 6A-AM	TF42 - 4,2	1,5 - mmq	FG16 - 4G1,5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

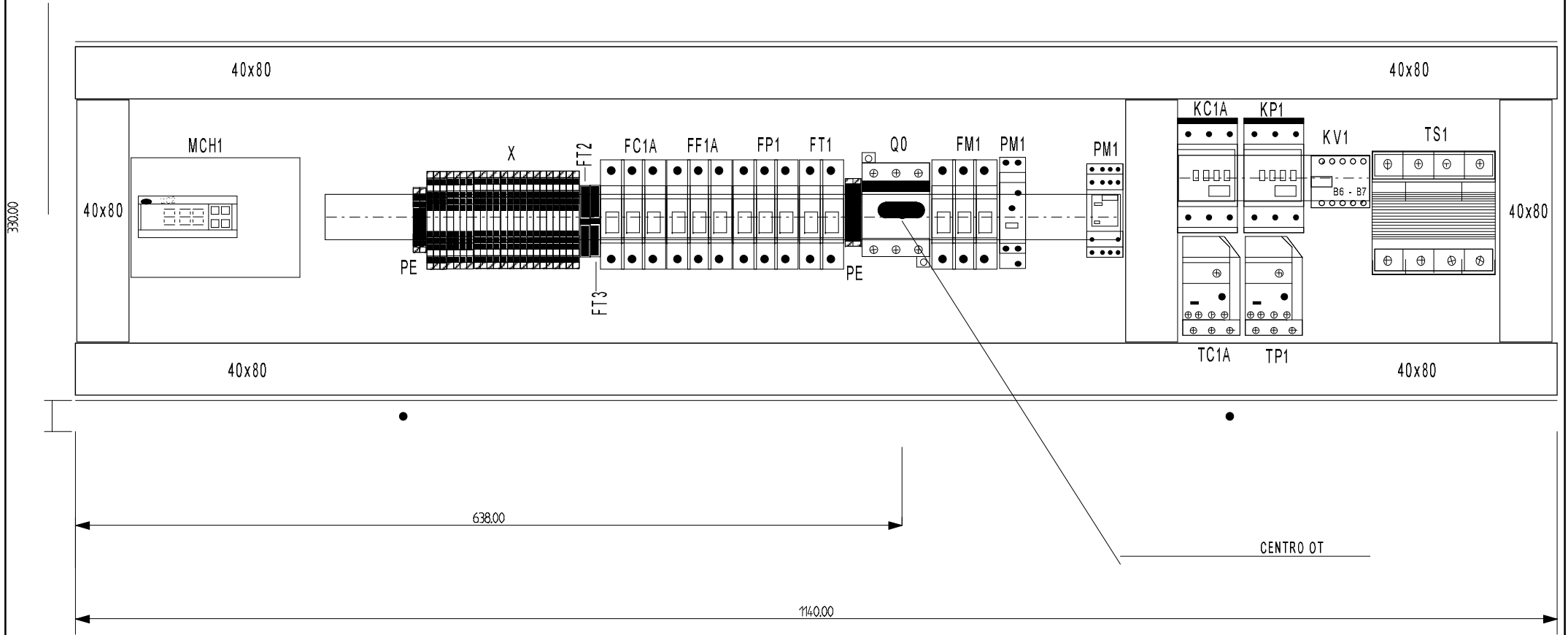
ITEM	DESCRIPTION	MODEL
Q0	SEZIONATORE GENERALE / MAIN SWITCH / ... / ...	- OT 63 F3 ABB
FT1	FUSIBILE TRASFORMATORE / TRANSFORMER FUSES	- PMX 12-2 + FUSIBILE 10x38 2A - AM WIMEX
TS1	TRASFORMATORE SERVIZI AUSILIARI / AUX. SERVICES TRANSFORMER / ... / ...	- 150 VA 1TC 150 - 043 - 1 ESME
FT2	FUSIBILE TRASFORMATORE / TRANSFORMER FUSES	- SF 900 GR + FUSIBILE 5x20 2A - AM CABUR
FT3	FUSIBILE TRASFORMATORE / TRANSFORMER FUSES	- SF 900 GR + FUSIBILE 5x20 2A - AM CABUR
FM1	FUSIBILE RELE' SEQUENZA FASI / SEQUENCE PHASE RELAY FUSES	- PMX 10-3 + FUSIBILE 10x38 1A - F WIMEX
PM1	RELE' SEQUENZA FASI / SEQUENCE PHASE RELAY	- 70.61.8.400.0000 FINDER
RPH1A	RELE' / RELAY / / ...	- 55.34.8.230.0040 + 98.84.2 FINDER
CT1A	CONVERTITORE SEGNALE / SIGNAL CONVERTER	

REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101 Drawing no.: 85505150/001	TOPOGRAFICO QUADRO ELETTRICO / ELECTRIC SWITCHBOARD LAYOUT	SHEET 12
11/01/2020	Drafter CT		File name: 85505150-001-A	OF 13
	Approved AC	DRAFT.: CT	DATE: 11/01/2020	SECTION 15

0	1	2	3	4	5	6	7	8	9
	SEZIONATORE GENERALE MAIN SWITCH D F		PRESSOSTATO PRESSURE SWITCH D F	MC1A	MOTORE COMPRESSORE CIRCUITO 1 CIRCUIT 1 COMPRESSOR MOTOR D F			I E D F	
	FUSIBILI FUSES D F		SELETTORE 0-1 0-1 SELECTOR D F	MV1A	MOTORE VENTILATORE CIRCUITO 1 CIRCUIT 1 FAN MOTOR D F			I E D F	
	CONTATTORE CONTACTOR D F		TRASFORMATORE SERVIZI AUS. AUX TRANSFORMER D F	MP1	MOTORE POMPA; 1-2(USER)/3(RECIRC.) PUMP MOTOR;1-2(USER)/3 (RECIRC.) D F			I E D F	
	MOTORE TRIFASE 3 PHASE MOTOR D F		SONDA TEMPERATURA NTC NTC TEMPERATURE PROBE D F		SONDA TEMPERATURA NTC NTC TEMPERATURE PROBE D F			I E D F	
	INTERRUTTORE MAGNETOTERMICO CIRCUIT BREAKER D F		PRESSOSTATO DIFFERENZIALE DIFFERENTIAL PRESSURE SWITCH D F		PRESSOSTATO DIFFERENZIALE DIFFERENTIAL PRESSURE SWITCH D F			I E D F	
	RELE' SEQUENZA FASE SEQUENCE PHASE RELAY D F		RELE' AUSILIARIO INTERRUTTORE CIRCUIT BREAKER AUXILIARY RELAY D F		RELE' SEQUENZA FASE SEQUENCE PHASE RELAY D F			I E D F	
	KLIXON VENTILATORE KLIXON FAN MOTOR THERMAL SWITCH D F		RESISTENZA RESISTANCE D F		RESISTENZA RESISTANCE D F			I E D F	
	RELE' TERMICO / THERMAL RELAY RELE' TERMICO / THERMAL RELAY D F		CONTATTORE, RELE' AUSILIARIO CONTACTOR, AUX RELAY D F		CONTATTORE, RELE' AUSILIARIO CONTACTOR, AUX RELAY D F			I E D F	
	TRASDUTTORE DI PRESSIONE PRESSURE TRANSDUCER D F		VALVOLA A SOLENOIDE SOLENOID VALVE D F		VALVOLA A SOLENOIDE SOLENOID VALVE D F			I E D F	

REV A	Modification FIRST ISSUE	Model: EKE-IPE/ST/AS 101	TOPOGRAFICO QUADRO ELETTRICO / ELECTRIC SWITCHBOARD LAYOUT	SHEET 13
11/01/2020	Drafter CT	Approved AC	File name: 85505150-001-A	OF 13
		Drawing no.: 85505150/001	DRAFT: CT	DATE: 11/01/2020
				SECTION 16

0 1 2 3 4 5 6 7 8 9



REV A	Modification Emissione	Model: EKE-IPE/ST/AS 101	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.	SHEET OF	1 1
	Drafter CT	Approved AC			Drawing no.: 85505150-001
			DRAFT.: CT	◀ ▶	

Morsettieria grafica

Morsettieria:
X

Descrizione		Tipo cavo		Nome cavo		----- Cavo -----		Colonna	Foglio
REVISIONE	MODIFICA					PROGETTO: 85505150-001-A		FOGLIO	2
DATA	FIRMA					COMMESSA: EKE-IPE/ST/AS 101		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					
SPIE1:1/L	⊕	2							
SPIE2:1/L	⊕	2	2	6K2:1					
	⊕	2	2	301:1					
	⊕	2	2	8MCH1:C1/2					
	⊕	2	2	8MCH1:C1/2					
	⊕	2	2	8MCH1:C3/4					
	⊕	2	2	8MCH1:C3/4					
	⊕	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							
2Q2:1	⊕	8	8	8MCH1:ID2					
	⊕	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							

