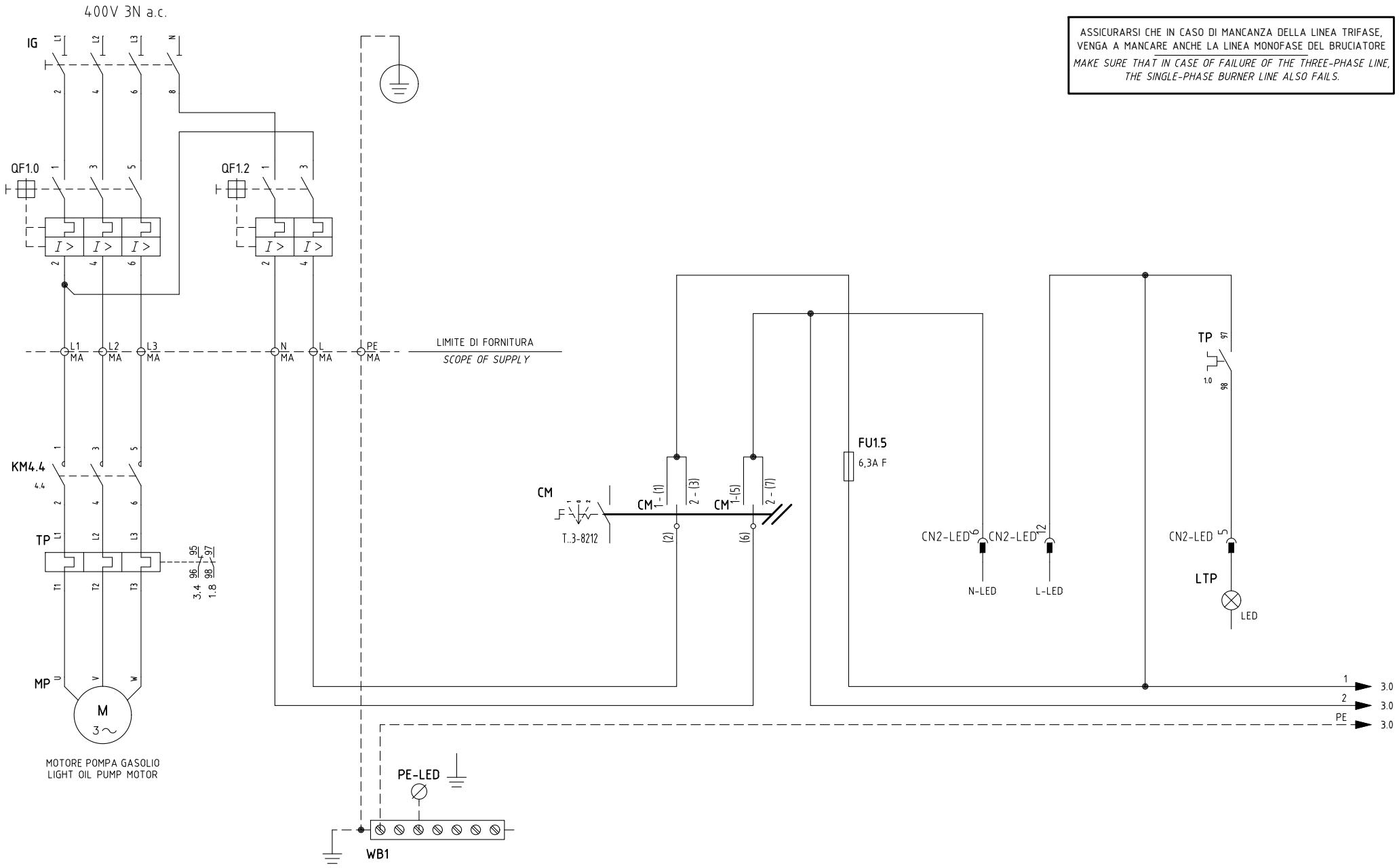


REV.	MODIFICA	DATA	FIRME
01	WIRING UPDATE	27/09/23	U. P.

UNIGAS

Impianto: HR91A÷HR525A/HRX91÷HRX525.1/HTLX1../C../E../G../H../K../Nxxxx(X)
MODELLO/MODEL MG.MD.x.xx.A.1.xx.EI(EK)

Descrizione: VERSION WITH LED SYNOPTIC PANEL 6100566

Ordine		Data	27/06/2016	PREC.	FOGLIO
Commessa	Data Controllato 27/09/2023	Revisione	01	/	1
Esecutore U. P.	Controllato M. M.	Dis. N.	05 – 1131	SEGUE 2	TOTALE 11

SIEMENS
LMV51.300/LMV52.400

FUEL COUNTER INPUT -GAS-
U Sensor
Pulse-IN
0
Reserve
FE
X71

FUEL COUNTER INPUT -OIL-
U Sensor
Pulse-IN
0
Reserve
FE
X72

FREQUENCY CONVERTER
Start-OUT
12/24VDC Alarm-IN
0/4-20mA Setpoint OUT
0
FE
X73

427 MMV
428 MMV
428A MMV
431 MMV
432 MMV
429 MMV
430 MMV
SCH2 MMV
3.5
3.5

SCHERMATURA SOLO LATO [LMV5x]
SHIELD ONLY [LMV5x] SIDE

ALIMENTAZIONE [400V 3a.c.]
POWER SUPPLY [400V 3a.c.]

91 (L1) 92 (L2) 93 (L3) 95 (PE)
96 (U) 97 (V) 98 (W) 99 (PE)
FE

12 18 5 4 2 1 53 + 55 -
DANFOSS VLT FC10x...
82 (R+) 81 (R-)
(FC102 ONLY)

L1 L2 L3 PE
+24 LI1 R1B R1C R2A R2C AI3 + COM -
SCHNEIDER ELECTRIC ATV312...
P0 PA /+ PB

+24 LI1 R1B R1C R2A R2C AI2 + COM -
SCHNEIDER ELECTRIC ATV61...
P0 PA /+ PB

9 5 21 22 24 25 3 + 4 -
SIEMENS MM440
B+/DC+ B-

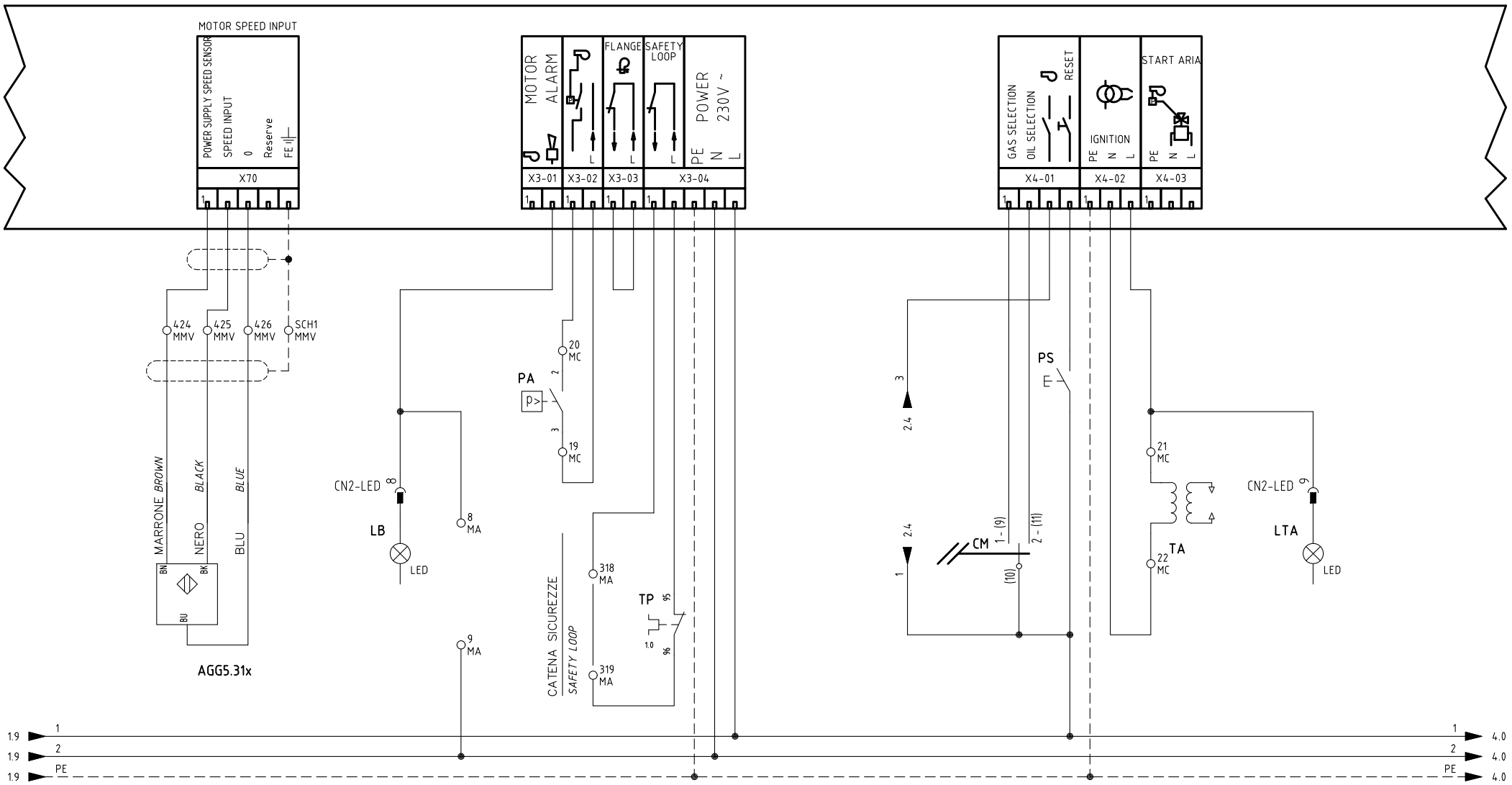
U V W PE FE
9 5 21 22 24 25 3 + 2 -
SIEMENS SED2xx

RF
RF 1/2
RF 1/2
RF//RF
RF
(OPTIONAL, SECONDO L'APPLICAZIONE)
(OPTIONAL, IN ACCORDANCE OF APPLICATION)

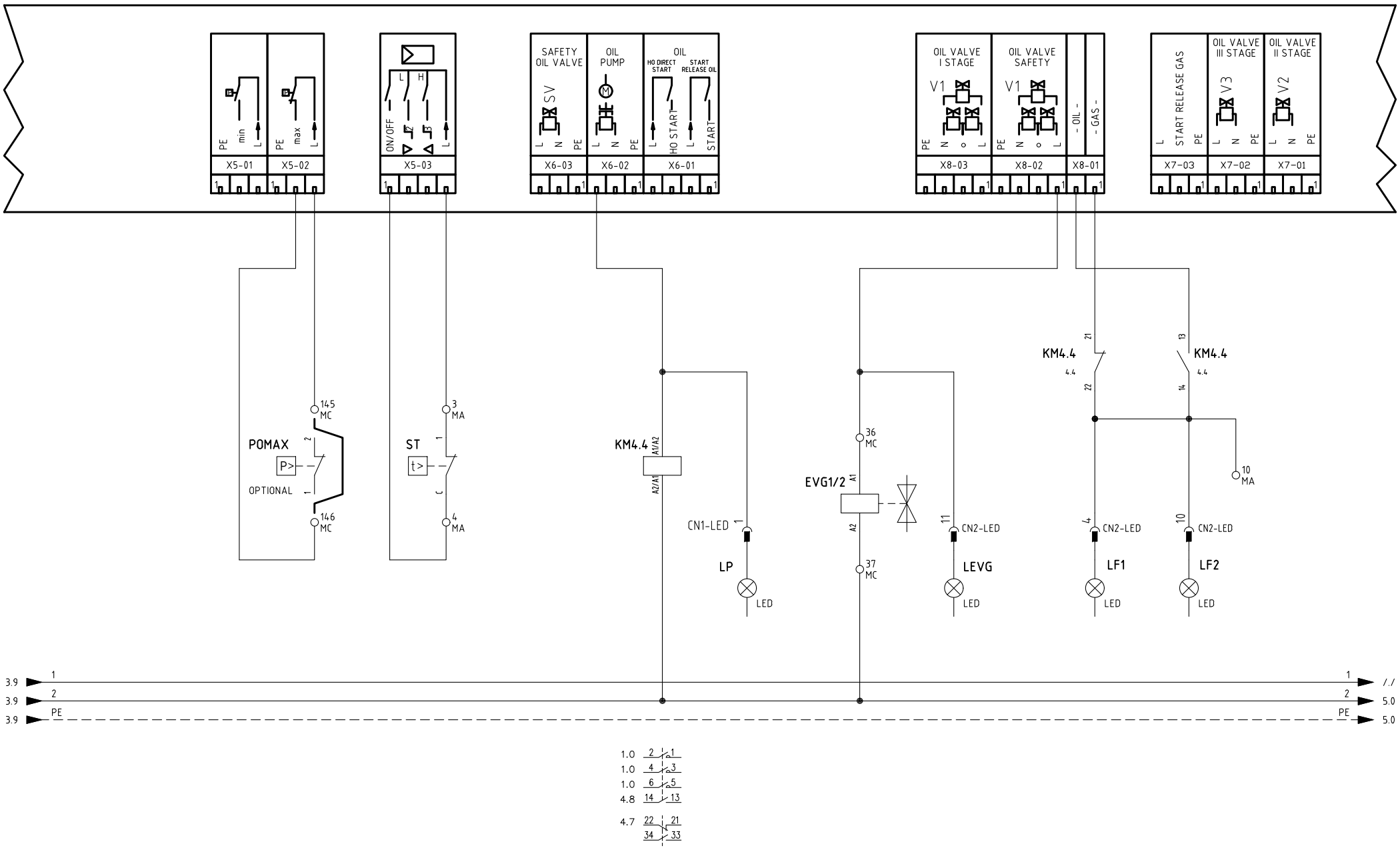
MV
M
3~
PE
MOTORE VENTILATORE
FAN MOTOR

SEGNALE [4÷20mA] COMANDO INVERTER
SIGNAL [4÷20mA] FOR INPUT INVERTER
MOTORE VENTILATORE "OK"
FAN MOTOR "OK"
ALLARME INVERTER
INVERTER ALARM
COMANDO START MOTORE VENTILATORE
FAN MOTOR START INPUT

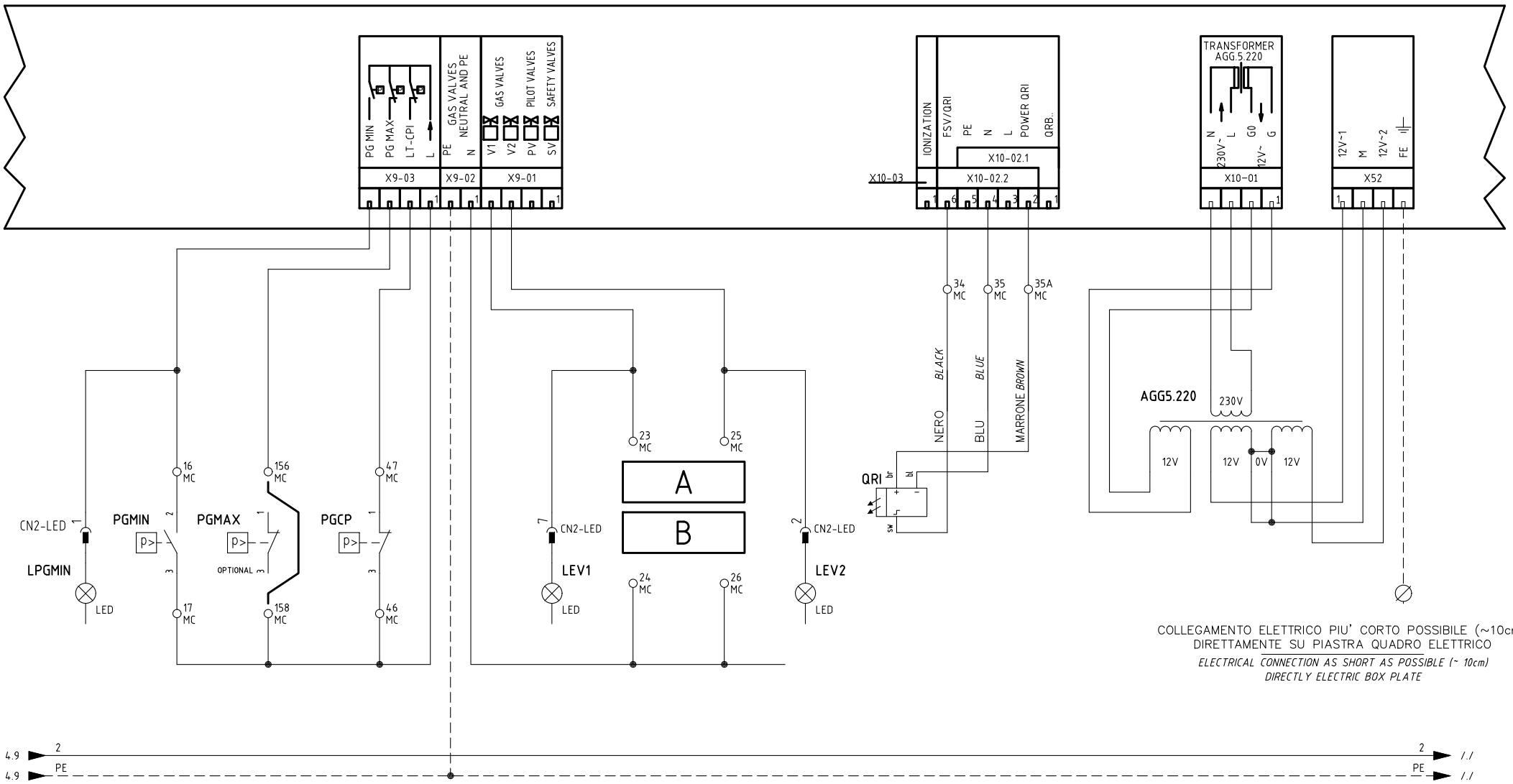
Data 27/06/2016		PREC.	FOGLIO
Revisione 01		1	2
Dis. N. 05 – 1131		SEGUE	TOTALE
		3	11

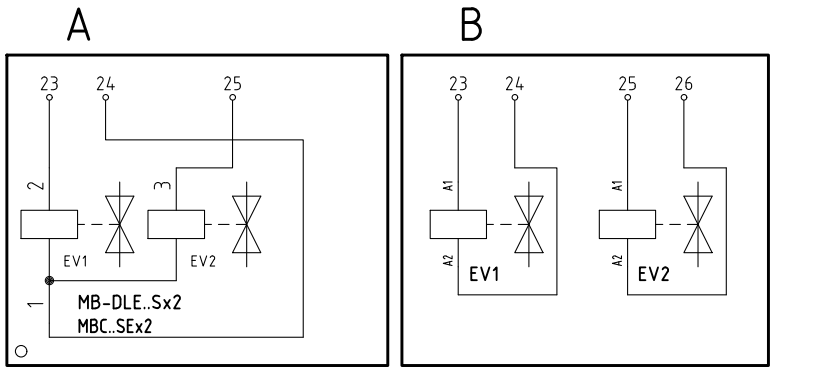


Data 27/06/2016		PREC.	FOGLIO
Revisione 01		2	3
Dis. N. 05 – 1131		SEGUE	TOTALE
		4	11

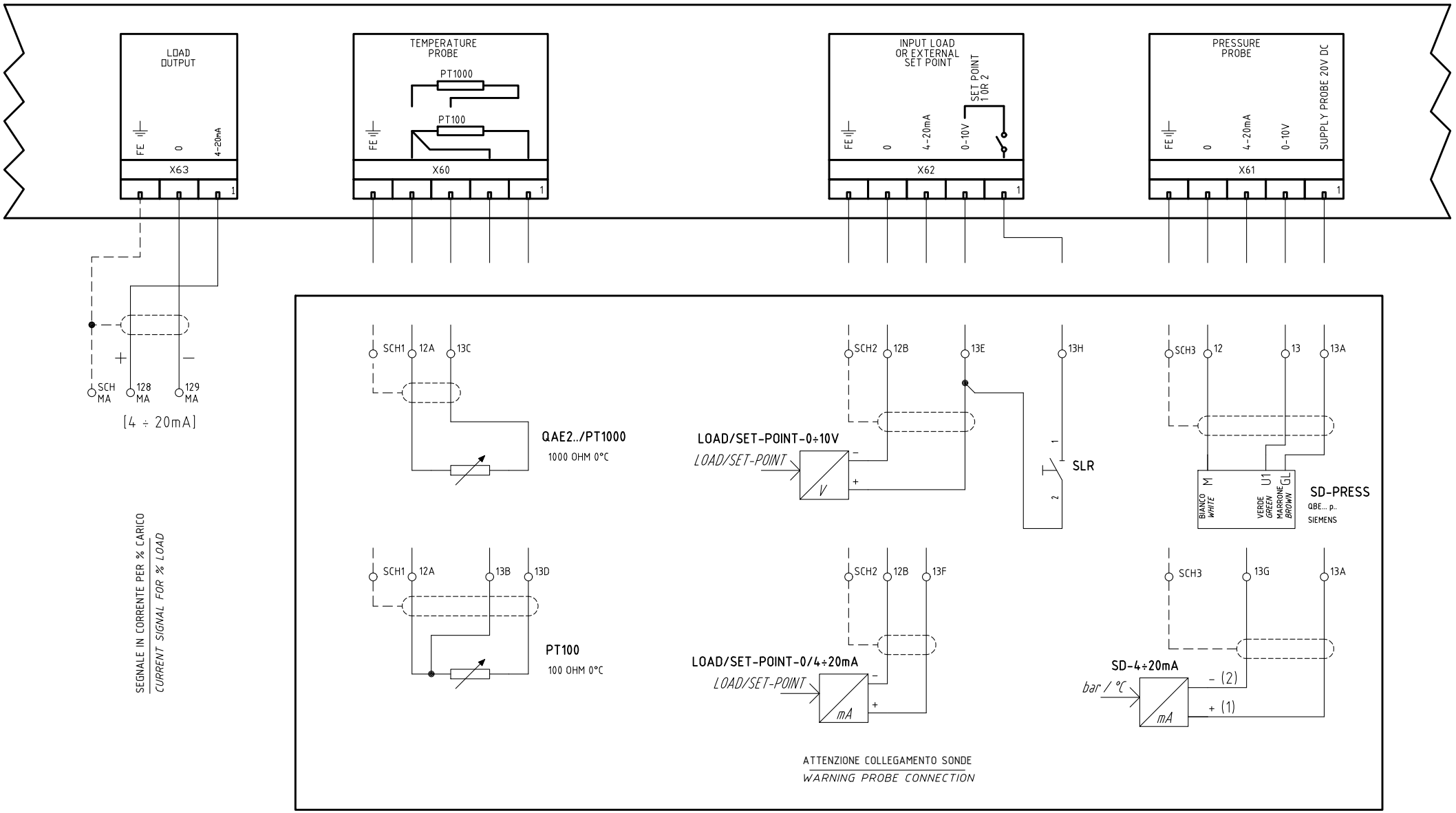


Data 27/06/2016		PREC.	FOGLIO
Revisione 01		3	4
Dis. N. 05 – 1131		SEGUE	TOTALE
		5	11

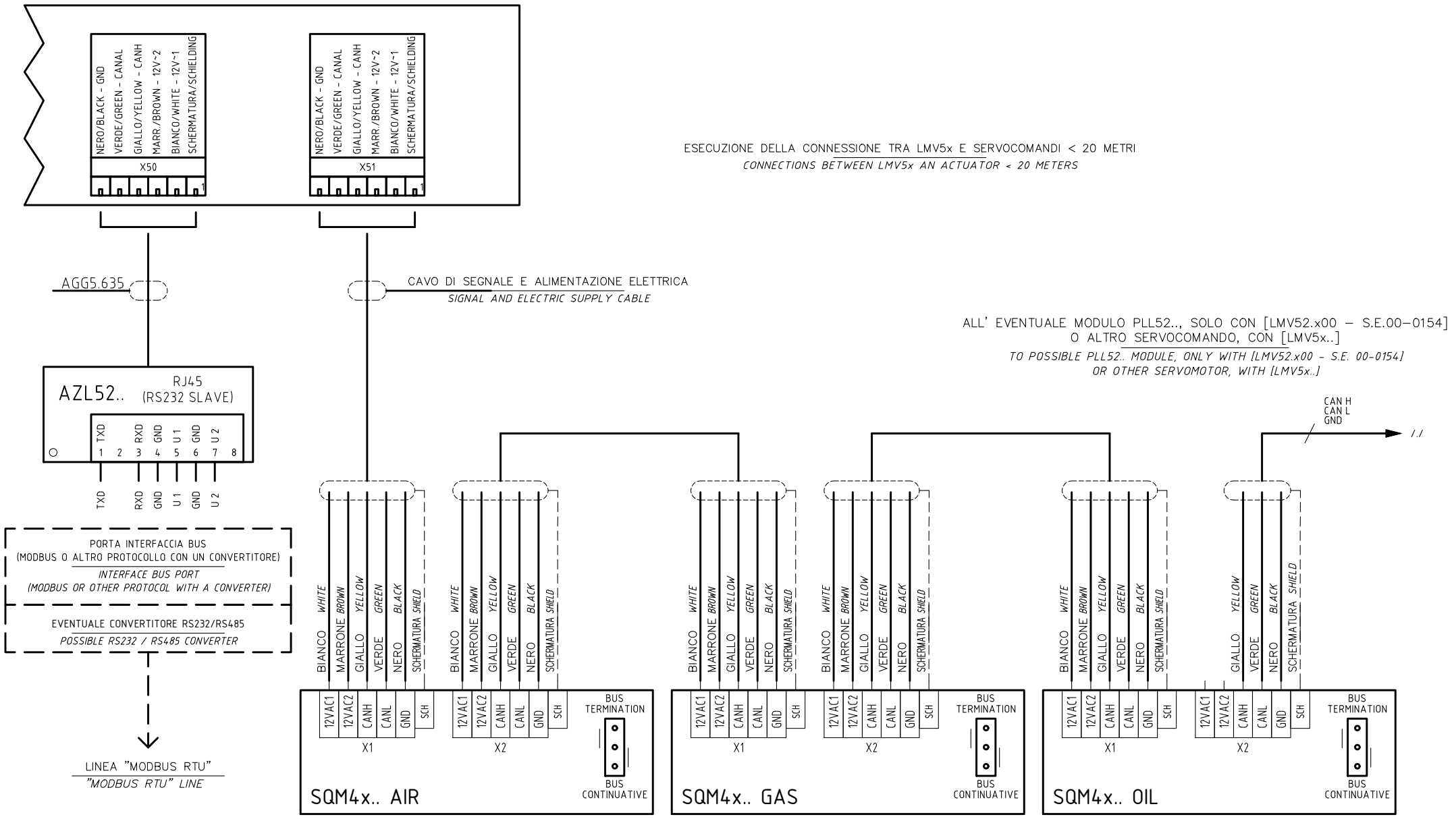




Data 27/06/2016		PREC. 4	FOGLIO 5
Revisione 01			
Dis. N. 05 – 1131		SEGUE 6	TOTALE 11



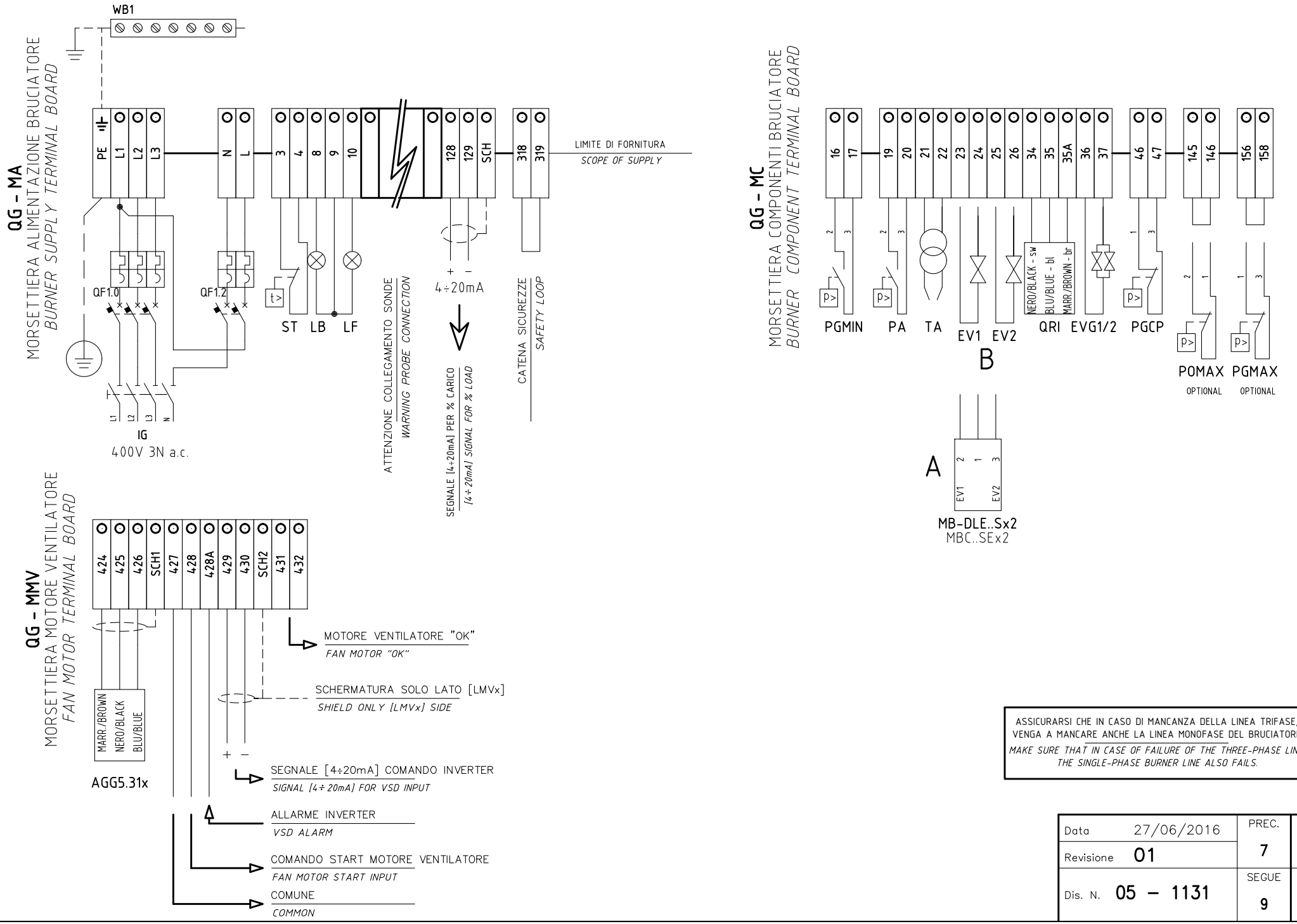
Data 27/06/2016		PREC. 5	FOGLIO 6
Revisione 01			
Dis. N. 05 – 1131		SEGUE 7	TOTALE 11



LA SEQUENZA DEI SERVOCOMANDI (ED EVENTUALE SCHEDA PLL52..) PUO' ESSERE DIVERSA;
E' IMPORTANTE PERO' CHE L'ULTIMO COMPONENTE SIA CON IL PONTE "BUS TERMINATION"

THE CONNECTIONS OF ACTUATORS (AND POSSIBLE PLL52.. CIRCUIT) TO LMV CAN BE DIFFERENT;
PLEASE NOTE THAT THE LAST COMPONENT MUST HAVE THE BRIDGE "BUS TERMINATION"

Data 27/06/2016		PREC. 6	FOGLIO 7
Revisione 01			
Dis. N. 05 – 1131		SEGUE 8	TOTALE 11



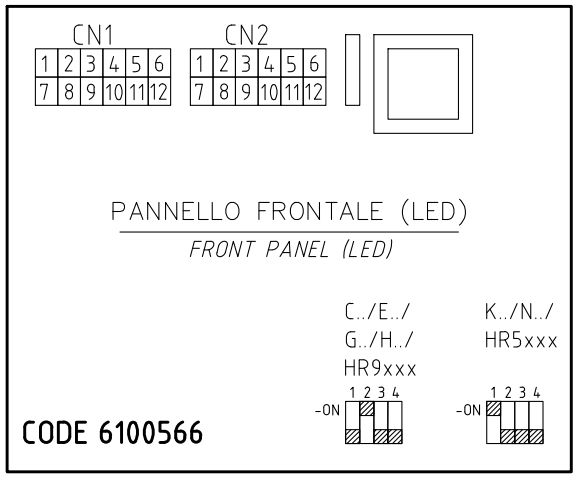
ASSICURARSI CHE IN CASO DI MANCANZA DELLA LINEA TRIFASE, VENGA A MANCARE ANCHE LA LINEA MONOFASE DEL BRUCIATORE

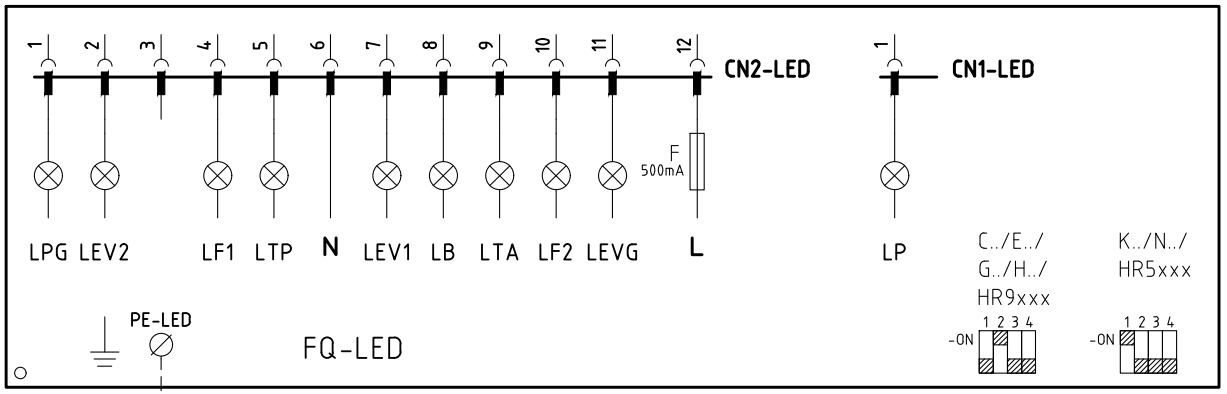
MAKE SURE THAT IN CASE OF FAILURE OF THE THREE-PHASE LINE, THE SINGLE-PHASE BURNER LINE ALSO FAILS.

Data 27/06/2016		PREC. 7	FOGLIO 8
Revisione 01			
Dis. N. 05 – 1131		SEGUE 9	TOTALE 11

VISTA LATO COMPONENTI

COMPONENTS SIDE VIEW





BARRA DI TERRA

EARTH TERMINAL

Data 27/06/2016		PREC. 8	FOGLIO 9
Revisione 01			
Dis. N. 05 – 1131		SEGUE 10	TOTALE 11

0	1	2	3	4	5	6	7	8	9

Sigla/Item	Foglio/Sheet	Funzione	Function
AGG5.31x	3	SENSORE GIRI MOTORE	SPEED SENSOR
AGG5.220	5	TRASFORMATORE AUSILIARIO	AUXILIARY TRANSFORMER
ATV61...	2	INVERTER VENTILATORE	FAN START-UP
ATV312...	2	INVERTER VENTILATORE	FAN START-UP
AZL52..	7	PROGRAMMATORE	PROGRAMMING
CM	1	COMMUTATORE FUNZIONAMENTO 1)GAS 0)SPENTO 2)GASOLIO	MANUAL OPERATION SWITCH 1)GAS 0)OFF 2)LIGHT OIL
EV1	5	ELETTROVALVOLA GAS LATO RETE	UPSTREAM GAS SOLENOID VALVE
EV2	5	ELETTROVALVOLA GAS LATO BRUCIATORE	DOWNSTREAM GAS SOLENOID VALVE
EVG1/2	4	ELETTROVALVOLE GASOLIO	LIGHT OIL ELECTRO VALVES
FQ-LED	9	PANNELLO FRONTALE (LED)	FRONT PANEL (LED)
FU1.5	1	FUSIBILE LINEA AUSILIARI	AUXILIARY LINE FUSE
IG	1	INTERRUTTORE GENERALE	MAINS SWITCH
KM4.4	4	CONTATTORE MOTORE POMPA GASOLIO	LIGHT OIL PUMP MOTOR CONTACTOR
LB	3	LAMPADA SEGNALAZIONE BLOCCO BRUCIATORE	INDICATOR LIGHT FOR BURNER LOCK-OUT
LEV1	5	LAMPADA SEGNALAZIONE APERTURA [EV1]	INDICATOR LIGHT FOR OPENING OF ELECTRO-VALVE [EV1]
LEV2	5	LAMPADA SEGNALAZIONE APERTURA [EV2]	INDICATOR LIGHT FOR OPENING OF ELECTRO-VALVE [EV2]
LEVG	4	LAMPADA SEGNALAZIONE APERTURA [EVG]	INDICATOR LIGHT FOR OPENING OF ELECTRO-VALVE [EVG]
LF1	4	LAMPADA SEGNALAZIONE FUNZIONAMENTO BRUCIATORE	INDICATOR LIGHT BURNER OPERATION
LF2	4	LAMPADA SEGNALAZIONE FUNZIONAMENTO BRUCIATORE	INDICATOR LIGHT BURNER OPERATION
LMV51.300/LMV52.400	2	APPARECCHIATURA DI COMANDO	CONTROL SCHEME
LOAD/SET-POINT-0/4÷20mA	6	SEGNALE IN CORRENTE PER % CARICO	CURRENT SIGNAL FOR % LOAD
LOAD/SET-POINT-0÷10V	6	SEGNALE IN TENSIONE PER % CARICO	VOLTAGE SIGNAL FOR % LOAD
LP	4	LAMPADA SEGNALAZIONE FUNZIONAMENTO POMPA	INDICATOR LIGHT FOR PUMP OPERATION
LPGMIN	5	LAMPADA SEGNALAZIONE PRESENZA GAS IN RETE	INDICATOR LIGHT FOR PRESENCE OF GAS IN THE NETWORK
LTA	3	LAMPADA SEGNALAZIONE TRASFORMATORE DI ACCENSIONE	IGNITION TRANSFORMER INDICATOR LIGHT
LTP	1	LAMPADA SEGNALAZIONE BLOCCO TERMICO MOTORE POMPA	INDICATOR LIGHT FOR PUMP MOTOR OVERLOAD THERMAL CUTOUT
MB-DLE..Sx2	5	GRUPPO VALVOLE GAS	GAS VALVES GROUP
MBC..SEx2	5	GRUPPO VALVOLE GAS (ALTERNATIVO)	GAS VALVES GROUP (ALTERNATIVE)
MM440	2	INVERTER VENTILATORE	FAN START-UP
MP	1	MOTORE POMPA GASOLIO	LIGHT OIL PUMP MOTOR
MV	2	MOTORE VENTILATORE	FAN MOTOR
PA	3	PRESSOSTATO ARIA	AIR PRESSURE SWITCH

Data 27/06/2016		PREC. 9	FOGLIO 10
Revisione 01			
Dis. N. 05 – 1131		SEGUE 11	TOTALE 11

Sigla/Item	Foglio/Sheet	Funzione	Function
PGCP	5	PRESSOSTATO GAS CONTROLLO PERDITE	GAS LEAKAGE PRESSURE SWITCH
PGMAX	5	PRESSOSTATO GAS DI MASSIMA PRESSIONE (OPTIONAL)	MAXIMUM PRESSURE GAS SWITCH (OPTIONAL)
PGMIN	5	PRESSOSTATO GAS DI MINIMA PRESSIONE	MINIMUM GAS PRESSURE SWITCH
POMAX	4	PRESSOSTATO DI MASSIMA PRESSIONE OLIO (OPTIONAL)	MAXIMUM OIL PRESSURE SWITCH (OTIONAL)
PS	3	PULSANTE SBLOCCO FIAMMA	FLAME UNLOCK BUTTON
PT100	6	SONDA DI TEMPERATURA	TEMPERATURE PROBE
QAE2../PT1000	6	SONDA DI TEMPERATURA	TEMPERATURE PROBE
QF1.0	1	MAGNETOTERMICO PROTEZIONE ALIMENTAZIONE TRIFASE	THREE-PHASE POWER CIRCUIT BREAKER PROTECTION
QF1.2	1	MAGNETOTERMICO PROTEZIONE LINEA AUSILIARI	AUXILIARY SUPPLY CIRCUIT BREAKER PROTECTION
QRI	5	SONDA UV RILEVAZIONE FIAMMA	UV FLAME DETECTOR
RF	2	RESISTENZA DI FRENATURA	BRAKING RESISTOR
SD-4÷20mA	6	SEGNALE IN CORRENTE	CURRENT SIGNAL
SD-PRESS	6	SONDA DI PRESSIONE	PRESSURE PROBE
SED2xx	2	INVERTER VENTILATORE	FAN START-UP
SLR	6	SELETTORE LOCALE/REMOTO	LOCAL/REMOTE SELECTOR
SQM4x.. AIR	7	SERVOCOMANDO SERRANDA ARIA	AIR DAMPER ACTUATOR
SQM4x.. GAS	7	SERVOCOMANDO FARFALLA GAS	GAS THROTTLE VALVE ACTUATOR
SQM4x.. OIL	7	SERVOCOMANDO REGOLATORE OLIO	OIL REGULATOR ACTUATOR
ST	4	SERIE TERMOSTATI/PRESSOSTATI	SERIES OF THERMOSTATS OR PRESSURE SWITCHES
TA	3	TRASFORMATORE DI ACCENSIONE	IGNITION TRANSFORMER
TP	1	TERMICO MOTORE POMPA GASOLIO	LIGHT OIL PUMP MOTOR THERMAL
VLT FC10x...	2	INVERTER VENTILATORE	FAN START-UP
WB1	1	BARRA DI TERRA	EARTH TERMINAL

Data 27/06/2016		PREC. 10	FOGLIO 11
Revisione 01			
Dis. N. 05 – 1131		SEGUE /	TOTALE 11