

0 1 2 3 4 5 6 7 8 9

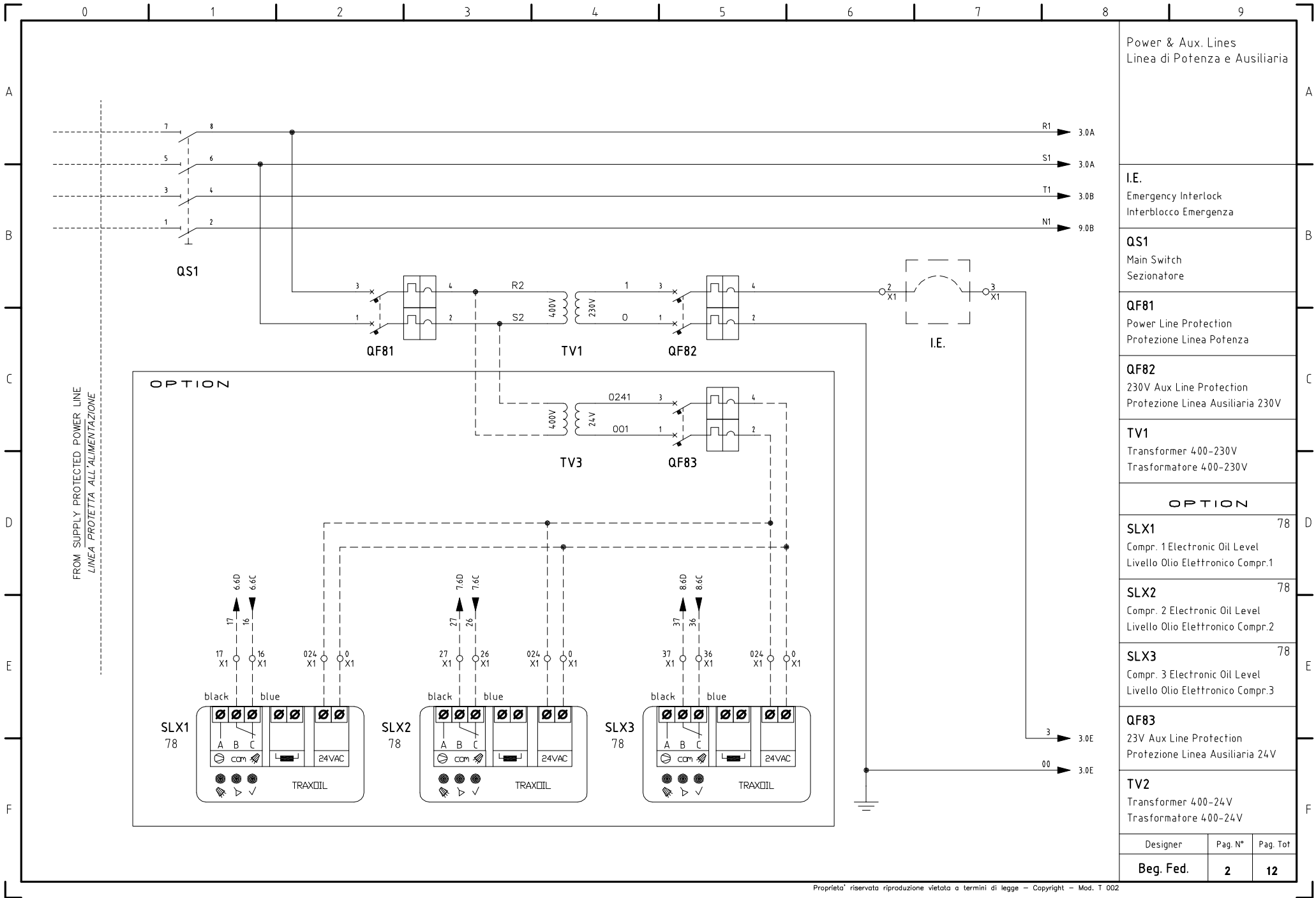
Electrical Specification - Specifiche Elettriche

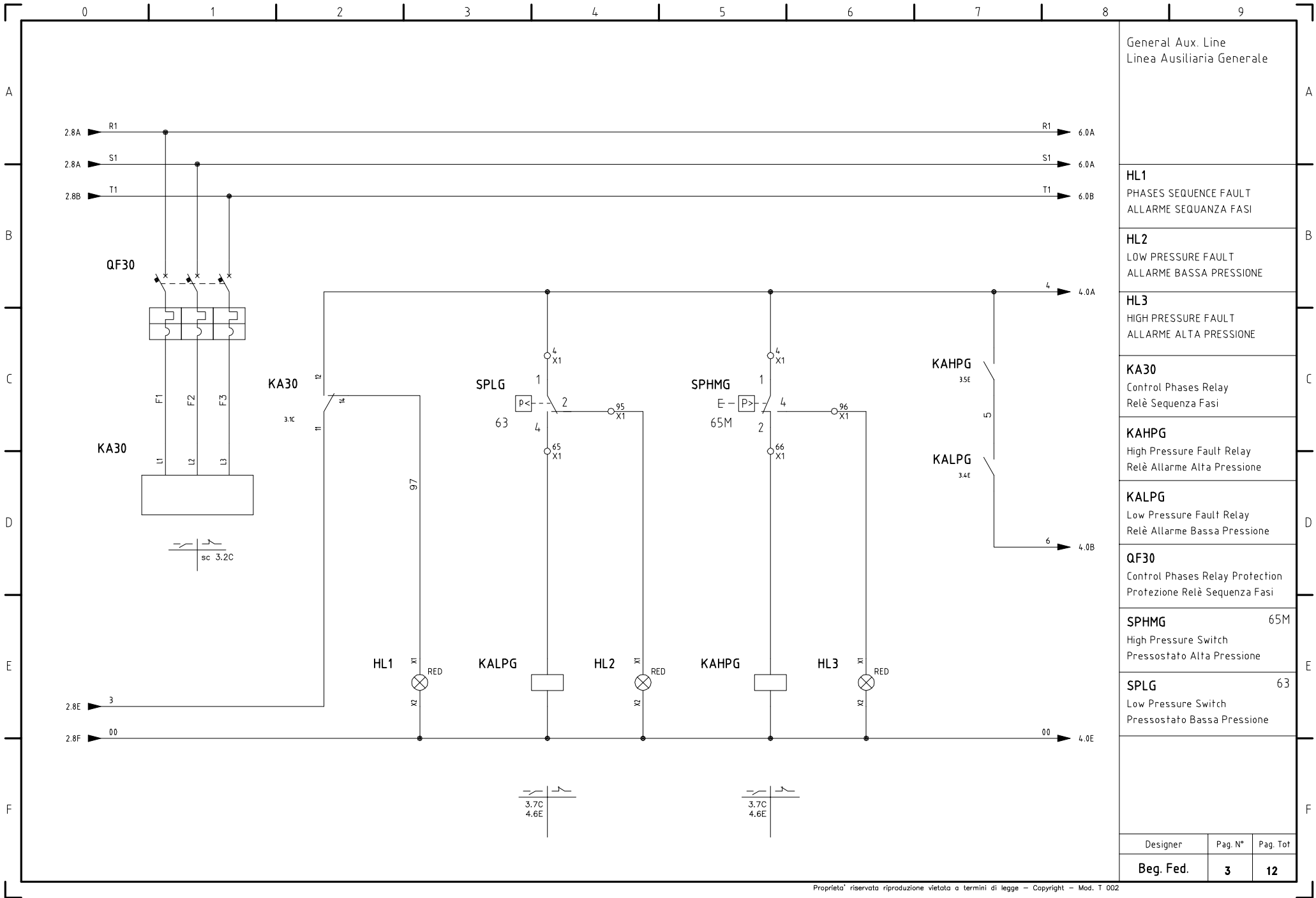
Model - Modello

CUBO PACKS MULTI - Copeland Scroll BT

Copeland Scroll BT
3 Compressors Scroll ZF
XC645CX -0C11F-
Condenser Fans 2 x ϕ 630 1Ph

Designer	Pag. N°	Pag. Tot
Beg. Fed.	1	12





General Aux. Line
Linea Ausiliaria Generale

HL1
PHASES SEQUENCE FAULT
ALLARME SEQUANZA FASI

HL2
LOW PRESSURE FAULT
ALLARME BASSA PRESSIONE

HL3
HIGH PRESSURE FAULT
ALLARME ALTA PRESSIONE

KA30
Control Phases Relay
Relè Sequenza Fasi

KAHPG
High Pressure Fault Relay
Relè Allarme Alta Pressione

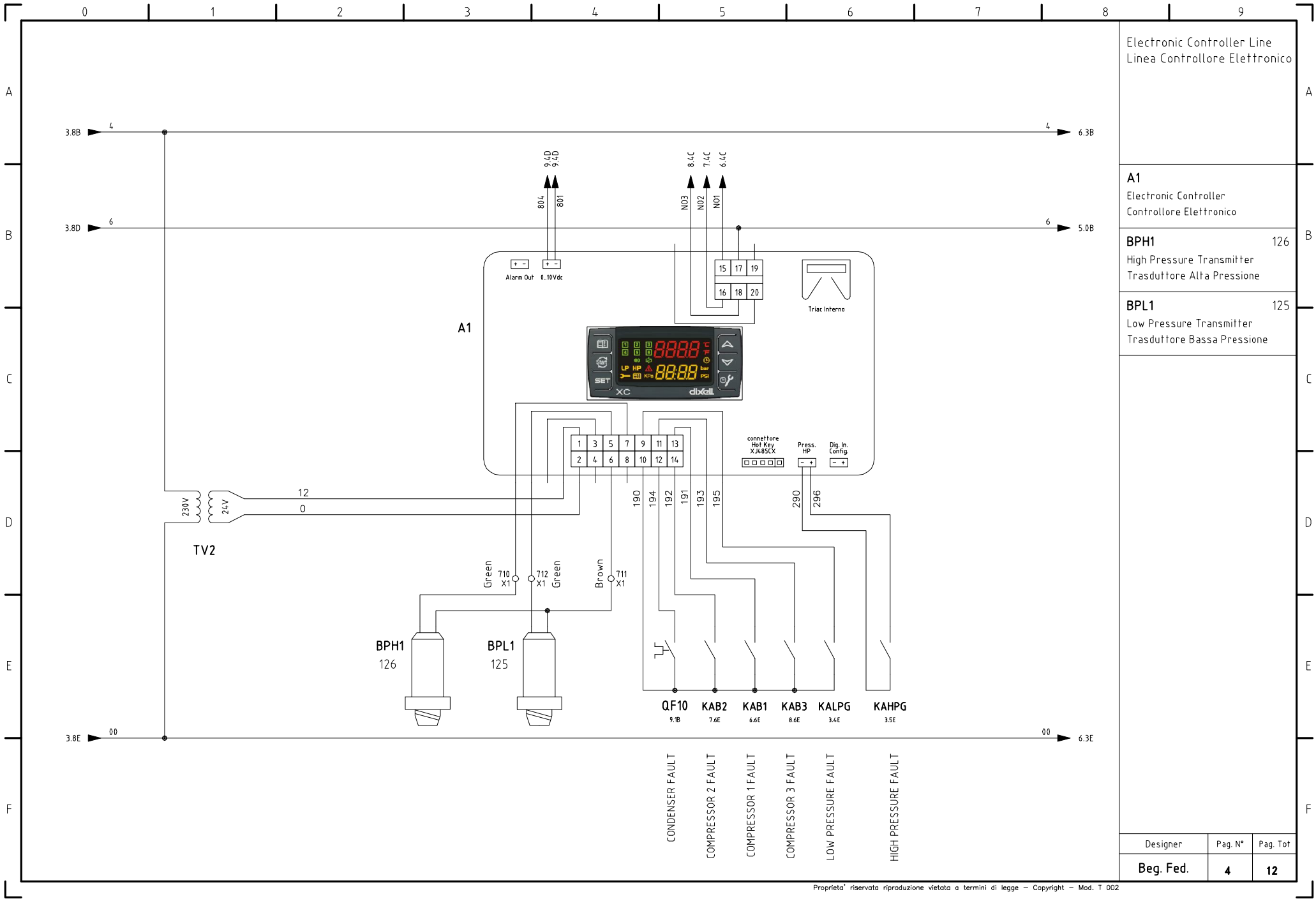
KALPG
Low Pressure Fault Relay
Relè Allarme Bassa Pressione

QF30
Control Phases Relay Protection
Protezione Relè Sequenza Fasi

SPHMG 65M
High Pressure Switch
Pressostato Alta Pressione

SPLG 63
Low Pressure Switch
Pressostato Bassa Pressione

Designer	Pag. N°	Pag. Tot
Beg. Fed.	3	12



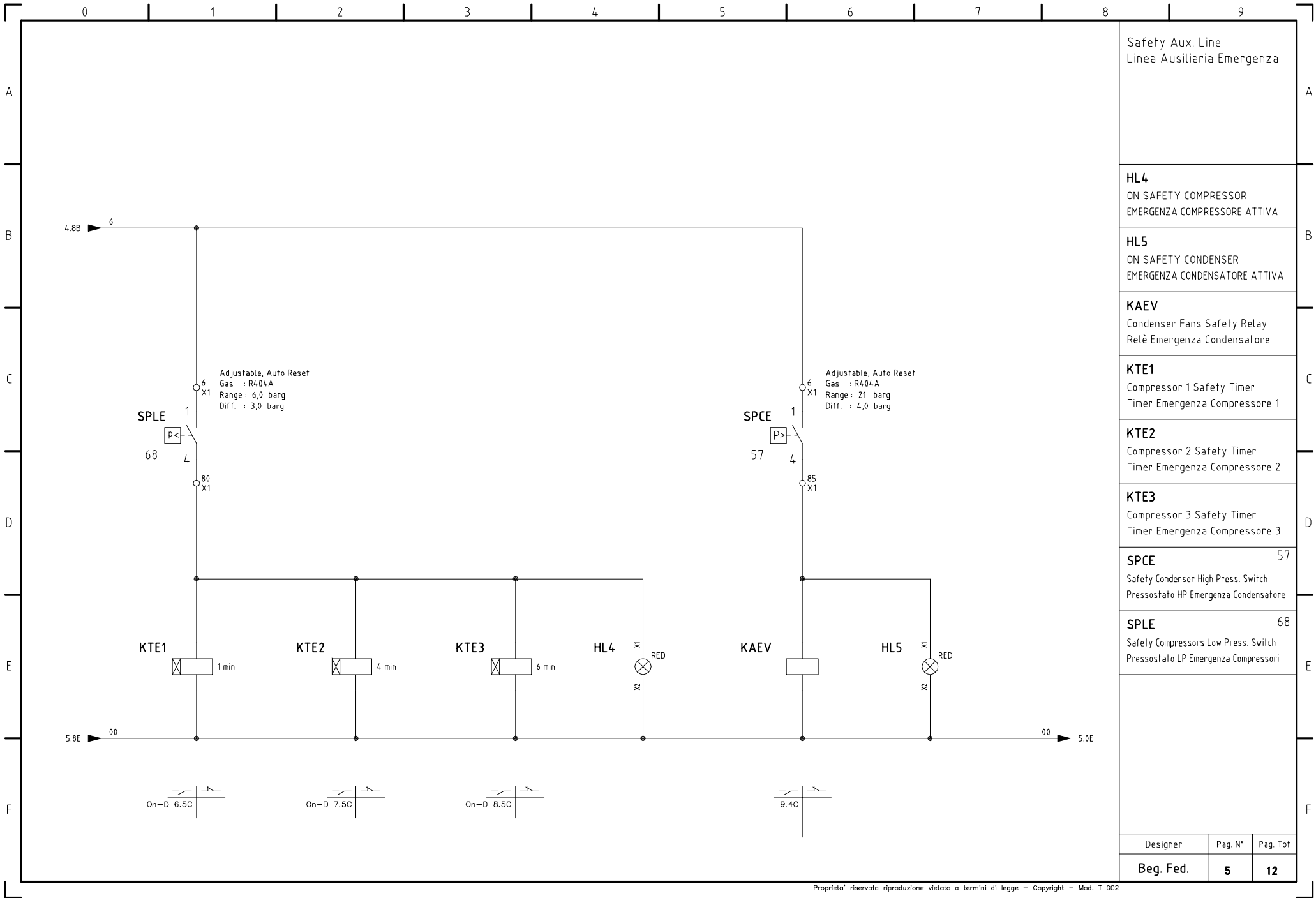
Electronic Controller Line
Linea Controllore Elettronico

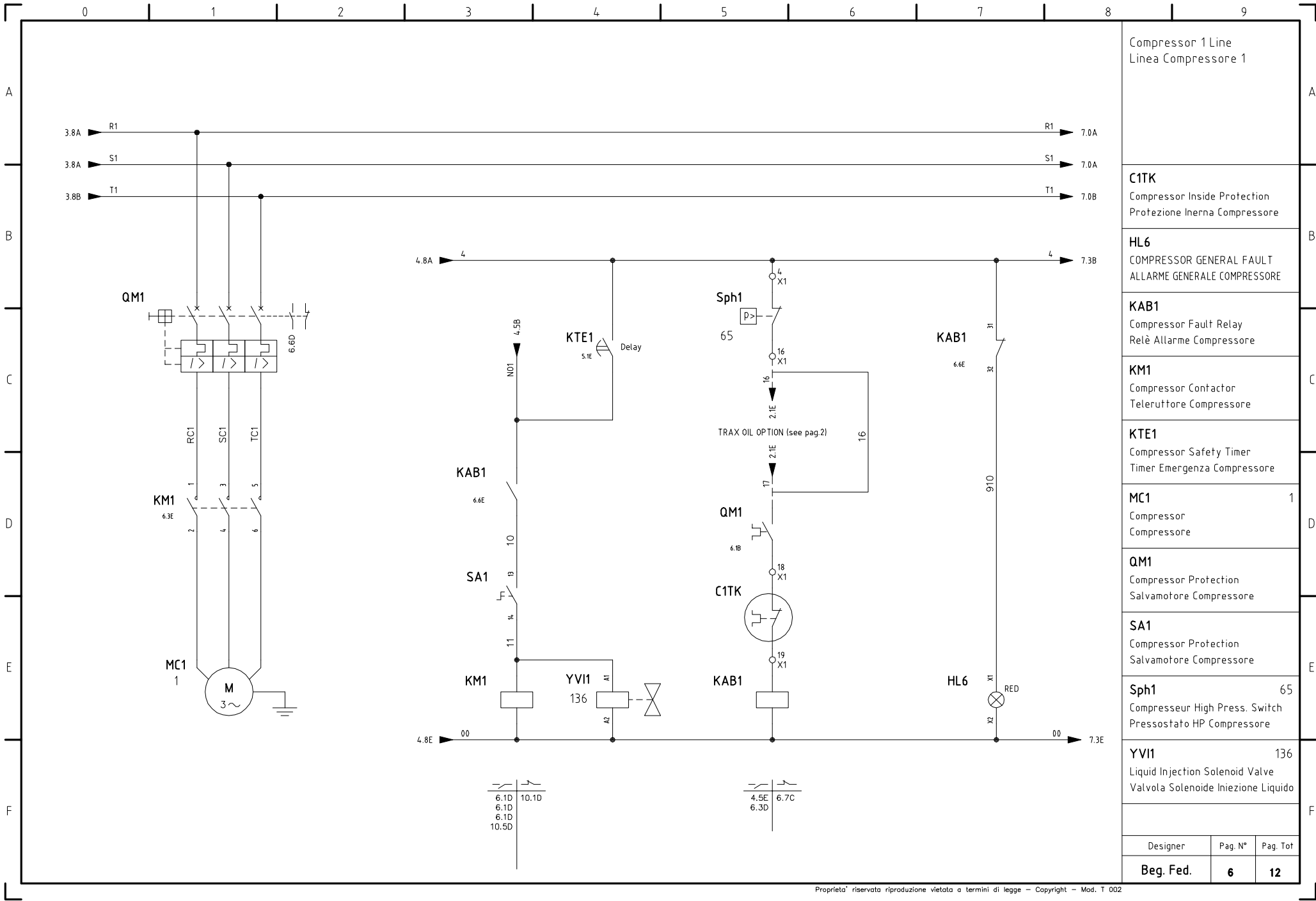
A1
Electronic Controller
Controllore Elettronico

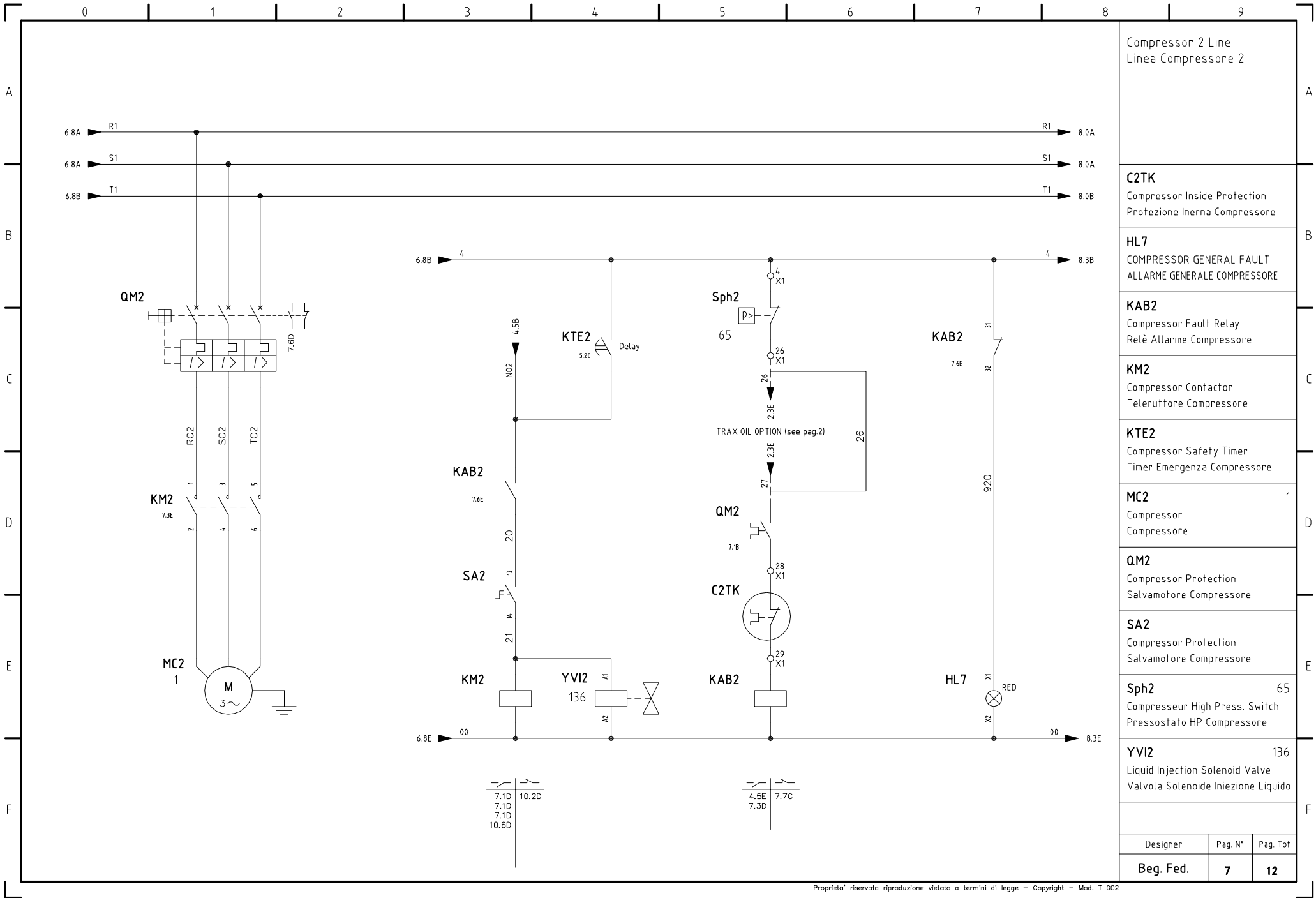
BPH1 126
High Pressure Transmitter
Trasduttore Alta Pressione

BPL1 125
Low Pressure Transmitter
Trasduttore Bassa Pressione

Designer	Pag. N°	Pag. Tot
Beg. Fed.	4	12







Compressor 2 Line
Linea Compressore 2

C2TK
Compressor Inside Protection
Protezione Interna Compressore

HL7
COMPRESSOR GENERAL FAULT
ALLARME GENERALE COMPRESSORE

KAB2
Compressor Fault Relay
Relè Allarme Compressore

KM2
Compressor Contactor
Teleruttore Compressore

KTE2
Compressor Safety Timer
Timer Emergenza Compressore

MC2 1
Compressor
Compressore

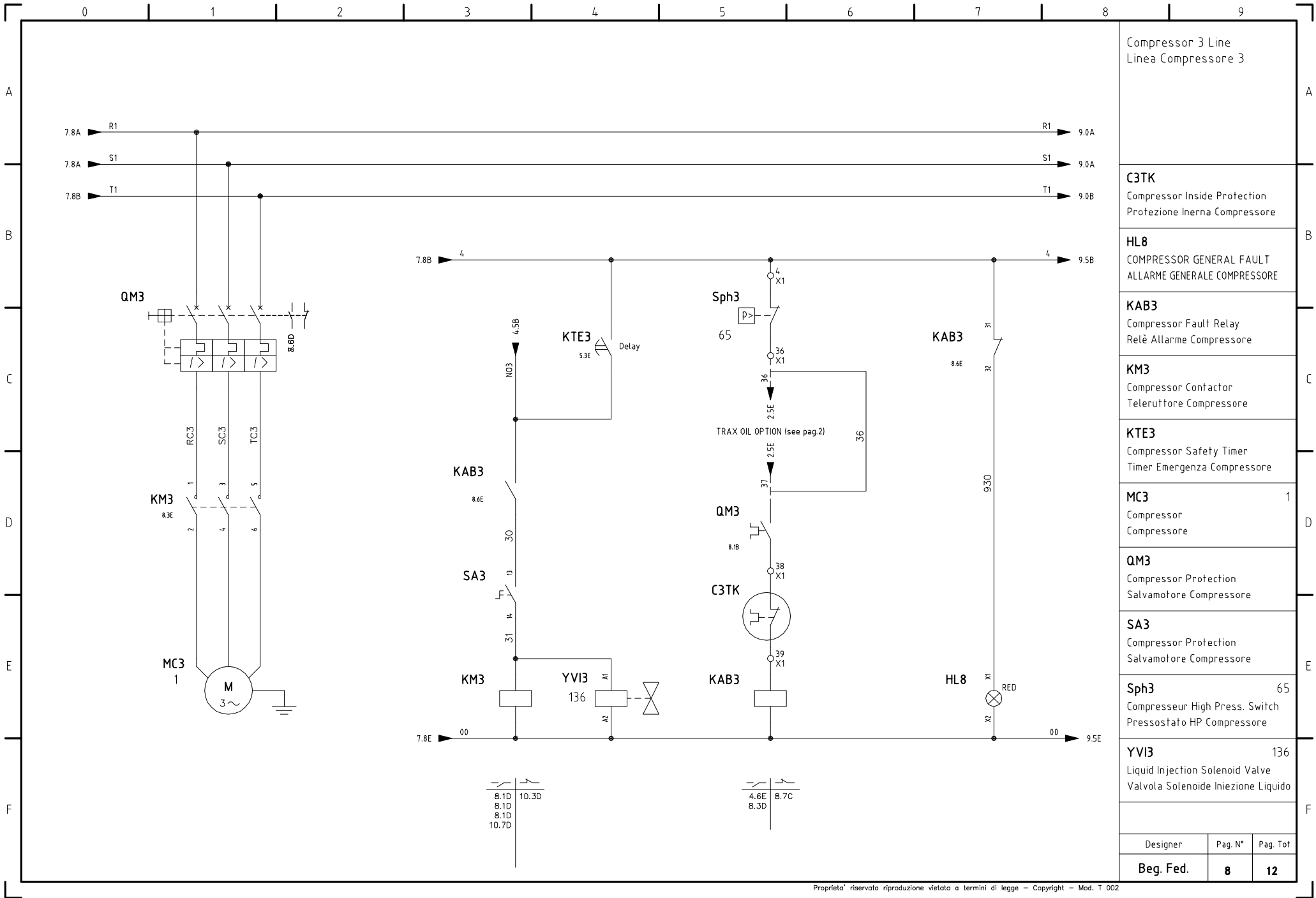
QM2
Compressor Protection
Salvatore Compressore

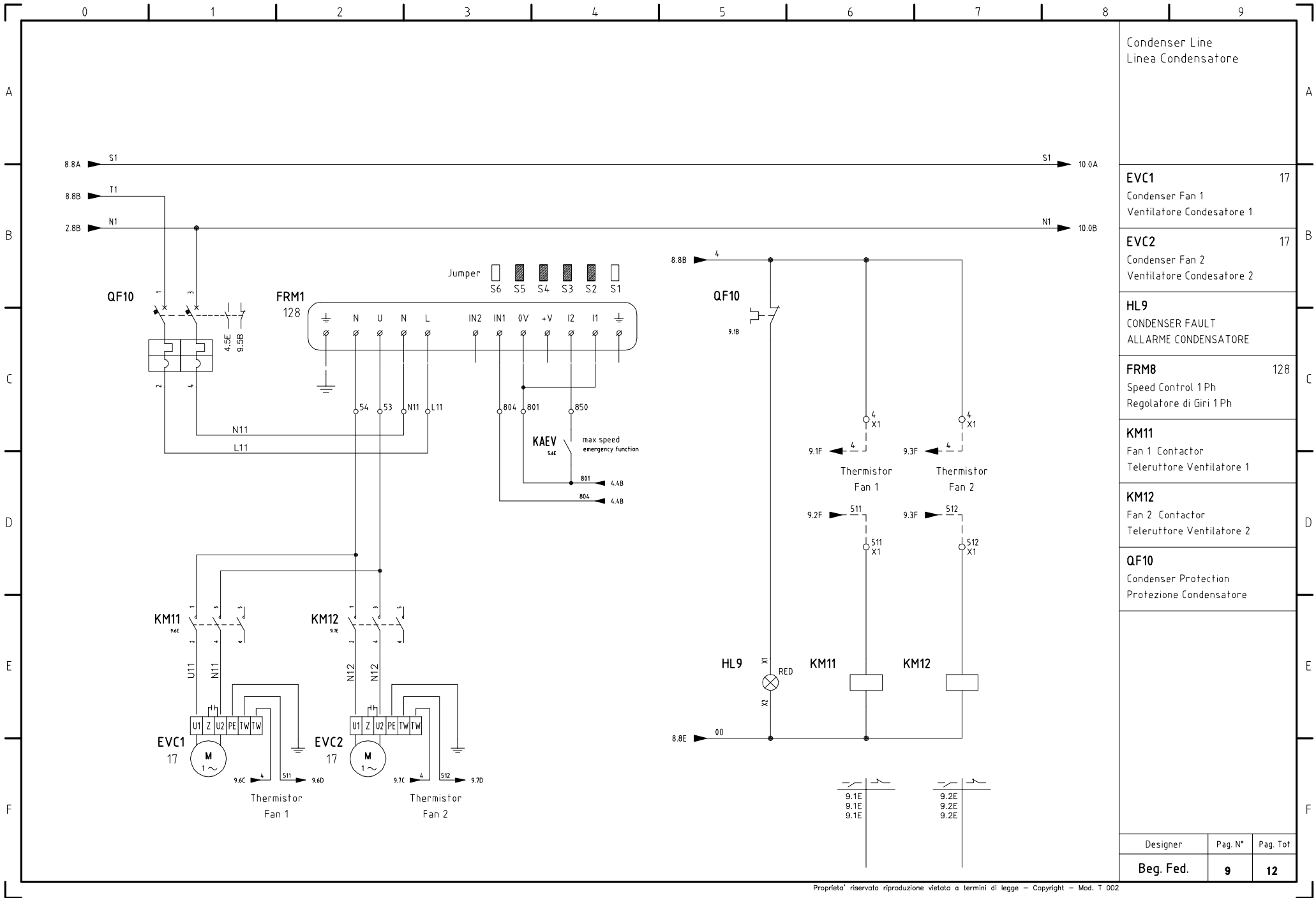
SA2
Compressor Protection
Salvatore Compressore

Sph2 65
Compressor High Press. Switch
Pressostato HP Compressore

YVI2 136
Liquid Injection Solenoid Valve
Valvola Solenoide Iniezione Liquido

Designer	Pag. N°	Pag. Tot
Beg. Fed.	7	12





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

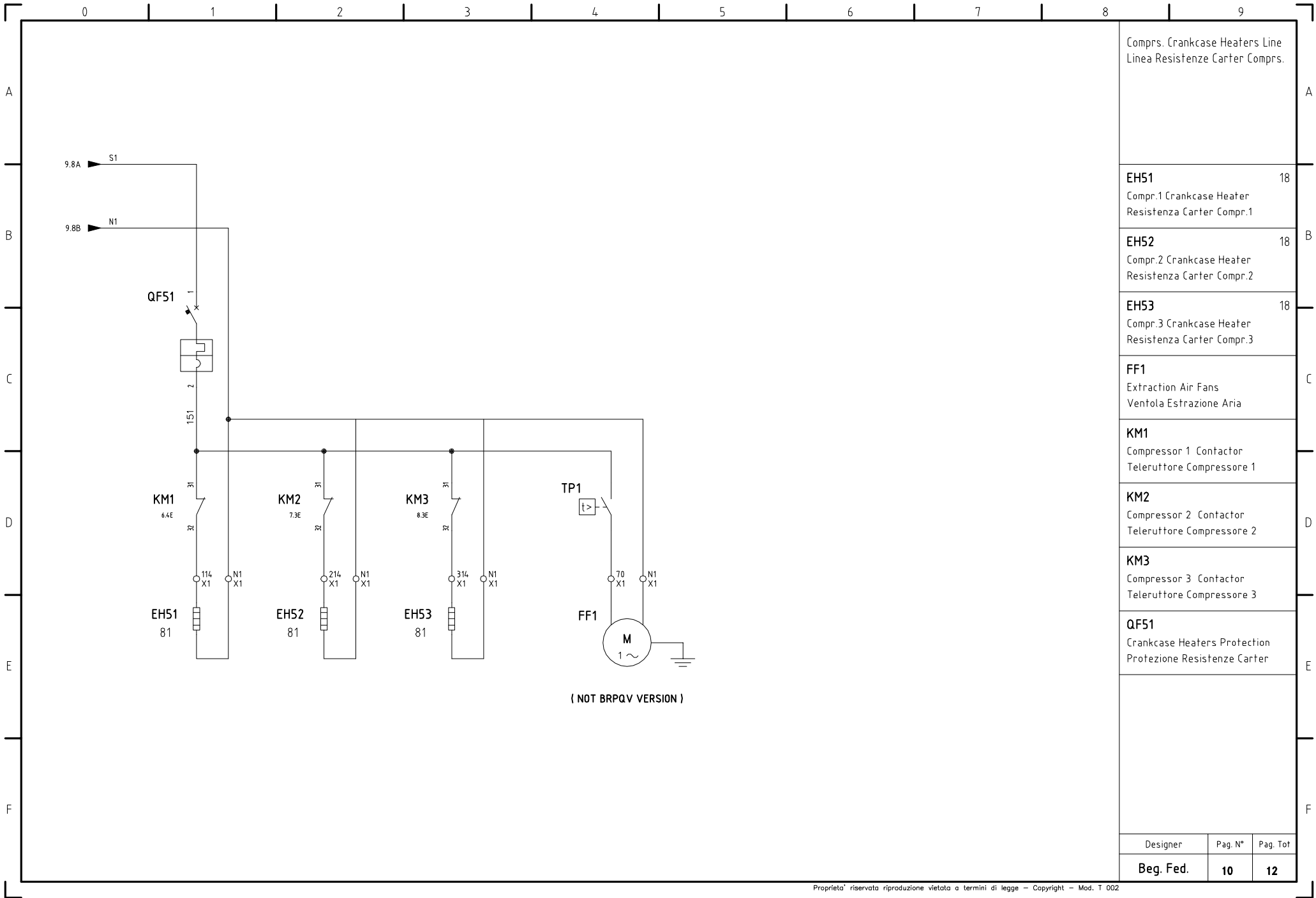
FRM8 128
Speed Control 1 Ph
Regolatore di Giri 1 Ph

KM11
Fan 1 Contactor
Teleruttore Ventilatore 1

KM12
Fan 2 Contactor
Teleruttore Ventilatore 2

QF10
Condenser Protection
Protezione Condensatore

Designer	Pag. N°	Pag. Tot
Beg. Fed.	9	12



Comprs. Crankcase Heaters Line
Linea Resistenze Carter Compr.

EH51 18
Compr.1 Crankcase Heater
Resistenza Carter Compr.1

EH52 18
Compr.2 Crankcase Heater
Resistenza Carter Compr.2

EH53 18
Compr.3 Crankcase Heater
Resistenza Carter Compr.3

FF1
Extraction Air Fans
Ventola Estrazione Aria

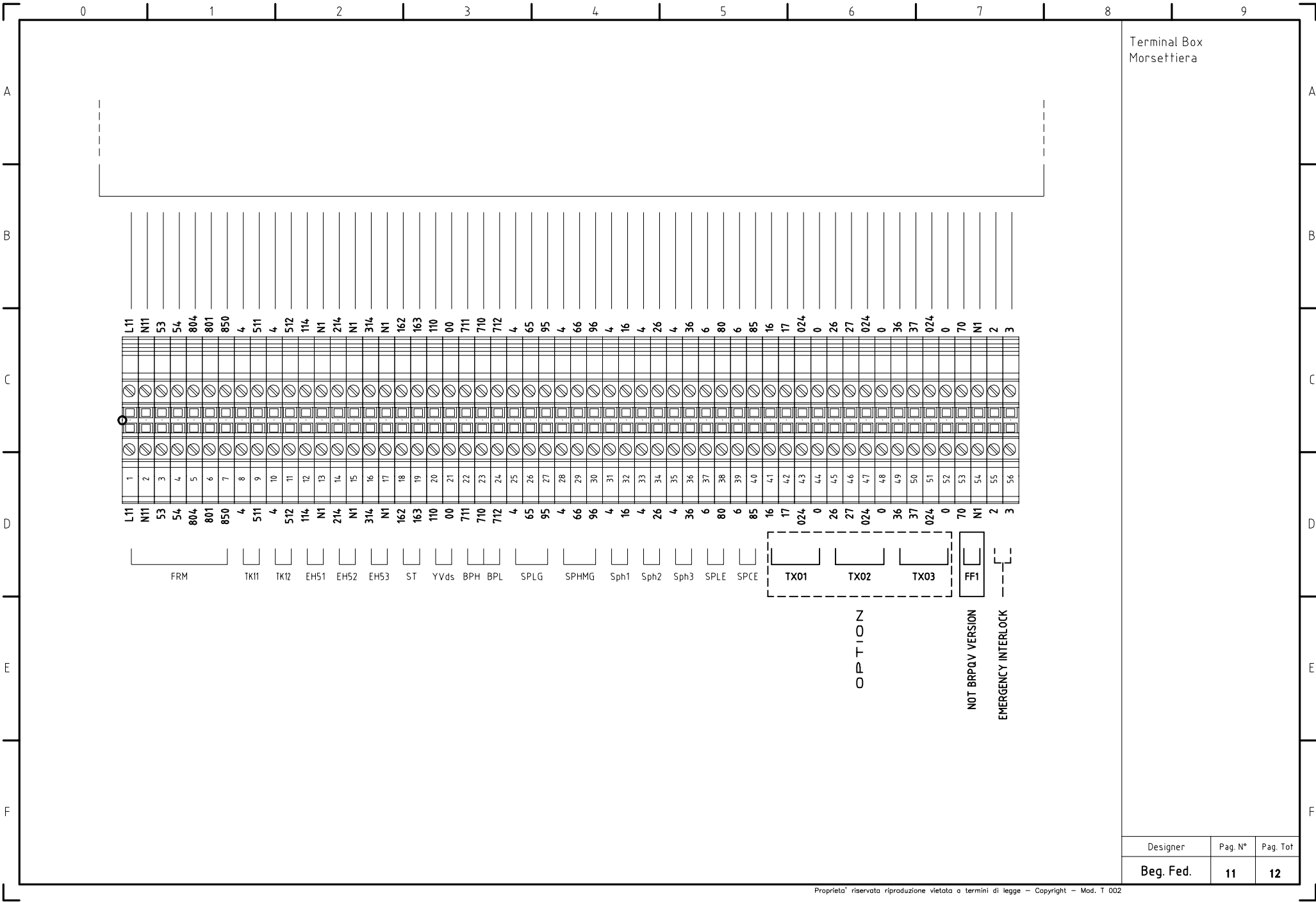
KM1
Compressor 1 Contactor
Teleruttore Compressore 1

KM2
Compressor 2 Contactor
Teleruttore Compressore 2

KM3
Compressor 3 Contactor
Teleruttore Compressore 3

QF51
Crankcase Heaters Protection
Protezione Resistenze Carter

Designer	Pag. N°	Pag. Tot
beg.fed.	10	12



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	Option ---->	Alco	2	Compressor 1 Electronic Oil Level
SLX2	Option ---->	Alco	2	Compressor 2 Electronic Oil Level
SLX3	Option ---->	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	Option ---->	Digital Scroll	4	Digital Scroll Unloading Valve

Designer	Pag. N°	Pag. Tot
Beg. Fed.	12	12