

0 1 2 3 4 5 6 7 8 9

# Electrical Specification - Specifiche Elettriche

Model - Modello

## CUBO PACKS MULTI - Bitzer Semihermetics

Bitzer MT-BT  
3 Compr Semihermetics  
XC645CX -0C11F-  
Condenser Fans 2 x Ø 630 1Ph  
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A

B

C

D

E

F

A

B

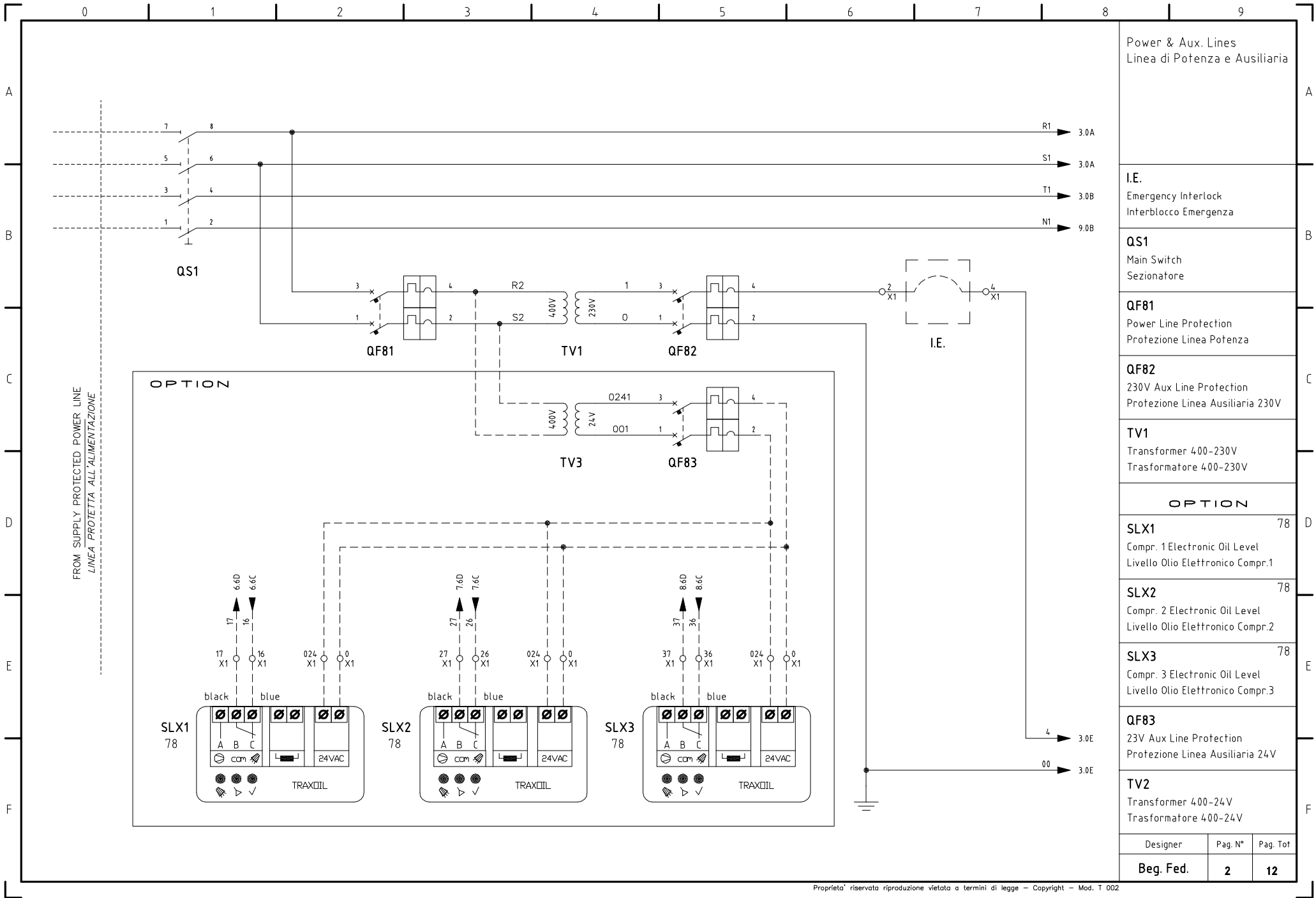
C

D

E

F

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Power & Aux. Lines  
Linea di Potenza e Ausiliaria

**I.E.**  
Emergency Interlock  
Interblocco Emergenza

**QS1**  
Main Switch  
Sezionatore

**QF81**  
Power Line Protection  
Protezione Linea Potenza

**QF82**  
230V Aux Line Protection  
Protezione Linea Ausiliaria 230V

**TV1**  
Transformer 400-230V  
Trasformatore 400-230V

**OPTION**

**SLX1** 78  
Compr. 1 Electronic Oil Level  
Livello Olio Elettronico Compr.1

**SLX2** 78  
Compr. 2 Electronic Oil Level  
Livello Olio Elettronico Compr.2

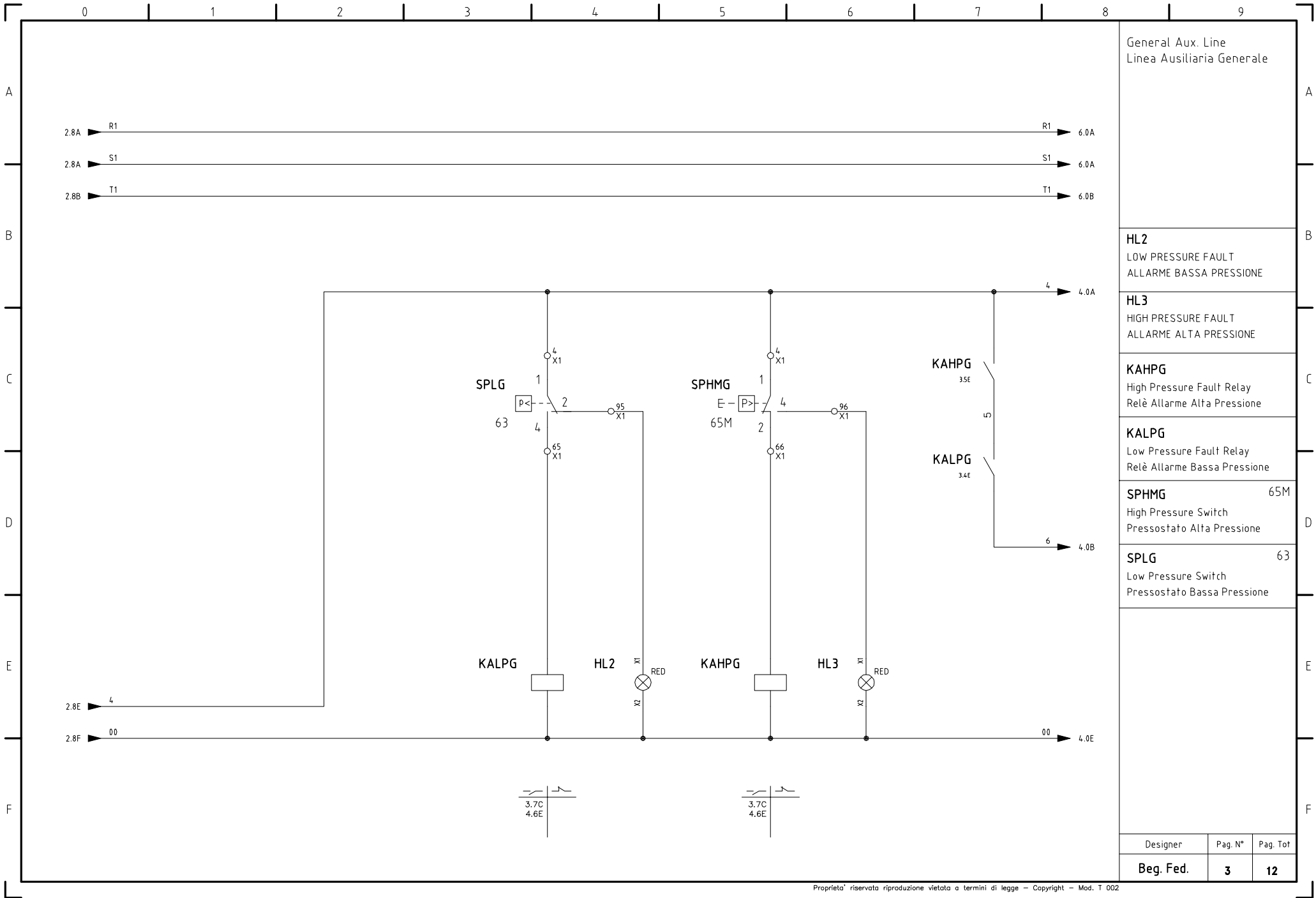
**SLX3** 78  
Compr. 3 Electronic Oil Level  
Livello Olio Elettronico Compr.3

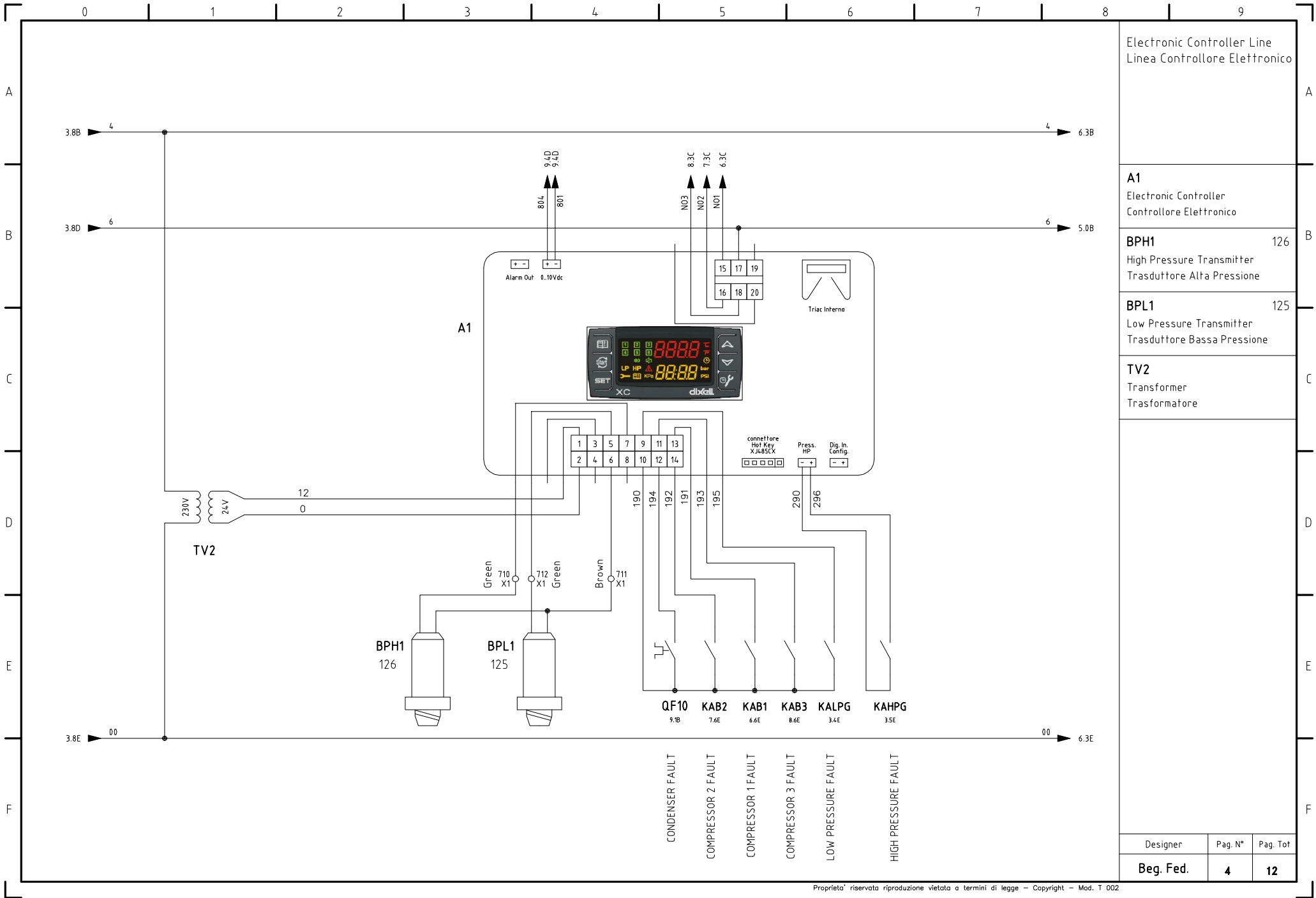
**QF83**  
23V Aux Line Protection  
Protezione Linea Ausiliaria 24V

**TV2**  
Transformer 400-24V  
Trasformatore 400-24V

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Electronic Controller Line  
Linea Controllore Elettronico

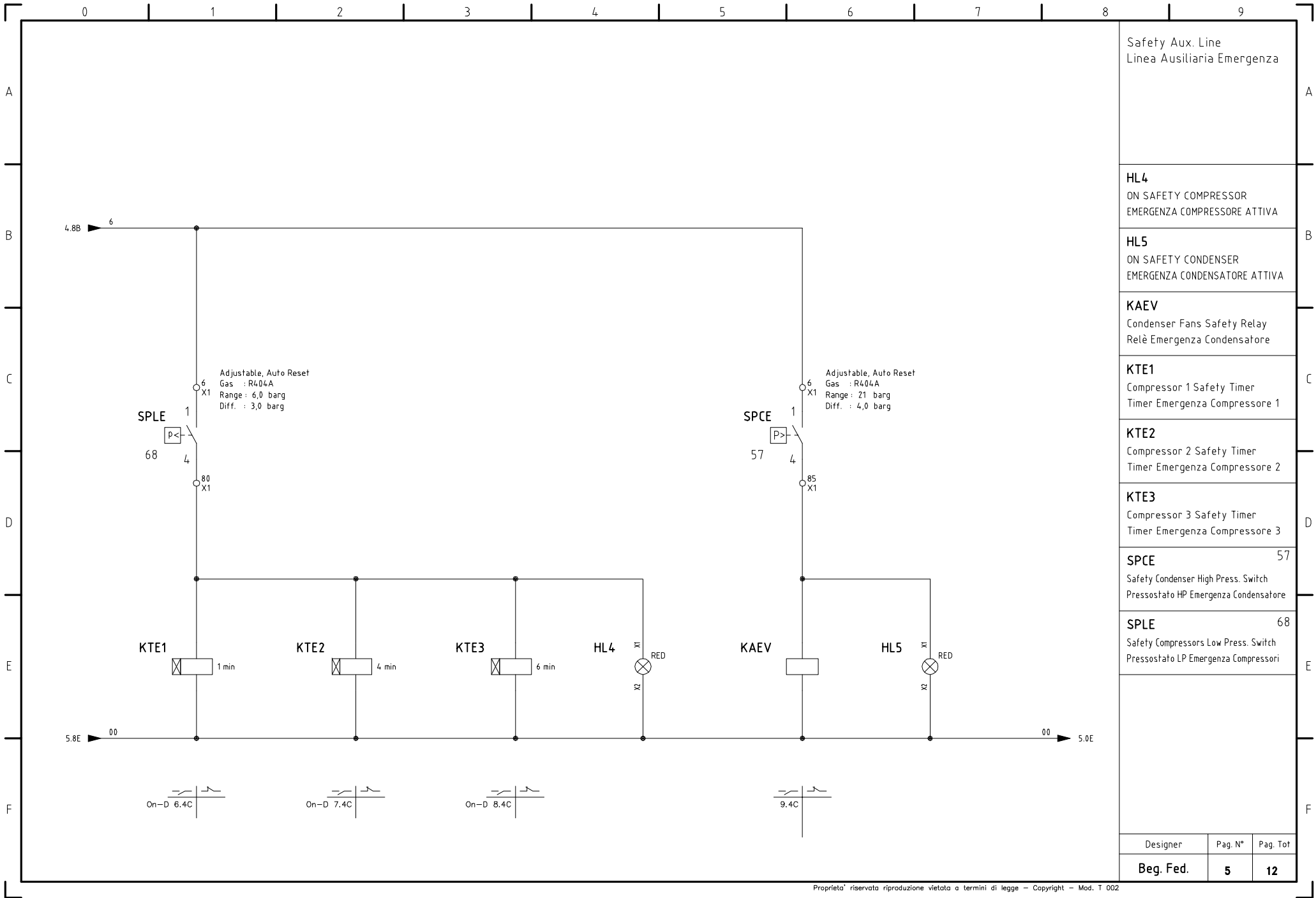
**A1**  
Electronic Controller  
Controllore Elettronico

**BPH1** 126  
High Pressure Transmitter  
Trasduttore Alta Pressione

**BPL1** 125  
Low Pressure Transmitter  
Trasduttore Bassa Pressione

**TV2**  
Transformer  
Trasformatore

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Safety Aux. Line  
Linea Ausiliaria Emergenza

**HL4**  
ON SAFETY COMPRESSOR  
EMERGENZA COMPRESSORE ATTIVA

**HL5**  
ON SAFETY CONDENSER  
EMERGENZA CONDENSATORE ATTIVA

**KAEV**  
Condenser Fans Safety Relay  
Relè Emergenza Condensatore

**KTE1**  
Compressor 1 Safety Timer  
Timer Emergenza Compressore 1

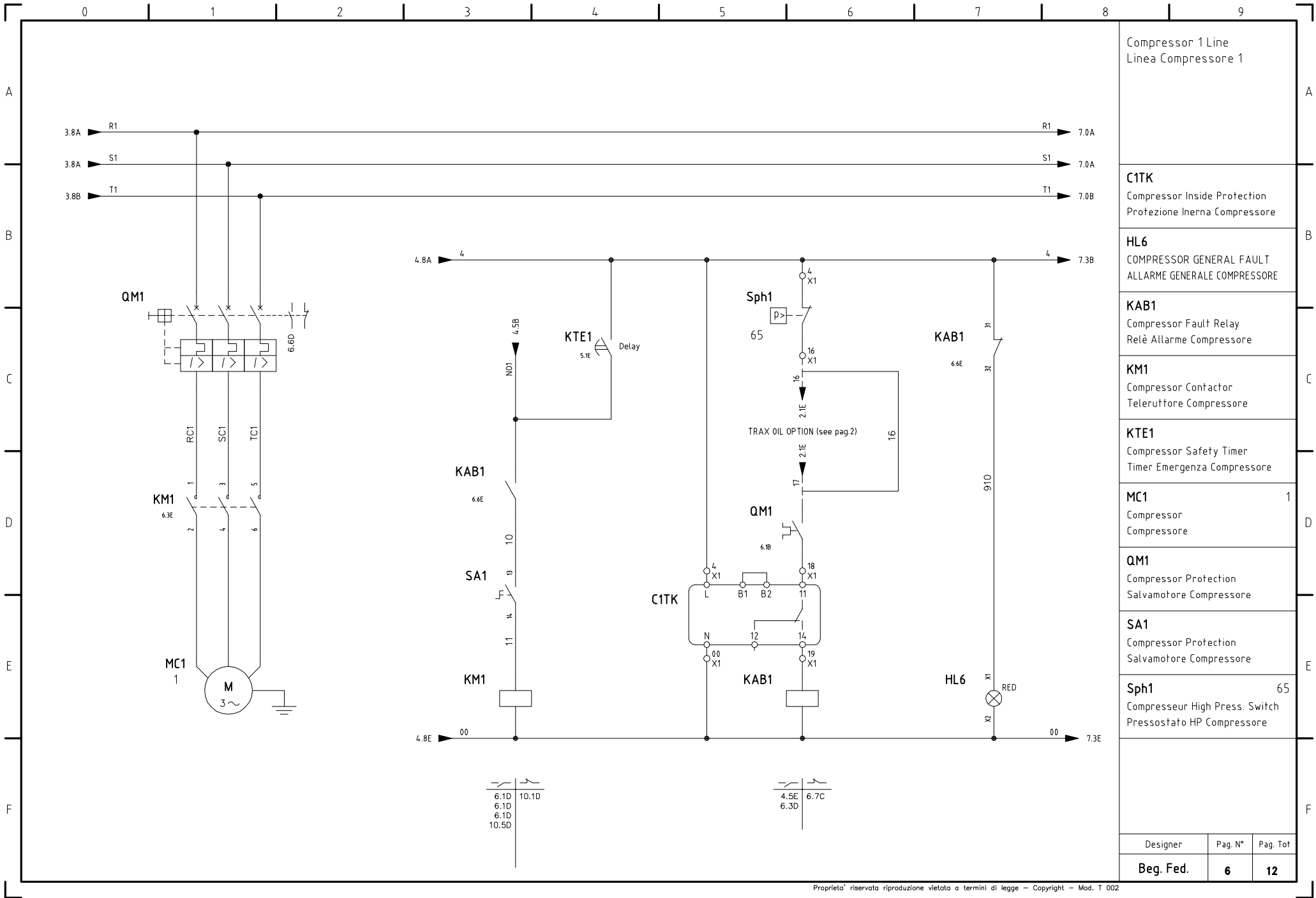
**KTE2**  
Compressor 2 Safety Timer  
Timer Emergenza Compressore 2

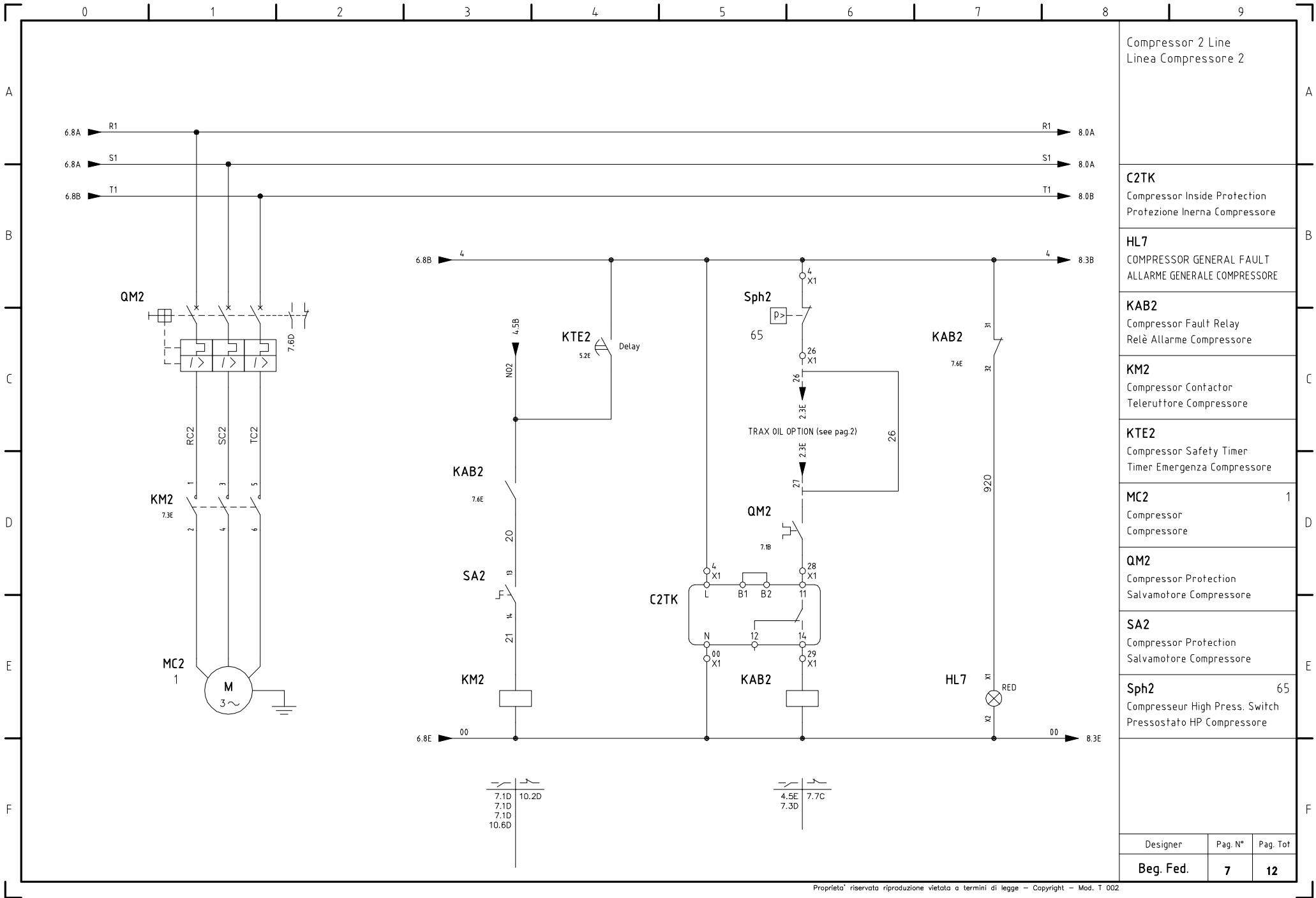
**KTE3**  
Compressor 3 Safety Timer  
Timer Emergenza Compressore 3

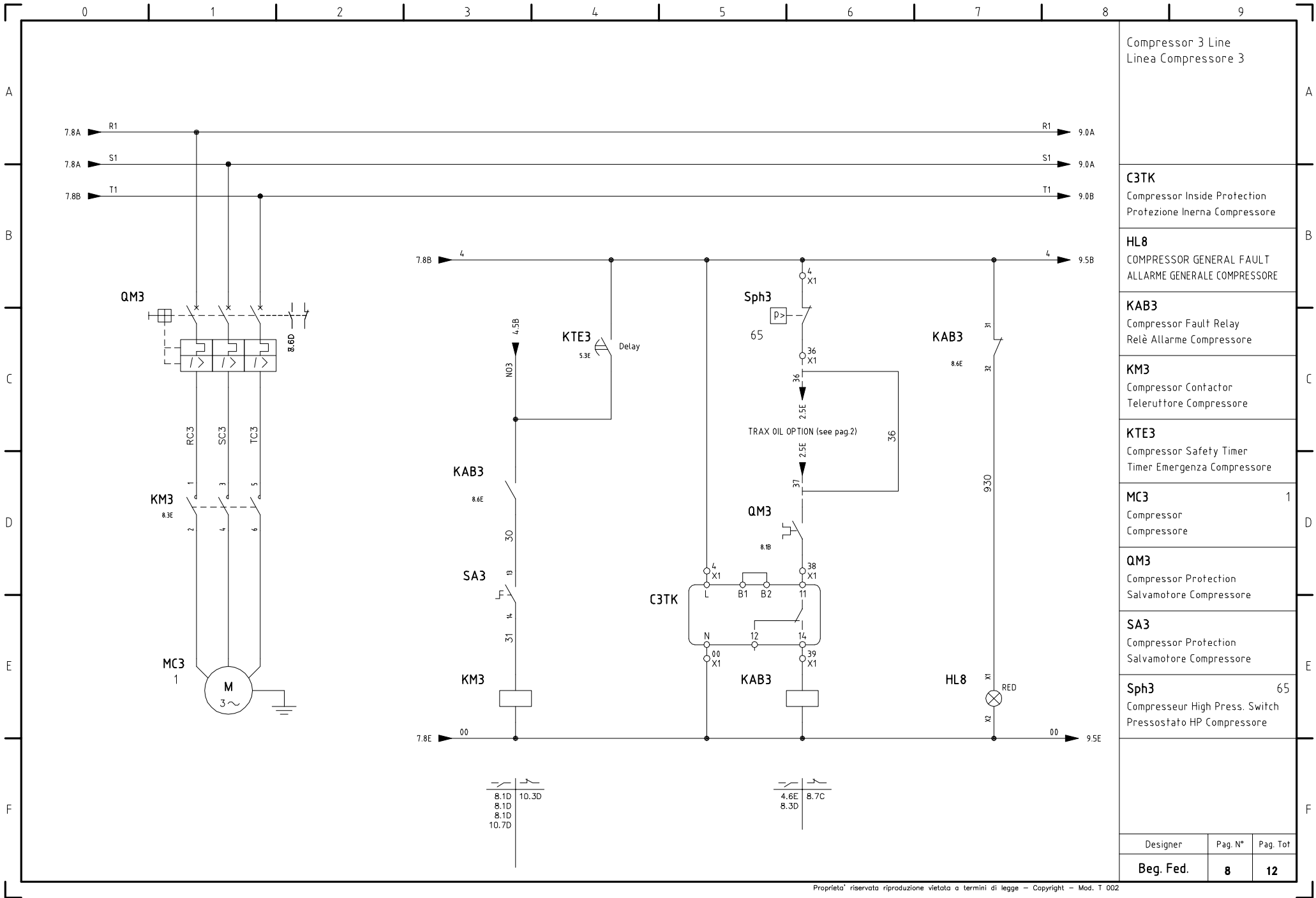
**SPCE** 57  
Safety Condenser High Press. Switch  
Pressostato HP Emergenza Condensatore

**SPLE** 68  
Safety Compressors Low Press. Switch  
Pressostato LP Emergenza Compressori

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Compressor 3 Line  
Linea Compressore 3

**C3TK**  
Compressor Inside Protection  
Protezione Interna Compressore

**HL8**  
COMPRESSOR GENERAL FAULT  
ALLARME GENERALE COMPRESSORE

**KAB3**  
Compressor Fault Relay  
Relè Allarme Compressore

**KM3**  
Compressor Contactor  
Teleruttore Compressore

**KTE3**  
Compressor Safety Timer  
Timer Emergenza Compressore

**MC3** 1  
Compressor  
Compressore

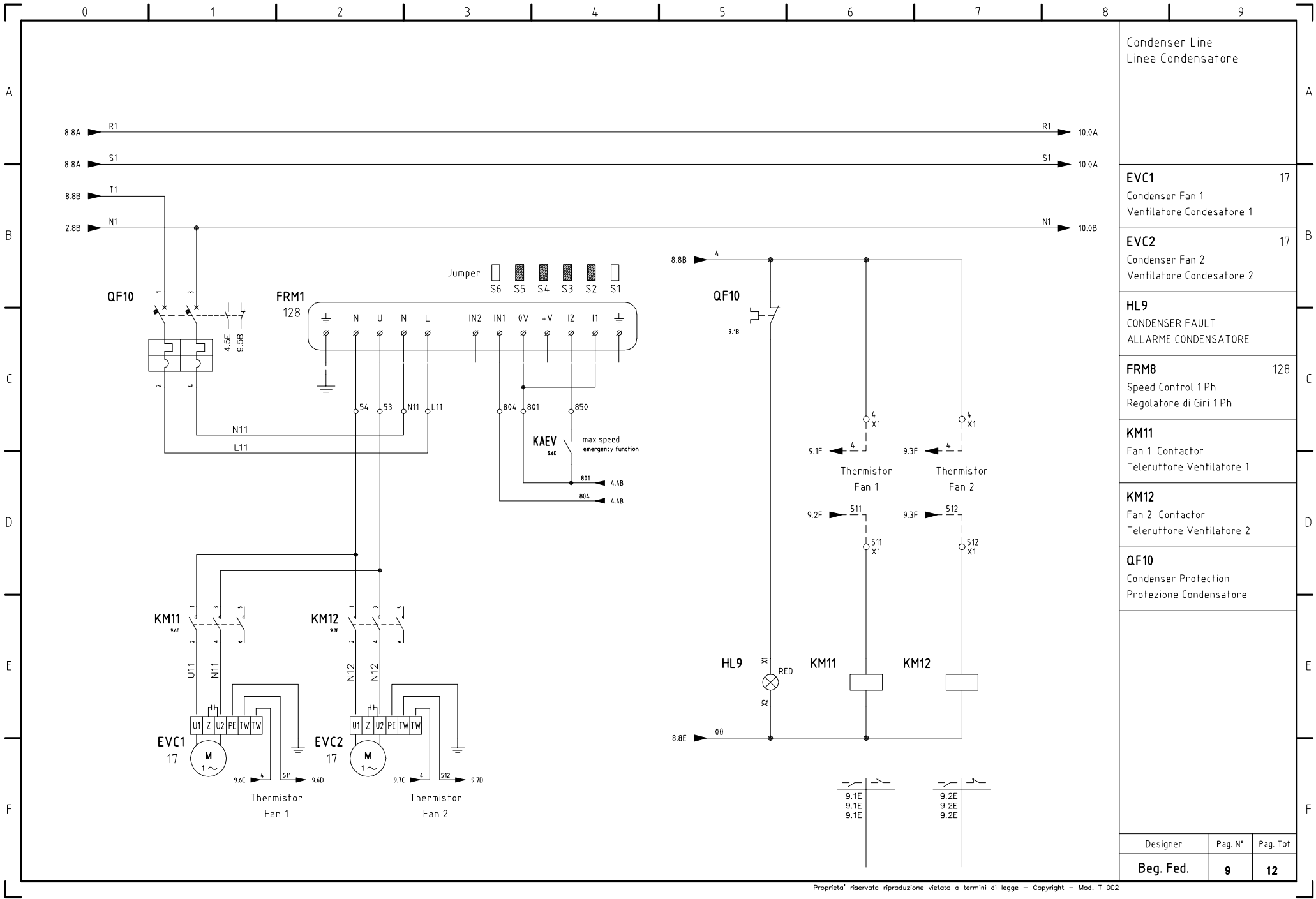
**QM3**  
Compressor Protection  
Salvatore Compressore

**SA3**  
Compressor Protection  
Salvatore Compressore

**Sph3** 65  
Compressor High Press. Switch  
Pressostato HP Compressore

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Condenser Line  
Linea Condensatore

EVC1 17  
Condenser Fan 1  
Ventilatore Condensatore 1

EVC2 17  
Condenser Fan 2  
Ventilatore Condensatore 2

HL9  
CONDENSER FAULT  
ALLARME CONDENSATORE

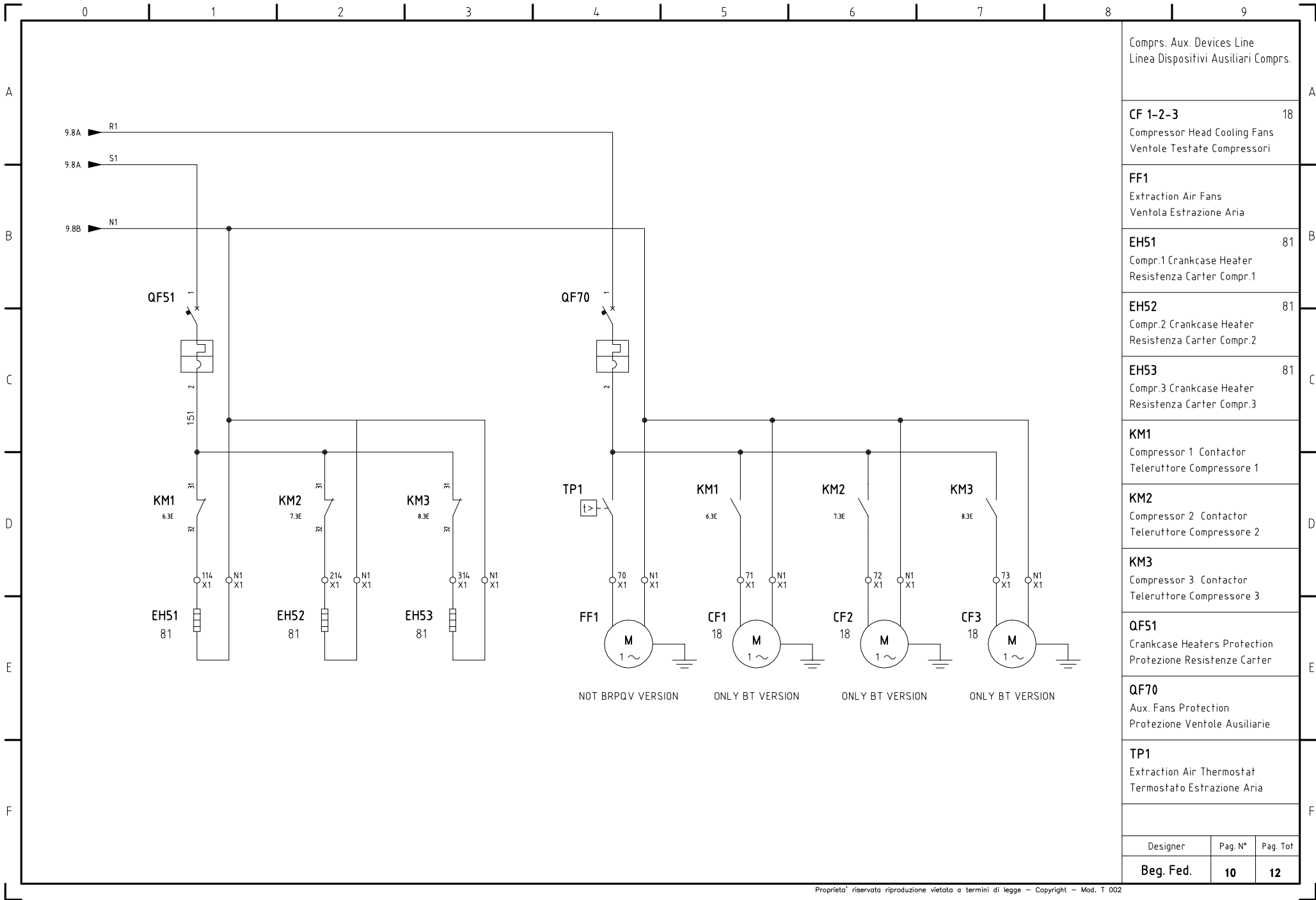
FRM8 128  
Speed Control 1 Ph  
Regolatore di Giri 1 Ph

KM11  
Fan 1 Contactor  
Teleruttore Ventilatore 1

KM12  
Fan 2 Contactor  
Teleruttore Ventilatore 2

QF10  
Condenser Protection  
Protezione Condensatore

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Comprs. Aux. Devices Line  
Linea Dispositivi Ausiliari Comprs.

**CF 1-2-3** 18  
Compressor Head Cooling Fans  
Ventole Testate Compressori

**FF1**  
Extraction Air Fans  
Ventola Estrazione Aria

**EH51** 81  
Compr.1 Crankcase Heater  
Resistenza Carter Compr.1

**EH52** 81  
Compr.2 Crankcase Heater  
Resistenza Carter Compr.2

**EH53** 81  
Compr.3 Crankcase Heater  
Resistenza Carter Compr.3

**KM1**  
Compressor 1 Contactor  
Teleruttore Compressore 1

**KM2**  
Compressor 2 Contactor  
Teleruttore Compressore 2

**KM3**  
Compressor 3 Contactor  
Teleruttore Compressore 3

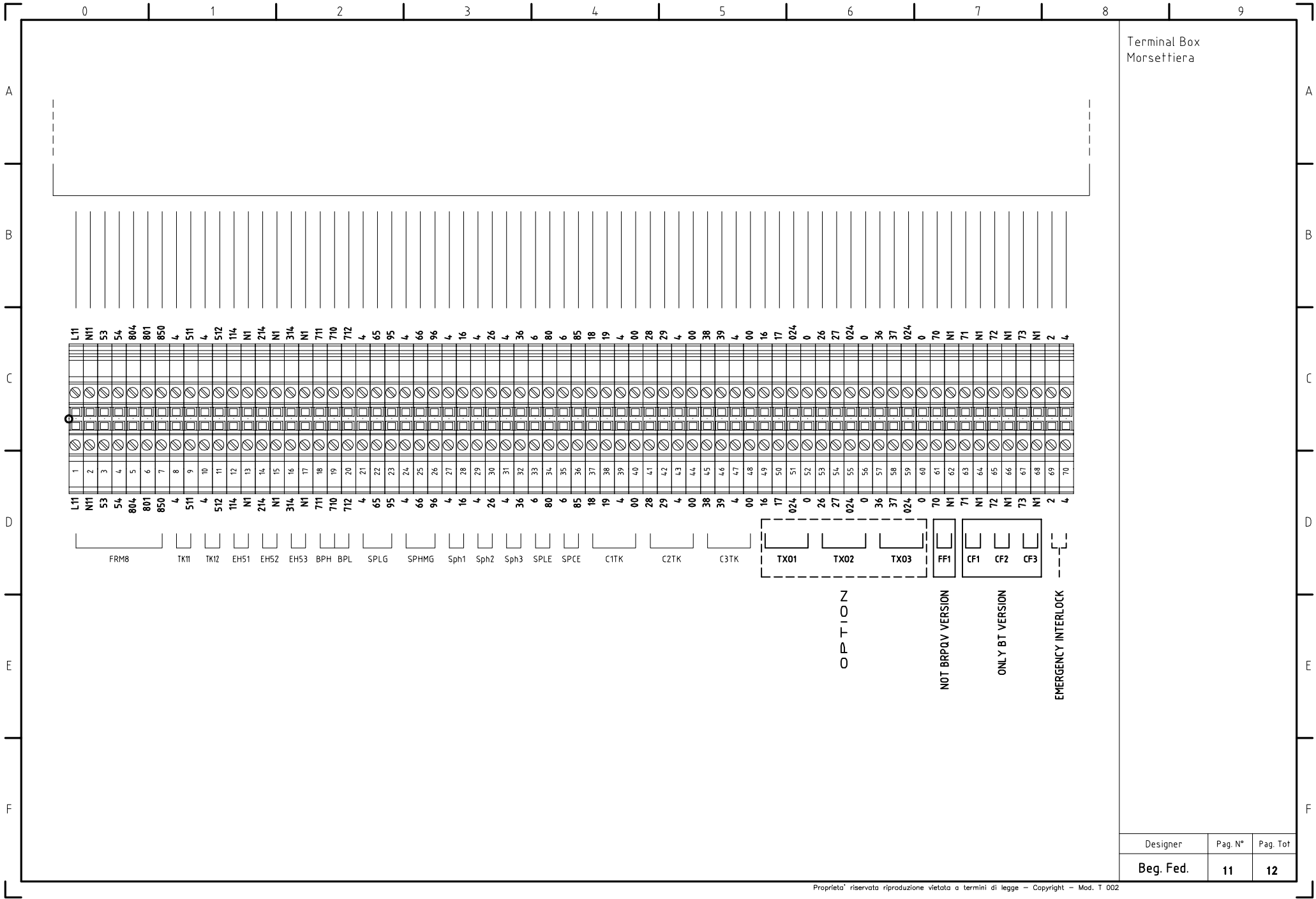
**QF51**  
Crankcase Heaters Protection  
Protezione Resistenze Carter

**QF70**  
Aux. Fans Protection  
Protezione Ventole Ausiliarie

**TP1**  
Extraction Air Thermostat  
Termostato Estrazione Aria

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**Beg. Fed.** 10 12



Terminal Box  
Morsettiera

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Components List  
Lista Componenti

Nome/Item	Tipo/Type	Costruttore/Marke	Fg/Sh	Funzione/Function [1]
A1		Dixell	4	Electronic Controller
BPH1		Wika	4	HP Transmitter
BPL1		Wika	4	LP Transmitter
EVC1		Ebm - Papst	9	Condenser Fan 1
EVC2		Ebm - Papst	9	Condenser Fan 2
KA30		Finder	3	Control Phases Relay
KAB1		Finder	6	Compressor 1 Fault Relay
KAB2		Finder	7	Compressor 2 Fault Relay
KAB3		Finder	8	Compressor 3 Fault Relay
KAEV		Finder	5	Condenser Fans Safety Relay
KAHPG		Finder	3	High Pressure Fault Relay
KALPG		Finder	3	Low Pressure Fault Relay
KM1		Siemens	6	Compressor 1 Contactor
KM2		Siemens	7	Compressor 2 Contactor
KM3		Siemens	8	Compressor 3 Contactor
KM11		Siemens	9	Condenser Fan 1 Contactor
KM12		Siemens	9	Condenser Fan 2 Contactor
KTE1		Omron	5	Compressor 1 Safety Timer
KTE2		Omron	5	Compressor 2 Safety Timer
KTE3		Omron	5	Compressor 3 Safety Timer
MC1		Copeland	6	Compressor 1
MC2		Copeland	7	Compressor 2
MC3		Copeland	8	Compressor 3
QF10		Siemens	9	Condenser Protection
QF30		Siemens	3	Control Phases Relay Protection
QF51		Siemens	10	Compressors Crankcase Heaters Protection
QF81		Siemens	2	400V Power Line Protection
QF82		Siemens	2	230V Aux. Line Protection
QF83		Siemens	2	24V Aux. Line Protection
QM1		Siemens	6	Compressor 1 Protection
QM2		Siemens	7	Compressor 2 Protection
QM3		Siemens	8	Compressor 3 Protection
QS1		Socomec	2	Main Switch
SA1		Abb	6	Compressor 1 Off/On Switch
SA2		Abb	7	Compressor 2 Off/On Switch
SA3		Abb	8	Compressor 3 Off/On Switch
SLX1		Alco	2	Compressor 1 Electronic Oil Level
SLX2		Alco	2	Compressor 2 Electronic Oil Level
SLX3		Alco	2	Compressor 3 Electronic Oil Level
SPE		Danfoss	5	Safety Condenser High Pressure Switch
Sph1		Danfoss	6	Compresseur 1 High Mini-Pressure Switch
Sph2		Danfoss	7	Compresseur 2 High Mini-Pressure Switch
Sph3		Danfoss	8	Compresseur 3 High Mini-Pressure Switch
SPHMG		Danfoss	3	General High Pressure Switch
SPL		Danfoss	5	Safety Compressors Low Pressure Switch
SPLG		Danfoss	3	General Low Pressure Switch
TV1		Tecnocablaggi	2	Transformer 400-230V
TV2		Tecnocablaggi	4	Transformer 230-12V
TV3		Tecnocablaggi	2	Transformer 400-24V
YVds		Digital Scroll	4	Digital Scroll Unloading Valve

Option ---->

Option ---->

Option ---->

Option ---->

Option ---->

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