Commessa

080Z3226-080Z3227

Document No.: 080C0454

PROGETTAZIONE		TENSIONE ESERCIZIO 400 Vac	NORME CEI 44-6 / PROTEZIONE
SERIE		TENSIONE COMANDI 230 Vac	+ =
COMMESSA	080Z3226-080Z3227	TENSIONE SEGNALI 230 Vac	
COMMITTENTE	STANDARD PANEL		080Z3226-080Z3227
PROGETTTATO CON SISTEMA CAD/CAE	Ver. 7.00		

DATA	DATE	FIRME
DIS.	18/07/2019	
APPROV.	18/07/2019	
APPROV.	18/07/2019	

REV.	DESCRIZIONE REVISIONE	DATE	DISEGNATORE

SOST. DA:

SOST. IL:

ORIGINE

STANDARD PANEL

FOGLIO 0

T.F. 9

PROJECT:
FILE NAME: 5DA300ExpertVD7-1.sch
TYPE:

main switch

400Vac + N ±10%
50/60Hz

R
S
T
N
PE

QF1
25A "D"

L1 /02.1A
L2 /02.1A
L3 /02.1B
N1 /02.1B

QM1
S0
I> I> I>

QM1
4.2 95 96
3.6 97 98

L4 L5 L6

!!! WARNING !!!!
SUM OF INSTALLED LOADS ABSORPTIONS HAVE NOT TO EXCEED MAIN SWITCH 25A.

KM1
4.5
3RT2016-1AP01
Siemens

U1 V1 W1
X2.101 X2.102 X2.103 X2.104
EV1
M 3~

evaporator fans

MAXIMUM PERMISSIBLE LOAD
I Max 3.6A

KM2
4.4
3RT2024-1AL20
Siemens

U2 V2 W2
X2.109 X2.110 X2.111 X2.112
EH1

defrost heaters

MAXIMUM PERMISSIBLE LOAD
9 kW (AC1)
Balanced resistive load

KM3
4.6
3RT2026-1AL20
Siemens

U3 V3 W3
X2.113 X2.114 X2.115
M1
M 3~

compressor

MAXIMUM PERMISSIBLE LOAD
Code 080Z3206: I Max 16A
Code 080Z3207: I Max 20A

SIEMENS COMPONENT			
WIRE DIAGRAM ITEM	ELECTRICAL PANEL	Art. Siemens	CURRENT RANGE
QM1	080Z3226	3RV2021-4AA10	11-16A
	080Z3227	3RV2021-4BA10	14-20A

DATE	18/07/2019		
COMMISS.	Alessandro		
CHECKED BY			
APPROV.		SUBST.:	SUB. FOR:

Danfoss

OPTYMA™ Control, three-phase (7HP)

= 080Z3226-080Z3227
+
SHEET 1
N.S. 2 | T.F. 9

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

/01.8A
/01.8A
/01.8B
/01.8B

L1 //
L2 //
L3 //
N1 /04.1E

QF2
10A "D"

L10 /04.8C

KM3
4.6

X1.2
SP1
partialization
pressure
switch
condenser fan
X1.1

L7
L8

X2.105
X2.106
X2.108
X2.107

EV2 M 1AC
EV3 M 1AC

condenser
fans 1

condenser
fans 2

MAXIMUM PERMISSIBLE LOAD
(EV1+EV2) I Max 4,3A

KM3
4.6
L9
X1.4
EH2
X1.3

crankcase
resistor

MAXIMUM PERMISSIBLE LOAD
200 W (AC1)

Fuse 5X20
F 250mA
230/400Vac-230Vac
50 VA
FU1
TM1
5 230V /03.1A
6 0V /03.1E

transformer

DATE	18/07/2019		
COMMISS.	Alessandro		
CHECKED BY			
APPROV.		SUBST.:	SUB. FOR:

OPTYMA™ Control, three-phase (7HP)

= 080Z3226-080Z3227
+
SHEET 2
N.S. 3 T.F. 9

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

/02.8D 230V 5

230V /04.1E

COMU /04.1E

QM1
1.7

X1.12 X1.14 20

BT1 L KRIWAN 11
N 1 2 14 12

X1.11 X1.13

X1.15 21

SP2 P
X1.16
high low pressure switch

4

KA1

/02.8E 0V 6

0V /04.1E

KA1
4.7

MAXIMUM PERMISSIBLE LOAD
3VA

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COMMISS.	Alessandro		
CHECKED BY			
APPROV.		SUBST.:	SUB. FOR:

OPTYMA™ Control, three-phase (7HP)

= 080Z3226-080Z3227
+
SHEET 3
N.S. 4 T.F. 9

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

EC | SW DOOR | GND | GND | PRB AMB | PRB EV. | RS485-A | RS485-B | POWER SUPPLY | | DEFR. | common | FAN | COMPRESSOR | | ALL./AUX_1 | AUX_2 | | LIGHT |
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 20 | 21 | 18 | 19

TeleNET

aux 2

KA1
3.8

QM1
1.7

SQ1 door switch

B1 ambient probe

B2 defrost probe

X1.22 PD (A) X1.21 (B) X1.23 T

X1.21 C

X1.19 24

SP3 X1.20 pump-down pressure switch

X1.17

X1.18 evaporator fans klixon protection

KM3 4.6 — 22 — KM2

KM1 — 23

KM2 — 25 — KM3 — 26

X1.10 — YV1 — X1.9

X1.6 — X1.5 — HL1

L10 — /02.8C

L11

/03.8A COMU

/03.8A 230V

/03.8E 0V

/02.8B N — N1

KM2 13 14 1.6 / 4.6 21 22

KM1 13 14 1.4

KM3 2.2 13 14 1.7 / 2.5 21 22 / 4.4

liquid solenoid valve

cold room light

SELEZIONE FUNZIONAMENTO: functioning mode selection
PONTE (A): FUNZIONAMENTOCON PUMP-DOWN jump (A): pump-down mode selection
PONTE (B): FUNZIONAMENTO CON TERMOSTATO jump (B): thermostat mode selection

MAXIMUM PERMISSIBLE LOAD
10W

MAXIMUM PERMISSIBLE LOAD
800 W (AC1)

DATE	18/07/2019		
COMMISS.	Alessandro		
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APPROV.		SUBST.:	SUB. FOR:

Danfoss

OPTYMA™ Control, three-phase (7HP)

= 080Z3226-080Z3227
+
SHEET 4
N.S. 5 | T.F. 9

connectors summary

JB01

1	THERMAL BLOCK INPUT	1
2	DOOR SWITCH INPUT	2
3	INPUT-GND	3
4	COMMON-230V-SIC	4
5	COMMON 230V	5
6	COMMON 0V	6
7	DEFROST (OUTPUT)	7
8	FAN (OUTPUT)	8
9	COMPRESSOR (OUTPUT)	9
10	LIGHT (L10)	L10
11	LIGHT (OUTPUT)	L11
12		
13	COMUNE SONDE	13
14	SONDA AMBIENTE	14
15	SONDA SBRINAMENTO	15

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

DATE	20/09/2013		
COMMISS.	Davide		
CHECKED BY			
APPROV.		SUBST.:	SUB. FOR:

Danfoss

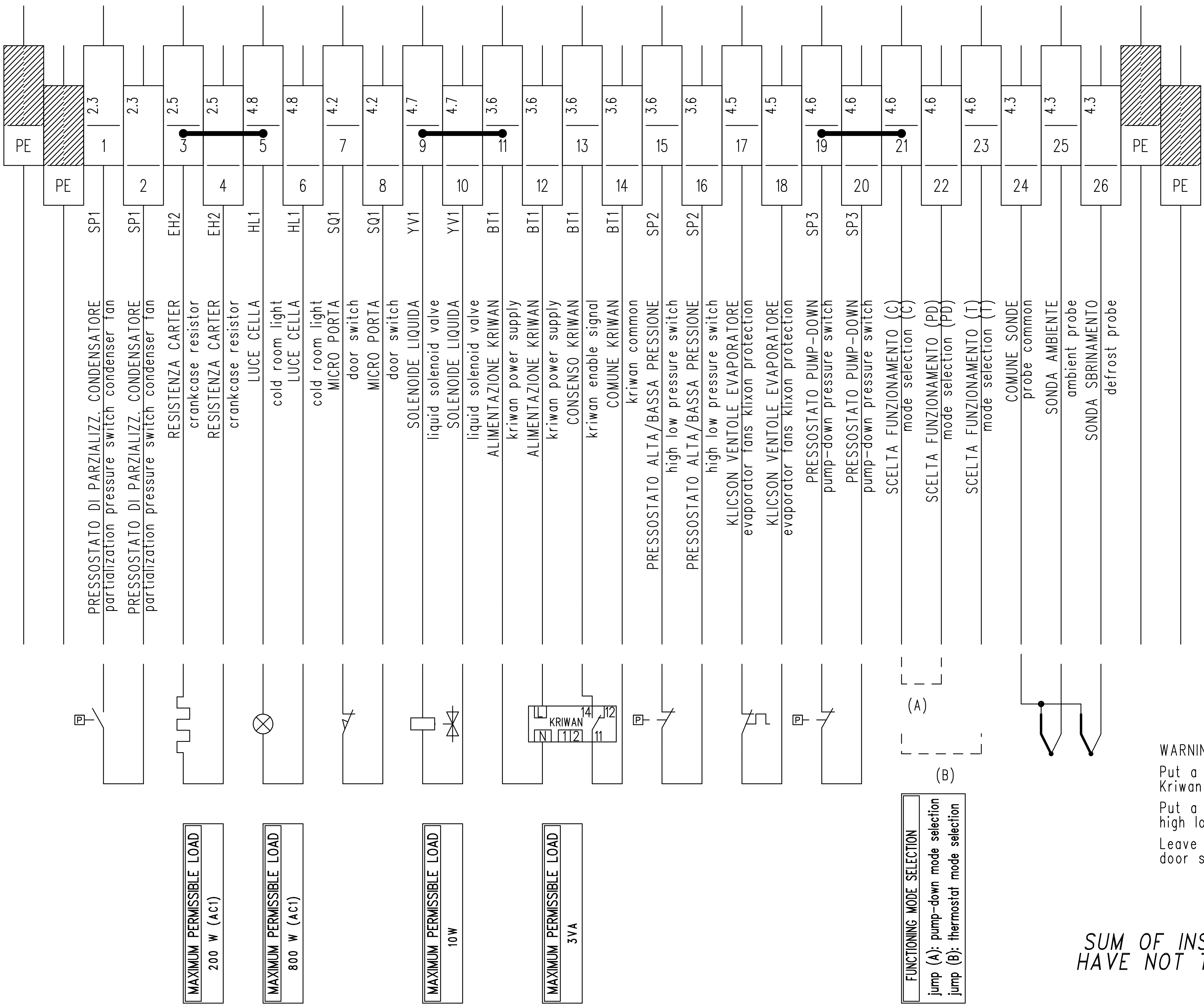
OPTYMA™ Control, three-phase (7HP)

= 080Z3226-080Z3227
+
SHEET 5
N.S. 6 | T.F. 9

Terminal block X1

MORSETTI DOPPI

double terminal bolck



PONTE

high level terminal block / PIANO SUPERIORE MORSETTIERA

low level terminal block / PIANO INFERIORE MORSETTIERA

WARNING:

Put a bridge between clamp 13 and 14 if Kriwan protection is not present.

Put a bridge between clamp 15 and 16 if high low pressure switch protection is not present.

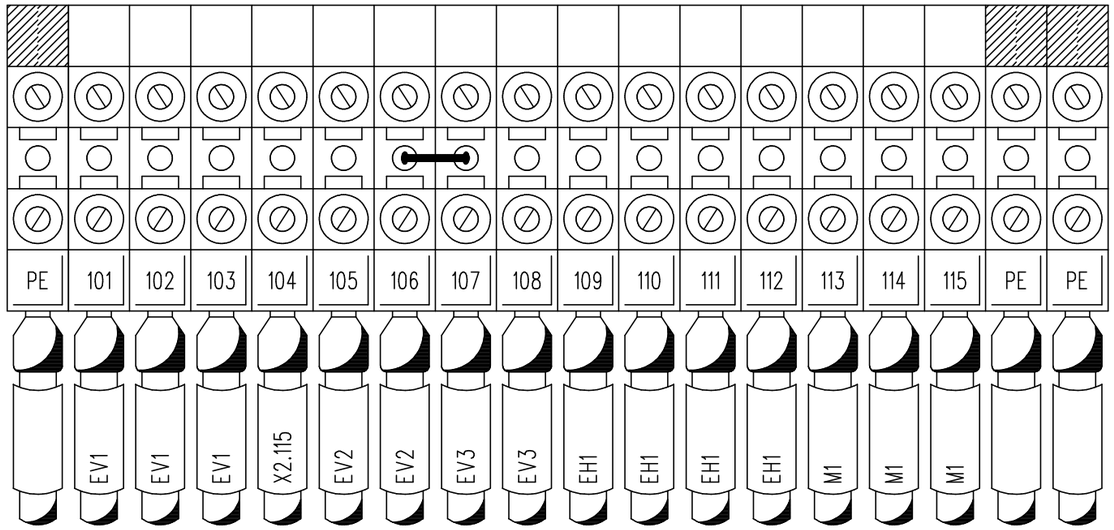
Leave free the clamp 7 and 8 if door switch is not present

!!! WARNING !!!!
SUM OF INSTALLED LOADS ABSORPTIONS HAVE NOT TO EXCEED MAIN SWITCH 25A.

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

DATE	07/04/2014	RIEPILOGO MORSETTI	OPTYMA™ Control, three-phase (7HP)
COMMISS.	Davide	TERMINAL BOARD SUMMARY	= 080Z3226-080Z3227
CHECKED BY			+
APPROV.		SUBST.: / SUB. FOR:	SHEET 6 / N.S. 7 / T.F. 9

Terminal block X2



MAXIMUM PERMISSIBLE LOAD
I Max 3,6A

MAXIMUM PERMISSIBLE LOAD
(EV1+EV2) I Max 4,3A

MAXIMUM PERMISSIBLE LOAD
9 KW (AC1)
Balanced resistive load

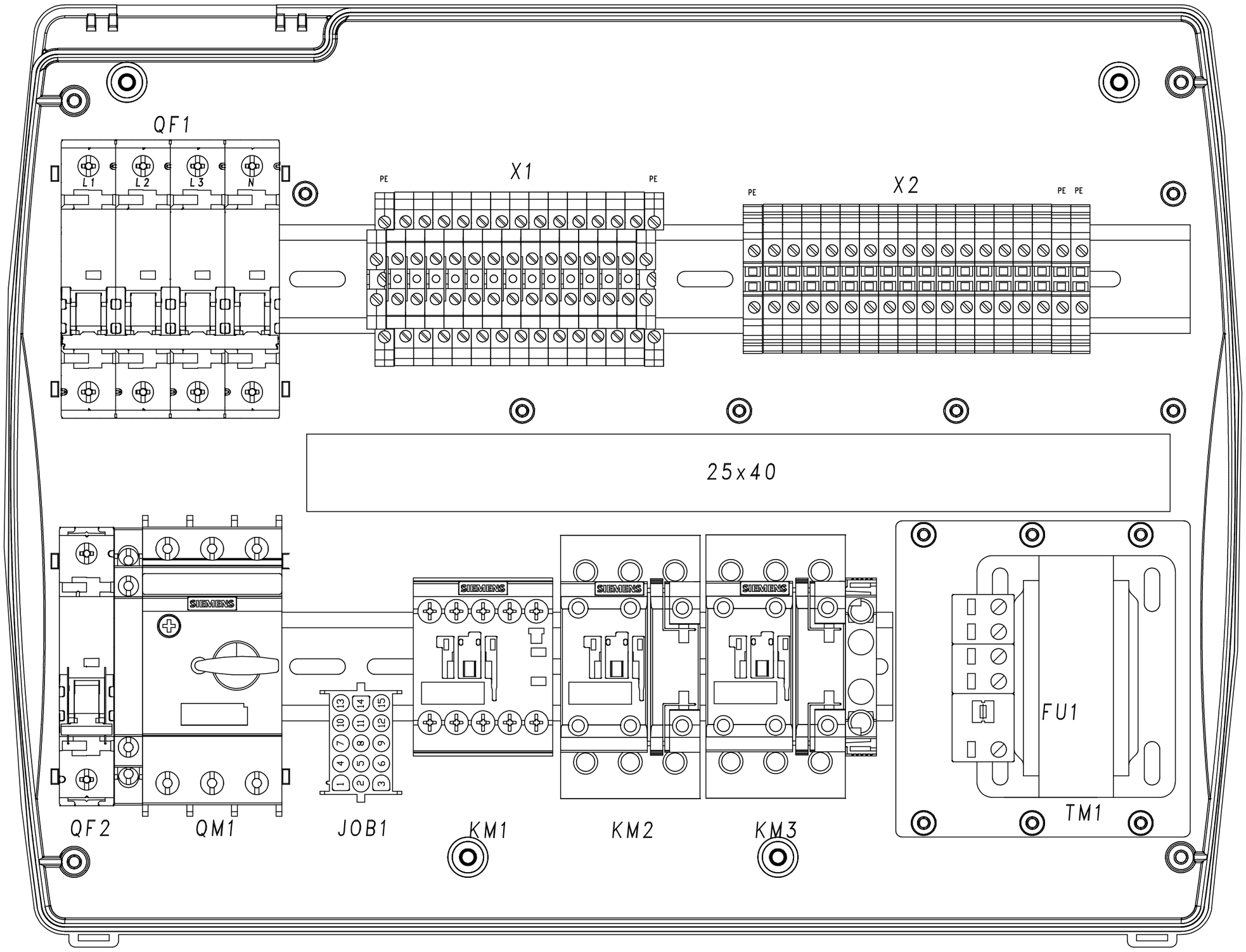
MAXIMUM PERMISSIBLE LOAD
Code 080Z3206: I Max 16A
Code 080Z3207: I Max 20A

!!! WARNING !!!!
SUM OF INSTALLED LOADS ABSORPTIONS
HAVE NOT TO EXCEED MAIN SWITCH 25A.

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:

DATE	07/04/2014	RIEPILOGO MORSETTI TERMINAL BOARD SUMMARY	OPTYMA™ Control, three-phase (7HP)
COMMISS.	Davide		= 080Z3226-080Z3227
CHECKED BY			+
APPROV.		SUBST.: SUB. FOR:	SHEET 7 N.S. 8 T.F. 9

PROJECT:
FILE NAME: *5DA300ExpertVD7-1.sch*
TYPE:



DATE	17/04/2014	LAY OUT		OPTYMA™ Control, three-phase (7HP)	= 080Z3226-080Z3227
COMMISS.	Davide				+
CHECKED BY					SHEET 8
APPROV.		SUBST.:	SUB. FOR:		N.S. T.F. 9