NUOVAIR
INNOVATION FOR REFRIGERATION

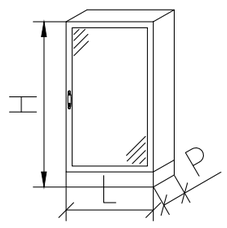
NUOVAIR SRL
Via Padania, 9/C – 31020 San Vendemiano – Treviso – Italy
Tel. 0438/489097 – info@lanuovagel.com

CE

JOB NUMBER/SERIES	PART NUMBER	REFERENCE
A0001247	–	

QUADRO ELETTRICO
ABBATTITORE C10.1/C15.1

ELECTRICAL SPECIFICATIONS		CARPENTRY	
Voltage power circuit (V)	400 a.c.	Cabinet	
		Height	
Auxiliary power circuit (V)		Width	
		Depth	
Frequency(Hz)	50	Grade IP	
Distribution system	TT	Form	
	3F+N+T	Material	
Normal Current (A)		Door	
Max Current (A)	16		
Icn Current (KA) CEI EN 60898-1			
Icu Current (KA) CEI EN 60947-2 ☐Backup			



REVISION

REV.	MODIFICATIONS :	DATE	SIGN.
D			
C			
B			

NOTES

SIGLA COMPONENTI COMUNI

ES. 7QU1

- NUMERO PAGINA INSERIMENTO
- TIPO DI COMPONENTI COMUNI ES.:
  - QF - INTERRUTTORE AUTOMATICO
  - QS - SEZIONATORE
  - QU - SEZ. PORTA FUSIBILE
  - FU - PORTA FUSIBILE
  - KM - RELE' DI POTENZA
  - KA - RELE' AUSILIARIO
- PROGRESSIVO DI PAGINA

SIGLA FILO

ES. 7-1X

- NUMERO PAGINA INSERIMENTO
- PROGRESSIVO DI PAGINA
- OPZ. RIFERIMENTO DI FASE

SIGLA RINVIO

ES. 7-1 → 9.6

- NUMERO FILO
- PAGINA DI RINVIO
- COLONNA SU PAGINA DI RINVIO

COLORI CONDUTTORI

Tratto dalla norma europea EN 60204-1

CONDUTTORE DI PROTEZIONE

GIALLO–VERDE

CIRCUITI DI POTENZA in AC e DC

FASE – NERO NEUTRO – BLU CHIARO

CIRCUITI AUSILIARI in AC con trasf. disacoppiatore ≤250V

ROSSO

CIRCUITI AUSILIARI in AC senza trasf. disacoppiatore

FASE – NERO NEUTRO – BLU CHIARO

CIRCUITI AUSILIARI in DC

BLU

CIRCUITI ALIMENTATI DA FONTE ESTERNA AL QUADRO

ARANCIONE

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DATE	17/01/2022
DESIGNER	MASO
CHECKED	
APPROVED	

Q.E. ABBATTITORE
C10.1/ C15.1 400V 3PH+N+PE 50/60Hz
SPECIFICHE COSTRUTTIVE
Konstruktions spezifikationen / Construction specification

MAT :
COM : A0001247
FILE : A0001247.DWG

FG. 2
F.S. 3

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione Revision								
		1	2	3	4	5	6	7	8	9
1	COPERTINA \ Cover									
2	SPECIFICHE COSTRUTTIVE \ Construction specification									
3	INDICE \ Index									
4	LEGENDA SIMBOLI \ Symbollegende \ Symbol legend									
9	LAYOUT									
10	CIRCUITO DI POTENZA \ Stromkreis \ Power circuit									
12	CIRCUITO DI POTENZA \ Stromkreis \ Power circuit									
13	CIRCUITO DI POTENZA \ Stromkreis \ Power circuit									
15	CIRCUITO DI POTENZA \ Stromkreis \ Power circuit									
16	Morsettiera \ Klemmleiste \ Terminal blocks									
20	Distinta Materiali \ Stückliste \ Part list									

Foglio Sheet	Descrizione Description	Revisione Revision								
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C10.1/ C15.1 400V 3PH+N+PE 50/60Hz

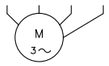
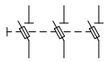
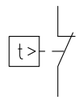
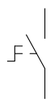
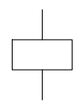
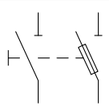
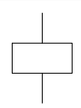
INDICE
INDEX

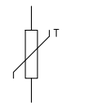
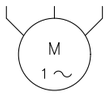
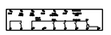
MAT :

COM : A0001247

FILE : A0001247.DWG

FG. 3
F.S. 4

Simbolo	File	Descrizione Description
	C1_N	*Capacitor* Condensatore *Kondensator*
	E4_N	*Heating Element* Elemento riscaldante *Heizelement*
	M2_N	*Three-phase asynchronous motor* Motore asincrono trifase *Drehstrom-asynchronmotor*
	Q83_N	*Triple-pole switch disconnector with fuses* Sezionatore tripolare con fusibili *3-polige Lasttrennschalter mit Sicherungen*
	S08C_N	*Controlled by the pressure switch (NC)* Comandato dalla pressione (pressostato) NC *Durch den Druck gesteuert (Druckschalter) NC*
	S10_N	*Limit switch NO* Fine corsa NO *Endlagenschalter NO*
	S18C_N	*Controlled by temperature (thermostat) NC* Comandato dalla temperatura (termostato) NC *Durch die Temperatur gesteuert (Thermostat) NC*
	S25_N	*Switch NO without automatic return* Commutatore NO senza ritorno automatico *Schalter keine ohne automatische Rückkehr*
	KM1_N	*Contactor coil* Bobina contattore *Schützspule*
	BLK41	*Bipolar switch disconnector with fuses* Sezionatore bipolare con fusibili *Bipolarer Lasttrennschalter mit Sicherungen*
	BLK101	*Coil power relay* Bobina relè di potenza *Spule des Relais*

Simbolo	File	Descrizione Description
	BLK121	*Temperature Probe* Sonda Temperatura *Temperaturfühler*
	BLK147	*Three-phase asynchronous motor* Motore asincrono trifase *Drehstrom-asynchronmotor*
	BLK168	
	EVJ800	*Control unit* CENTRALINA *Steuereinheit*

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APPROVED	

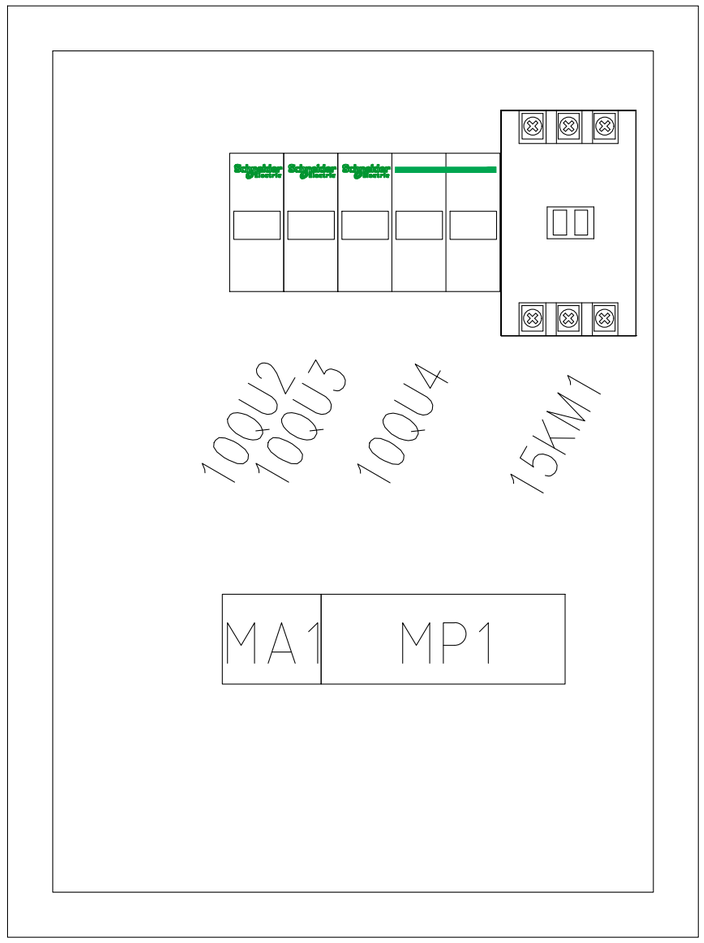
Q.E. ABBATTITORE
C10.1/ C15.1 400V 3PH+N+PE 50/60Hz
LEGENDA SIMBOLI
Symbollegende \ Symbol legend

MAT :
COM : A0001247
FILE : A0001247.DWG

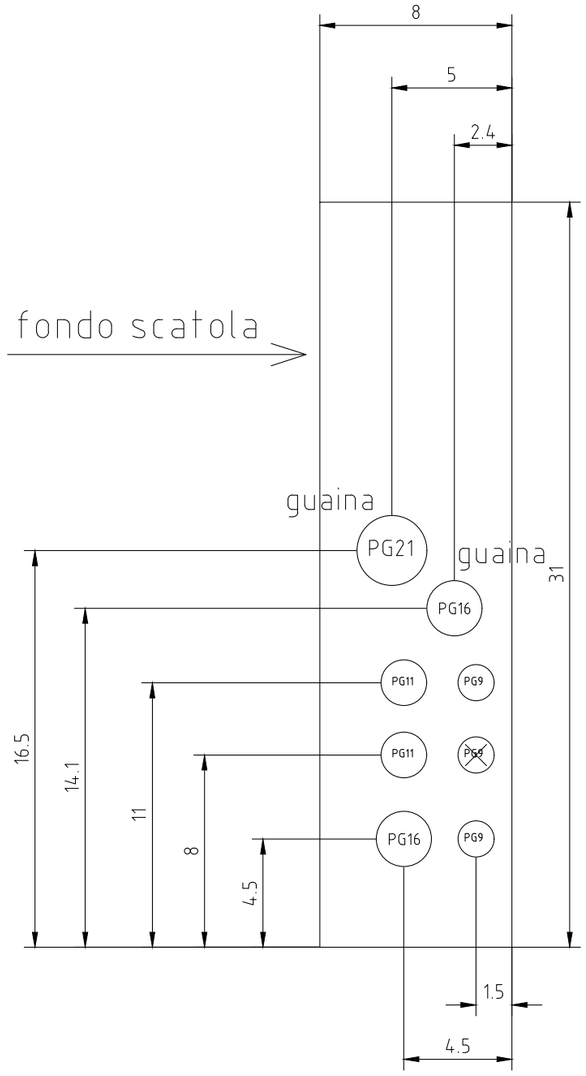
FG. 4
F.S. 9

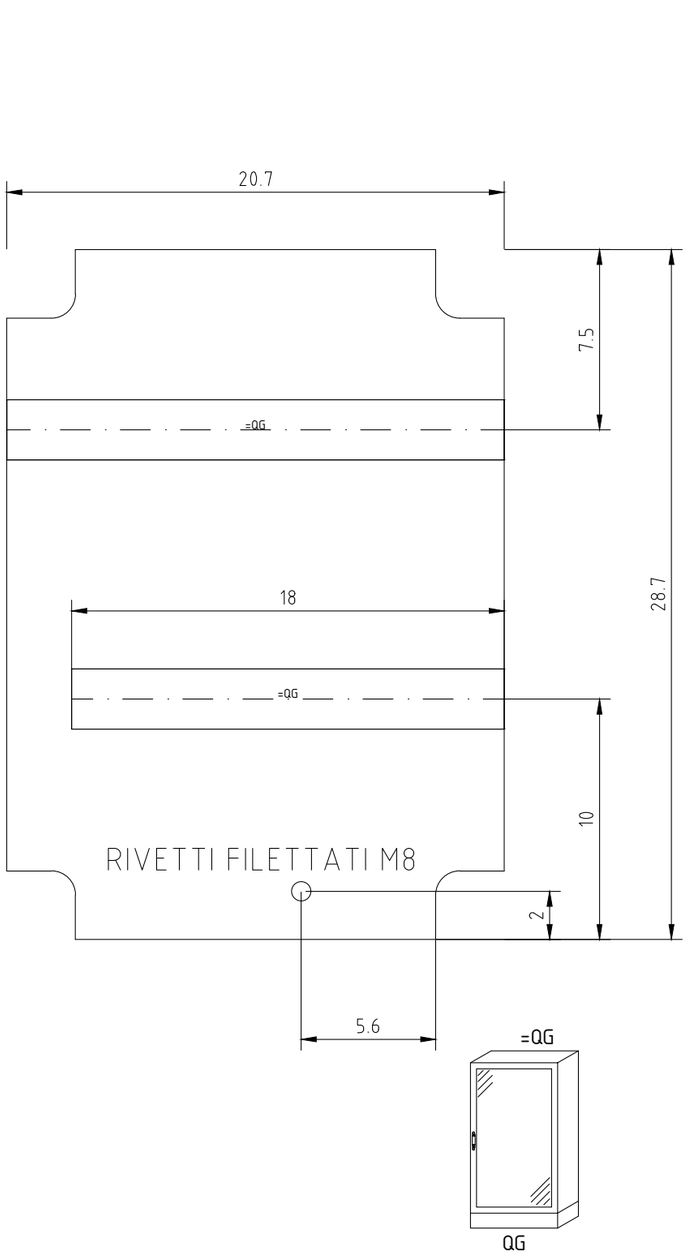
fondo scatola

guaina
PG21
guaina
PG16
PG11
PG9
PG11
PG9
PG16
PG9



fondo scatola





GW44209; GW44617
SCATOLA PLASTICA 31X23;PIASTRA INTERNA

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C10.1/ C15.1 400V 3PH+N+PE 50/60Hz
LAYOUT

MAT :
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FG. 9
F.S. 10

=CAMPO
10V1
ARRIVO
LINEA

Prevedere cavo
FROR 5G2.5 5mt
Fuori scatola

=QG MP1 L3
=QG MP1 L2
=QG MP1 10-6
=QG MP1 10-6
=QG MP1 PE

=QG
10QU2
10 gL
Schneider E.
A9N15646

=QG
10QU3
10 gL
Schneider E.
A9N15646

=QG
10QU4
16 aM
A9N15656
Schneider E.

PROTEZIONE COMPRESSORE
COMPRESSOR
PROTECTION
KOMPRESSOR-SCHUTZ

10-5L1
10-5L2
10-5L3

15KM1
15.1

10-6L1
10-6L2
10-6L3

10-3N → 12.0
10-3L → 12.0
10-4N → 13.0
10-4L

PE → 12.0

=AB
10M1
9.5A
U V W PE
M
3~

COMP.AUTOPROTETTO
SELF-PROTECTED COMP.
EIGENSCHUTZ KOMP.

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CIRCUITO DI POTENZA
Stromkreis \ Power circuit

MAT :
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FG. 10
F.S. 12

10.5 10-3L

10.4 10-3N

15KM1

15.1
COMPRESSORE / COMPRESSOR
KOMPRESSOR

=QG MP1 12-1L

=QG MP1 10-3N

12-1L

10.9 PE =QG MP1 PE =QG MP1 PE

PRES.CONTROLLO
VENT.COND.REMOTO

COND.FAN
CONTROL PRESS.SW
REMOTE UNIT

KOND.LÜFTER
KONTROLLE DRUCKSC.

=AB 12S1

P

1 4

=QG MP1 12-2L

=AB
12C1

=AB
12M1

MARRONE NERO BLU

M
1 ~

0.58/0.83 A 50/60Hz
VENT.COND.
COND.FAN
KOND.LÜFTER

COLLEGAMENTO GRUPPO COND.
COND.GROUP CONNECTION
KOND.GRUPPENANSCHLUSS

=AB
12YV1

A1 A2

ELETTROVALVOLA
SOLENOID VALVE
MAGNETVENTIL

10-3L /./

10-3N /./

15KM1

15.1
COMPRESSORE / COMPRESSOR
KOMPRESSOR

=QG MP1 12-3L

12-3L

PE 13.0

=AB
12MS1

A1 A2 PE

M
1 ~

VENT. RAFF.
TESTA

CONDENSAZIONE ACQUA
WATER COOL

=AB
12EH1

100W

RESISTENZE CARTER
CARTER RESISTANCES
C. WINDERSTAND

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CIRCUITO DI POTENZA
Stromkreis \ Power circuit

MAT :

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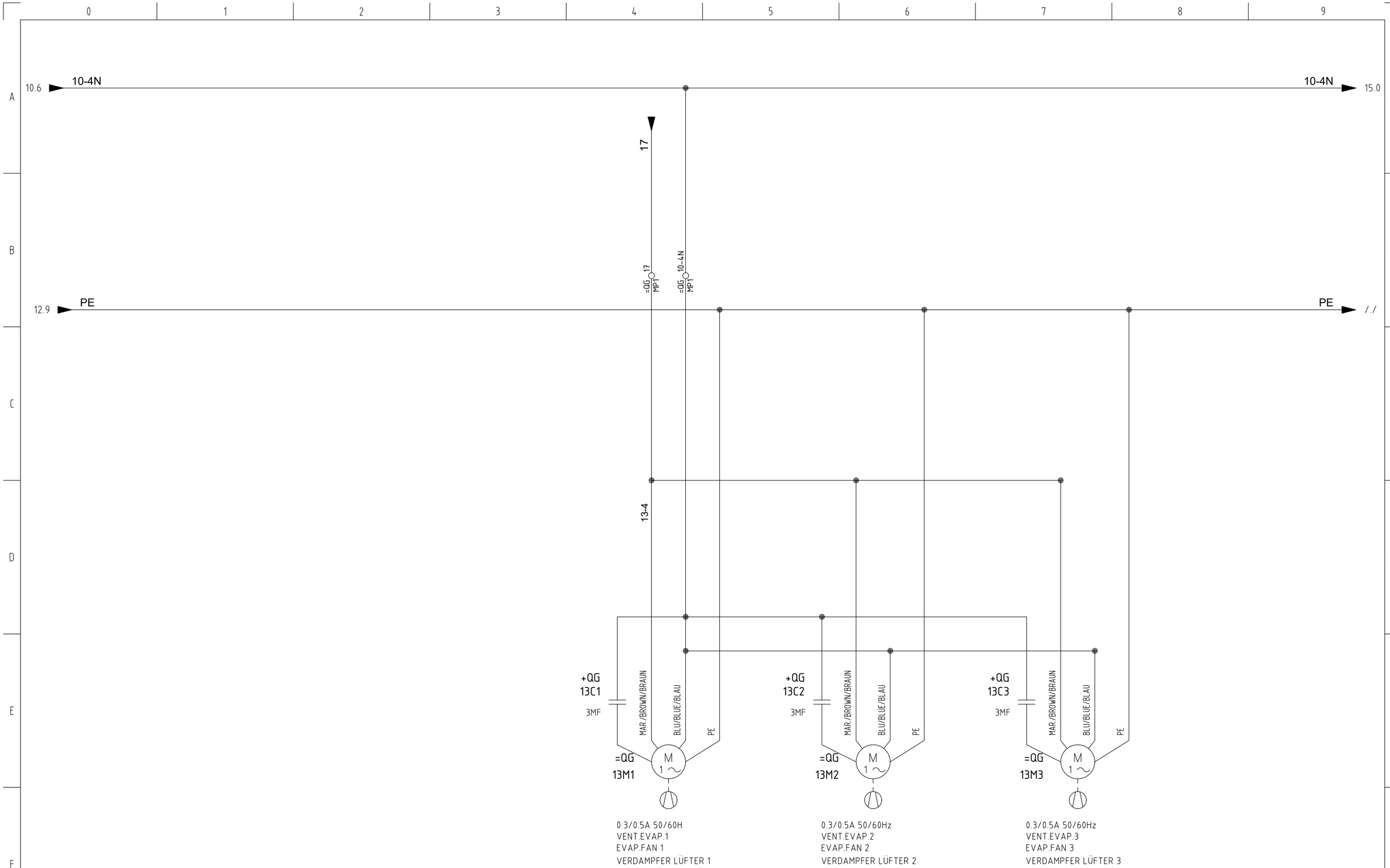
FG. 12
F.S. 13



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CIRCUITO DI POTENZA
Stromkreis \ Power circuit

MAT :
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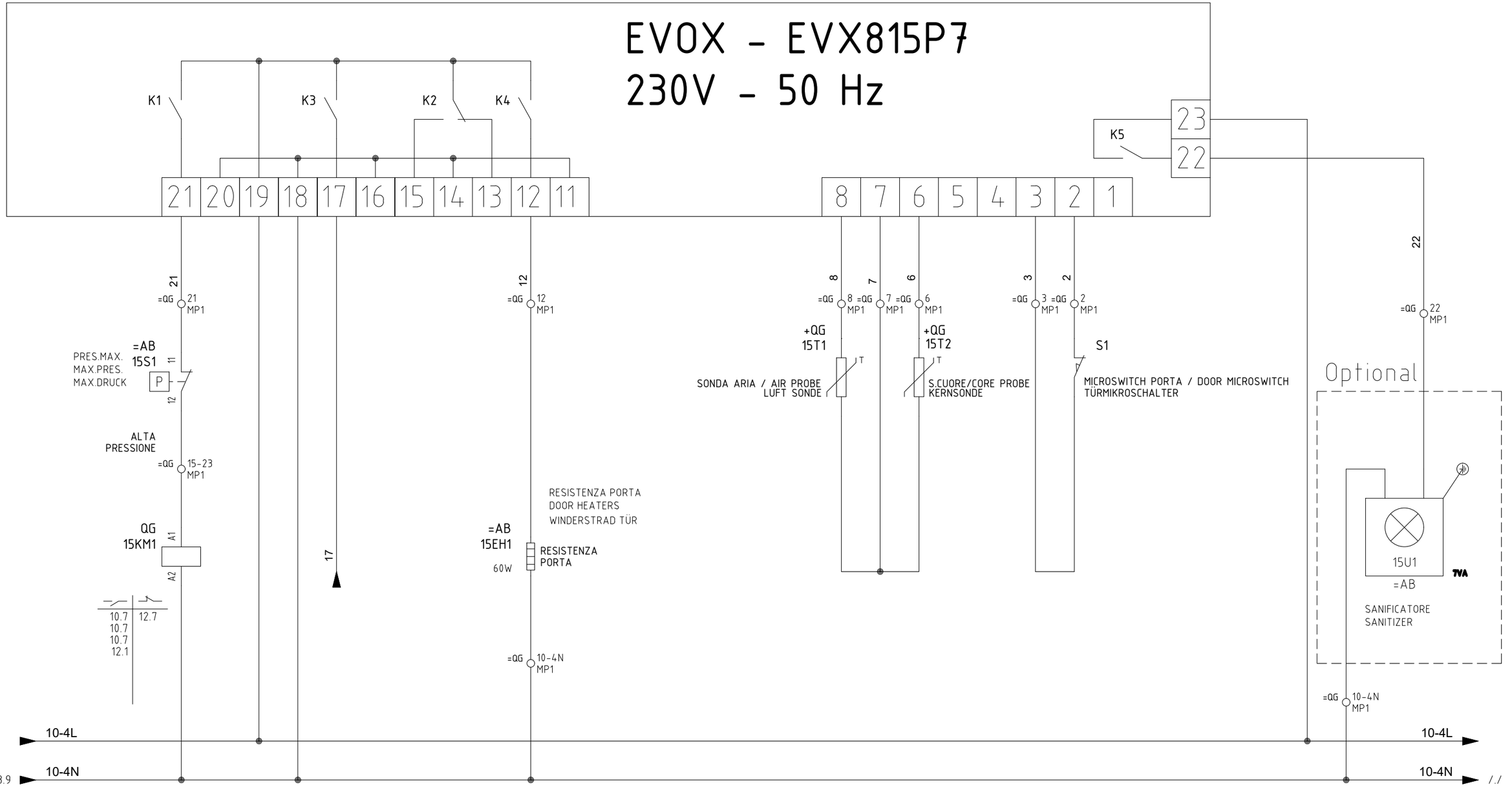
FG. 13
F.S. 15

EVOX - EVX815P7
230V - 50 Hz



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	DESIGNER	MASO	
	CHECKED		CIRCUITO DI POTENZA *Stromkreis \ Power circuit*
	APPROVED		

MAT :
COM : A0001247
FILE : A0001247.DWG
FG. 15
F.S. 16

=QG - MA1

SONDE / PROBE / SONDEN

8	=AB – 8 – AIR PROBE
7	=AB – 7 – AIR PROBE / COPRE PROBE
6	=AB – 6 – CORE PROBE

=QG - MP1

MORSETTIERA DI POTENZA / TERMINAL BLOCKS / KLEMMLEISTE

PE	
PE	
PE	=CAMPO – 10V1 – ARRIVO – LINEA
N	=CAMPO – 10V1 – ARRIVO – LINEA
L1	=CAMPO – 10V1 – ARRIVO – LINEA
L2	=CAMPO – 10V1 – ARRIVO – LINEA
L3	=CAMPO – 10V1 – ARRIVO – LINEA
12-1L	=AB – 12S1 – COND.FAN CONTROL PRESS.SW
12-2L	=AB – 12M1 – COND.FAN
12-3L	=AB – 12EH1 – CARTER RESISTANCE
10-3N	=AB – 12YV1 – SOLENOID VALVE
10-3N	=AB – 12M1 – COND. FAN
10-4N	=AB – 13M1 – EVAP.FAN
10-4N	=AB – 13U1 – SANITIZER
10-4N	=AB – 15EH1 – DOOR HEATER
12	=AB – 15EH1 – DOOR HEATER.
17	=AB – 13M2 – EVAP.FAN
21	=AB – 15S1 – MIN.PRES.
22	=AB – 15U1 – SANITIZER
15-23	=AB – 15S1 – MAX.PRES.

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Morsettiera
Klemmleiste \ Terminal blocks

MAT :
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FG. 16
F.S. 17

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Marke	Quadro/Board	Fg/Sh	Q.ta/Q.ty
10KM1	LC1DT32M7	CONT 32A 4P AC1 220/230V	Schneider E.	=QG	10	1
10QU1	A9N15646	Base portaf. STI 1P+N 10.3x38 500Vca	Schneider E.	=QG	10	1
10QU2	A9N15646	Base portaf. STI 1P+N 10.3x38 500Vca	Schneider E.	=QG	10	1
10QU3	A9N15646	Base portaf. STI 1P+N 10.3x38 500Vca	Schneider E.	=QG	10	1
10QU4	A9N15656	Base portaf. STI 3P 10.3x38 500Vca	Schneider E.	=QG	10	1
15KA2	653182300300	Relè industriale 30A	Finder	=QG	15	1
13S1		Comandato dalla temperatura (termostato) NC		=QG	13	1
15CENT1	EVJ805	CENTRALINA	EVCO	=QG	15	1
15KM1	LC1D12M7	CONTATTORE 12A 220VAC 50/	Schneider E.	=QG	15	1
QG	GW44209	SCATOLA PLASTICA 31X23		=QG	9	1
	GW44617	PIASTRA INTERNA				1

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Distinta Materiali
Stückliste \ Part list

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FG. 17
F.S. /