Stationary compressors: GA5-11C. Y-D starter - IEC - Mk IV with elektronikon I regulator

2003-05

AHB: Electrical diagram (9820 3598 01 ed. 02)

COMPRESSOR

A1 : dryer
M1 : compressor motor
M4 : fan motor (oil cooler)
M5 : fan motor (after cooler)
PT20 : press. transducer delivery air
TSR : temp. switch oil cooler
TT11 : temp. sensor element outlet
TT90 : temp. sensor LAT Dryer (Full feature)
Y1 : solenoid valve

[1] :cable solenoid valve to cubicle
[2] :cable temperature sensor to cubicle
[3] :cable press. transducer to cubicle
[4] :cable temp. sensor dryer to cubicle
[5] :cable supply EWD
[6] :cable solenoid valve for modulating control
[7] :cable temp. switch oil cooler
[8] :cable press. switch to cubicle

STARTER CUBICLE

E1 : compressor control module
F1-10: fuses
F21 : overload relay compressor motor
K2 : contactor aftercooler
K11 : aux. contactor dryer
K21 : line contactor
K22 : star contactor
K23 : delta contactor
S1' : remote START/Pr.STOP
S3 : emergency stop
S3' : emergency stop remote
T1-2 :transformer
T3 : transformer ID dryer
1X0 : terminal strip (supply)
1X1 : terminal strip (motor)
1X2 : terminal strip (dryer)
1X3 : terminal strip (earth)
1X4 : terminal strip (230V/AC)
1X6 : terminal strip (elektronikon 24V/DC)
1X7 : terminal strip (potential free contacts)
1X8 : terminal strip (options & signals)

COMPRESSOR CONTROL MODULE (E1)

K01 : blocking relay
K02 : aux. relay star contactor
K03 : aux. relay delta contactor
K04 : aux. relay load/unload
K05 : aux. relay dryer control
K06 : aux. relay general shutdown

Ⓘ : start
◉ : programmed stop

NOTES

[a] Maximum fuses with regard to short circuit protection of starter. Cable section might impose fuses of smaller value.

[b] Power supply to be connected for:
Counter clockwise rotation of compressor motor
Rotation to be observed while facing the drive end shaft of the motors.
Rotation of fanmotor while facing the fan from the cooler.

[c] To connect correct trafo voltage, see on trafo.

[d] Optional remote emergency stop :
Replace bridge by NC contacts of remote emergency stop.

[f] Supply of dryer, oil cooler and aftercooler

[g] CAUTION : Remains 'LIVE' when the disconnecting device is in 'off' or 'open' position.

[i] To be replaced by alternative [1] if phase sequence is installed.

[j] Terminals 1X0-N and 1X2-N provided for 3x400V+N only

[k] To be replaced by alternative [2] if thermistor protection is installed

[l]

T1	230 V 50/60Hz F 4	120 V 50Hz F 4
100VA	0.5Amps	1 Amps

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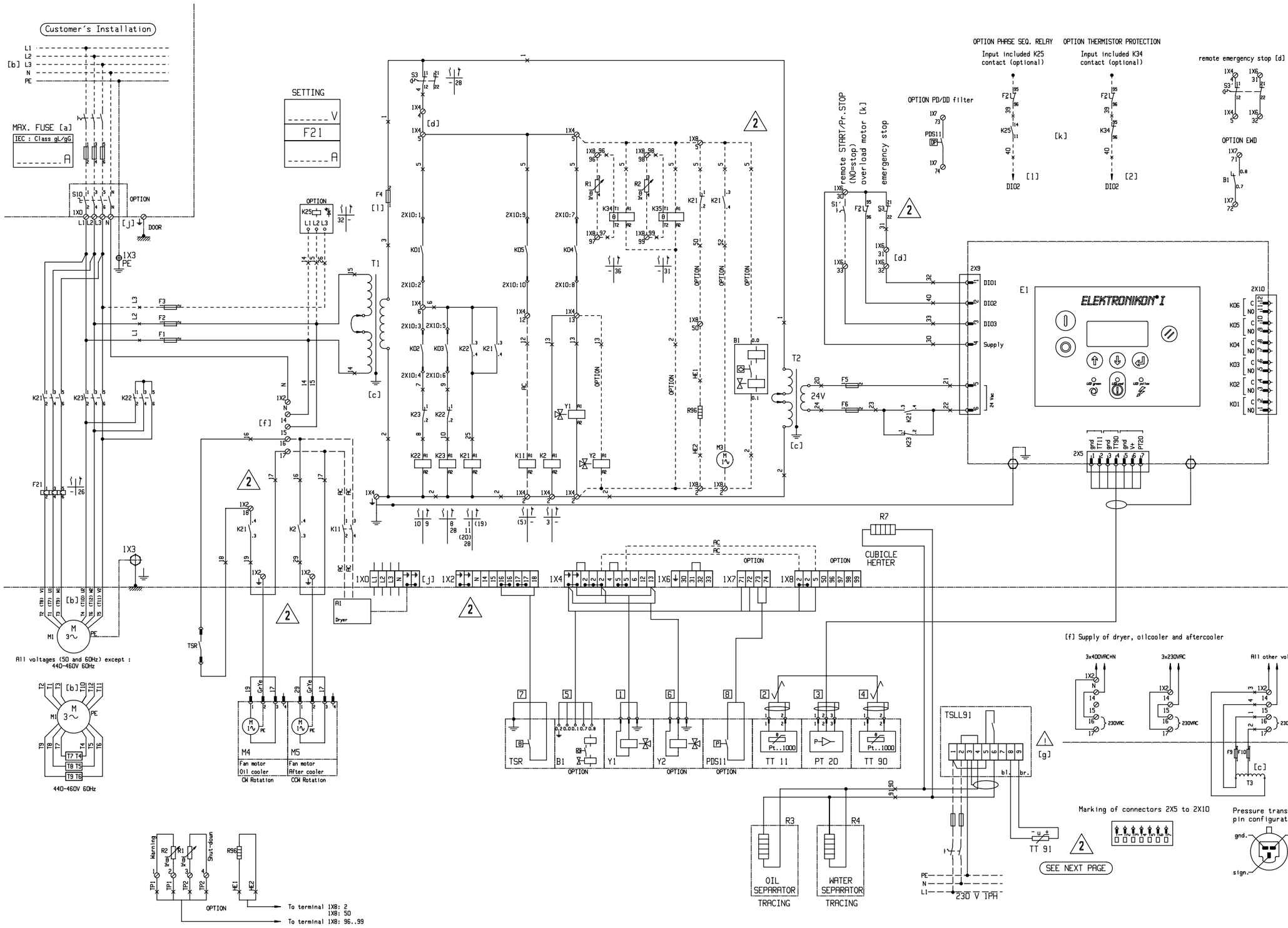
INSTALLED	OPTIONAL EQUIPMENT	Pos.Nr.
	B1 : Electronic water drain (EWD)	21
	K25 : phase sequence protection	4
	M3 : fan motor cubicle for HAV	20
	R3,R4,R7 : freeze protection (tracing/heaters)	23-24-27
	TSLL91 : thermostat freeze protection	31
	R1,K34 : Drive motor thermistor protection, shutdown	15
	R2,K35 : Drive motor thermistor protection, warning	17
	R96 : anti-condensation heaters	1-20
	Y2 : solenoid valve for modulating control	15
	S10 : Main switch	L1-L2-L3
	PDS11: Delta P-switch for integrated DD/PD filter	21-29



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