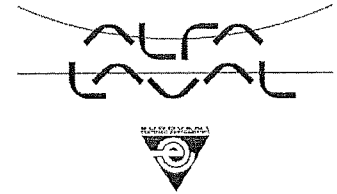


DROGE KOELER- 50 Hz



Datum 15-5-2013
 Klant
 Referentie

Bedrijfsconditie	Glycol/Water	Type	Alfa V	Model	VDDS803BY48 BST
Type Berekening	Design				
Benodigde Capaciteit	361.00 kW		Marge		1.7 %
Berekende capaciteit	367.26 kW		Hoogte (N.A.P.)		0 m

Dimensions***

Lengte	4250 mm	Dry weight (approx. +/-5%)	1342 kg
Hoogte	2210 mm		
Diepte	2230 mm		
Verpakking	No Packing	Shipping Volume	22.0 m ³

Thermische gegevens

Luchttemperatuur	32.0 °C / 43.6 °C		
Vloeistof	Prop.glycol 30.0 %	Fluid temperature in/out	49.0 °C / 43.0 °C
Vloeistofdebiet	15.7 l/s	Fluid pressure drop	42.8 kPa
Vriespunt	-13.5 °C		

Ventilator data

Luchtdebiet:	28.12 m ³ /s	Aantal ventilatoren	6
		Ventilator diameter	800.0 mm
Toerental	690 rpm	Spanning	400V
Nominal Power	6900 W	Voeding	3ph
Nominal current ⁽²⁾	13.2 A	Connection	Y
FLC	15.8A		
Sound Pressure Level (40.0 m) ⁽¹⁾		31 dB(A)	
Sound Power Level		77 dB(A)	

Blok data

Pijp materiaal	Copper	Lamel materiaal	SWR ALMG 2.5
Lamel afstand	2.1 mm	Aantal circuits	2x48
Oppervlak	1441.4 m ²	Inhoud	125.5 litres
Aansluitingen (in/uit)	2xDN65 - 2xDN65	ConnectionSide	Same

Behuizing & Omkasting

Materiaal omkasting	Galvanized steel painted
Coil frame material	Aluzinc

Opmerkingen

⁽¹⁾ Bij het gebruik van de EN 13487

⁽²⁾ Nom. Stroom bij Tlucht=20°C. Variaties treden op bij een ander voltage of luchttemperatuur

(***) Dimension and weight are not valid for all possible options.

BST control panel (dual row)

BST = Basic Signal Fan Step Control Temperature

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ALFA LAVAL S.p.A.
Via delle Albere
36040 - Alonte (VI) ITALY



BOARD RATED VALUE

VOLTAGE DC	---
VOLTAGE AC	400 Vac ± 10%
FREQUENCY	50 - 60 Hz ± 2%
POWER MAX	79 KW
SHORT CURRENT (Icc)	100 KA
IP DEGREE WITH CLOSED DOORS	IP54
IP DEGREE WITH OPEN DOORS	IP20

COLOURS WIRES (EN60204-1)

USE	COLOUR	VOLT	SIGLE
POWER	BLACK	230 - 400 V	BK
NEUTRAL	BLUE	230 V	BL
PE CIRCUIT	GREEN-YELLOW	--	GV
AUXILIARY	RED	24 - 230 V	RD
EXT.CONNECTION	ORANGE	250 Vmax	OR

DRAWING: SMXC202.2

REVIEW:

DATA_REV-B

0 1 2 3 4
CLIENT: ALFA LAVAL

29/12/2011



















www.alfalaval.com
Via delle Albere 5
36045 Alonte (VI)

DESCRIPTION: INTRODUCTION

DATA: 18/06/2008
SHEET: 1
NEXT_SHEET: 2
DESIGNER:

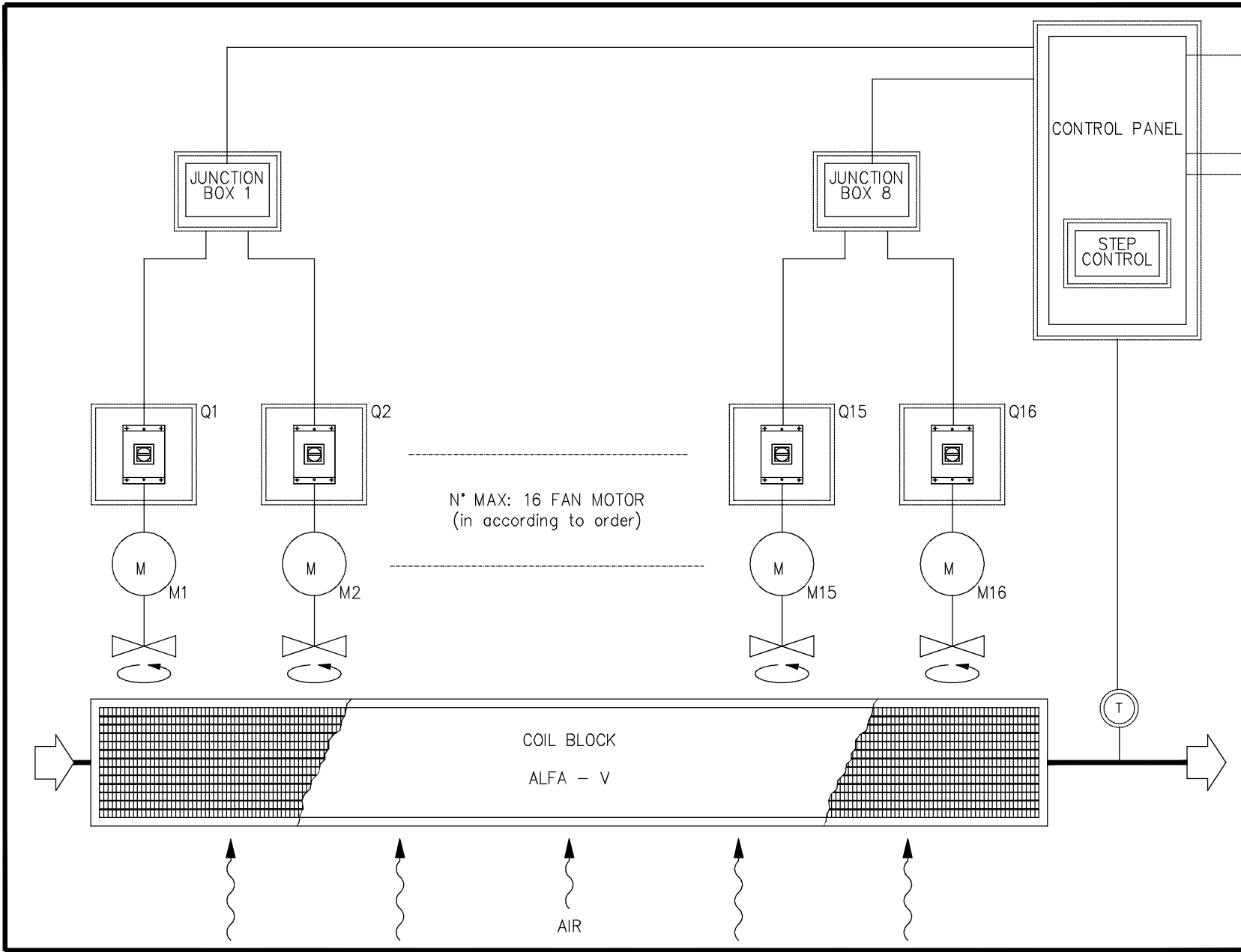
JOB_ORDER: VTWR0303

	Main switch		Two-motion selector
	Contactor		Cooling fan
	Fuse-carrier		Heater
	Transformer		Signal lamp
	Normally open contact (N.O.)		Motor
	Normally closed contact (N.C.)		
	Break contact delayed when the device containing the contact is being deactivated		
	thermal Klicson		
	On delay relay		
	Relay operating device		
	Push-button		

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<u>PAGE</u>	<u>SUBJECT OF SHEET</u>
1	INTRODUCTION
2	LEGEND
3	PAGE LIST
4	ELECTRICAL SYSTEM LAYOUT
5	WIRING DIAGRAM
6	WIRING DIAGRAM
7	WIRING DIAGRAM
8	WIRING DIAGRAM
9	WIRING DIAGRAM
10	WIRING DIAGRAM
11	TERMINAL STRIP
12	DIMENSIONAL DRAWING
13	TECHNICAL DESCRIPTION

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Main power supply
Remote signal All fans running
Remote signal Fans overload (option)

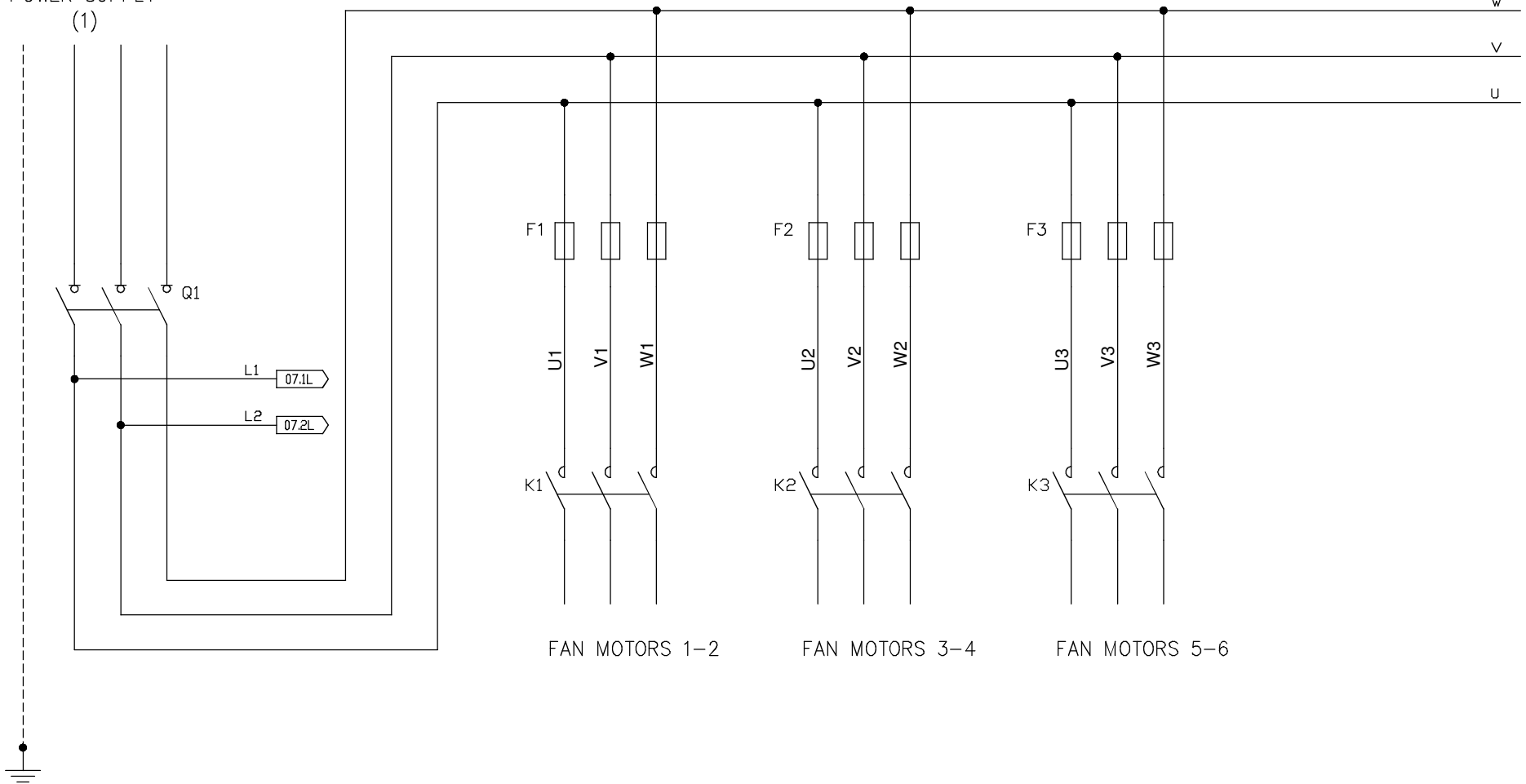
N° MAX: 16 FAN MOTOR
(in according to order)

COIL BLOCK
ALFA - V

- Key List:
- Unit
 - Optional Alfa Laval delivery
 - Customer Supply
 - Supply in according to order

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POWER SUPPLY
(1)



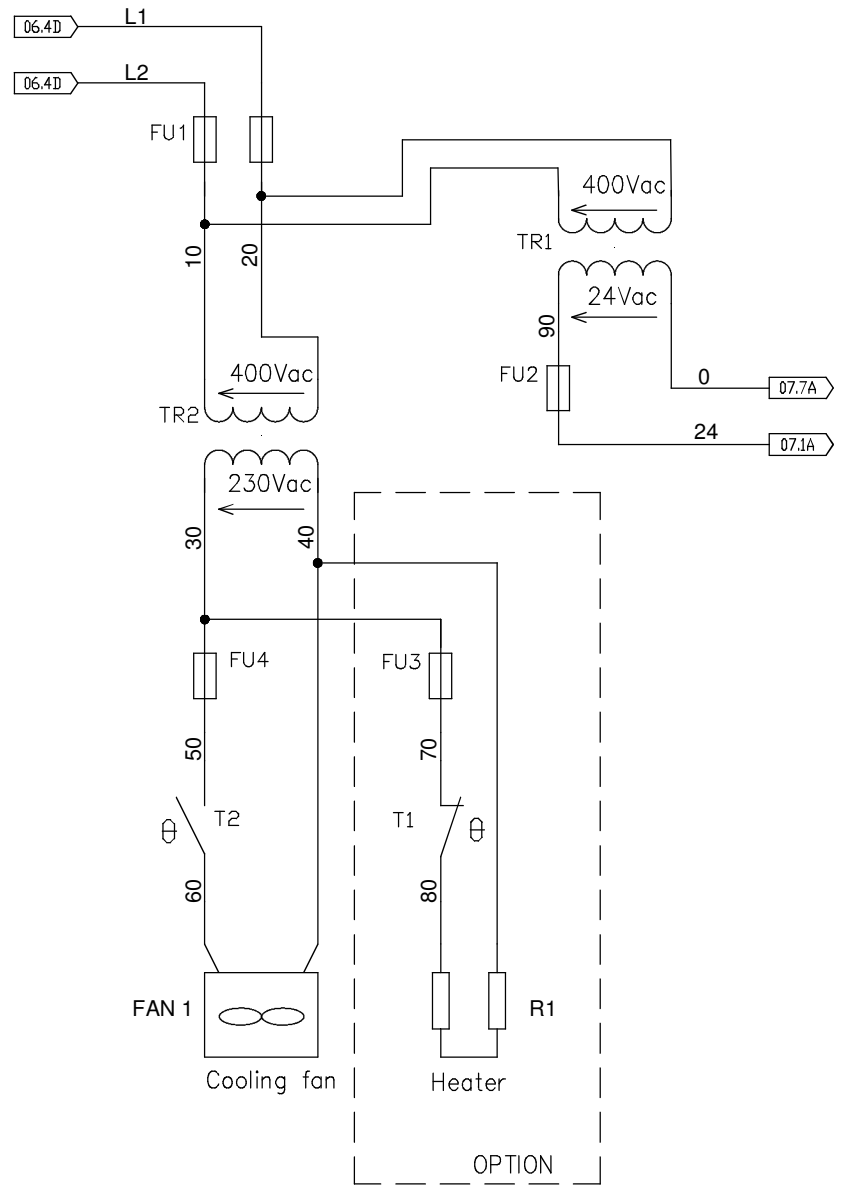
FAN MOTORS 1-2 FAN MOTORS 3-4 FAN MOTORS 5-6

(1) CABLE SHEATHING OF THE LINE IS NOT INCLUDED

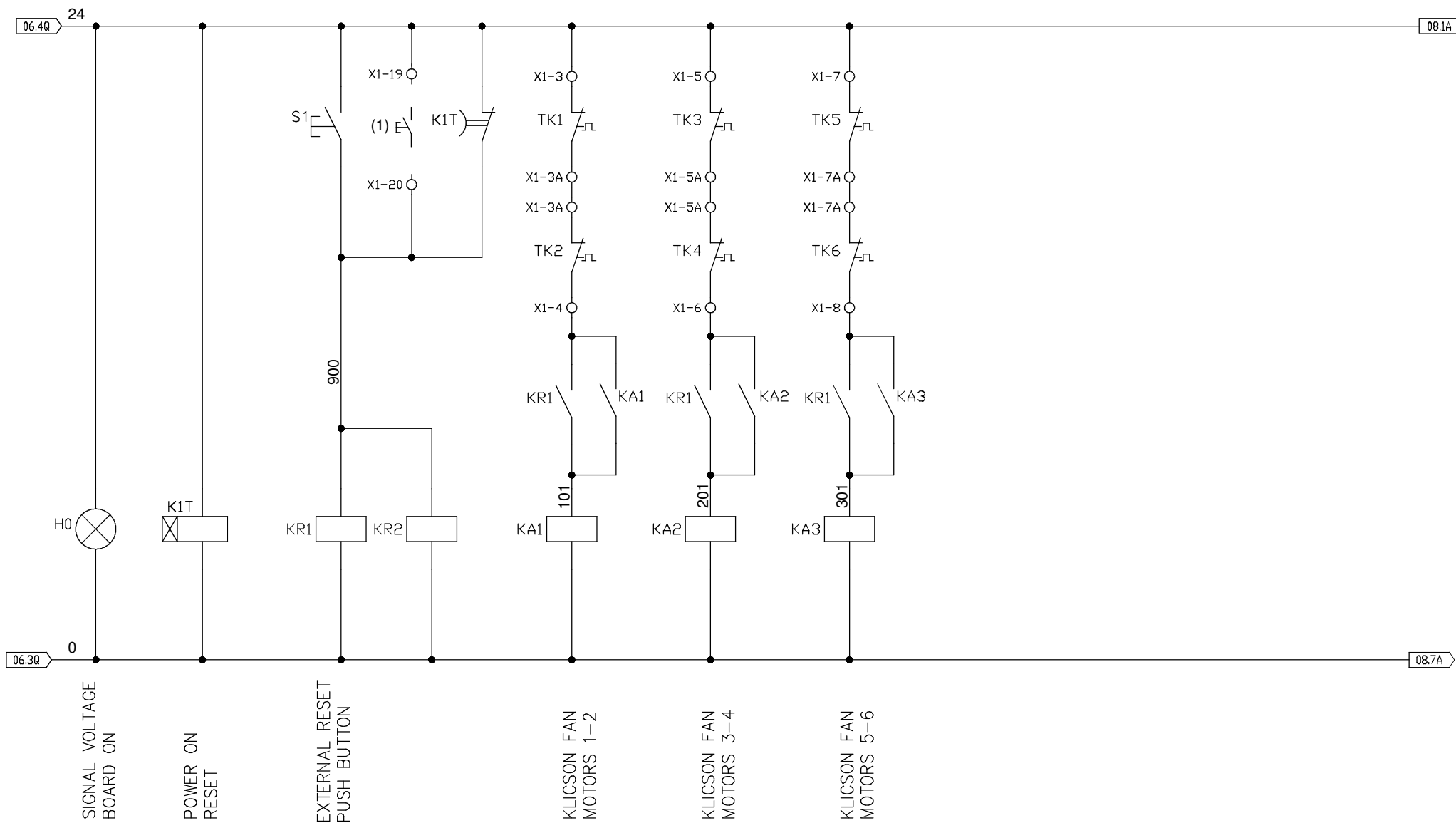
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File: ALFA_LAVAL CAD: AL126	DRAWING: SMXC202.2	REVIEW: 0 1 2 3 4	DATA_REV-B 29/12/2011		www.alfalaval.com Via delle Albere 5 36045 Alonte (VI)	DESCRIPTION: WIRING DIAGRAM	DATA: 18/06/2008
	JOB_ORDER: VTWR0303	CLIENT: ALFA LAVAL	SHEET: 5				NEXT_SHEET: 6

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BASIC FAN STEP CONTROL CONFIGURATION WITH REMOTE SIGNALS (BST)



(1) REMOTE RESET PUSH-BUTTON (TO CONNECT IF REQUIRED)

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File:
ALFA_LAVAl
CAD:
AL126

DRAWING: SMXC202.2
JOB_ORDER: VTWR0303

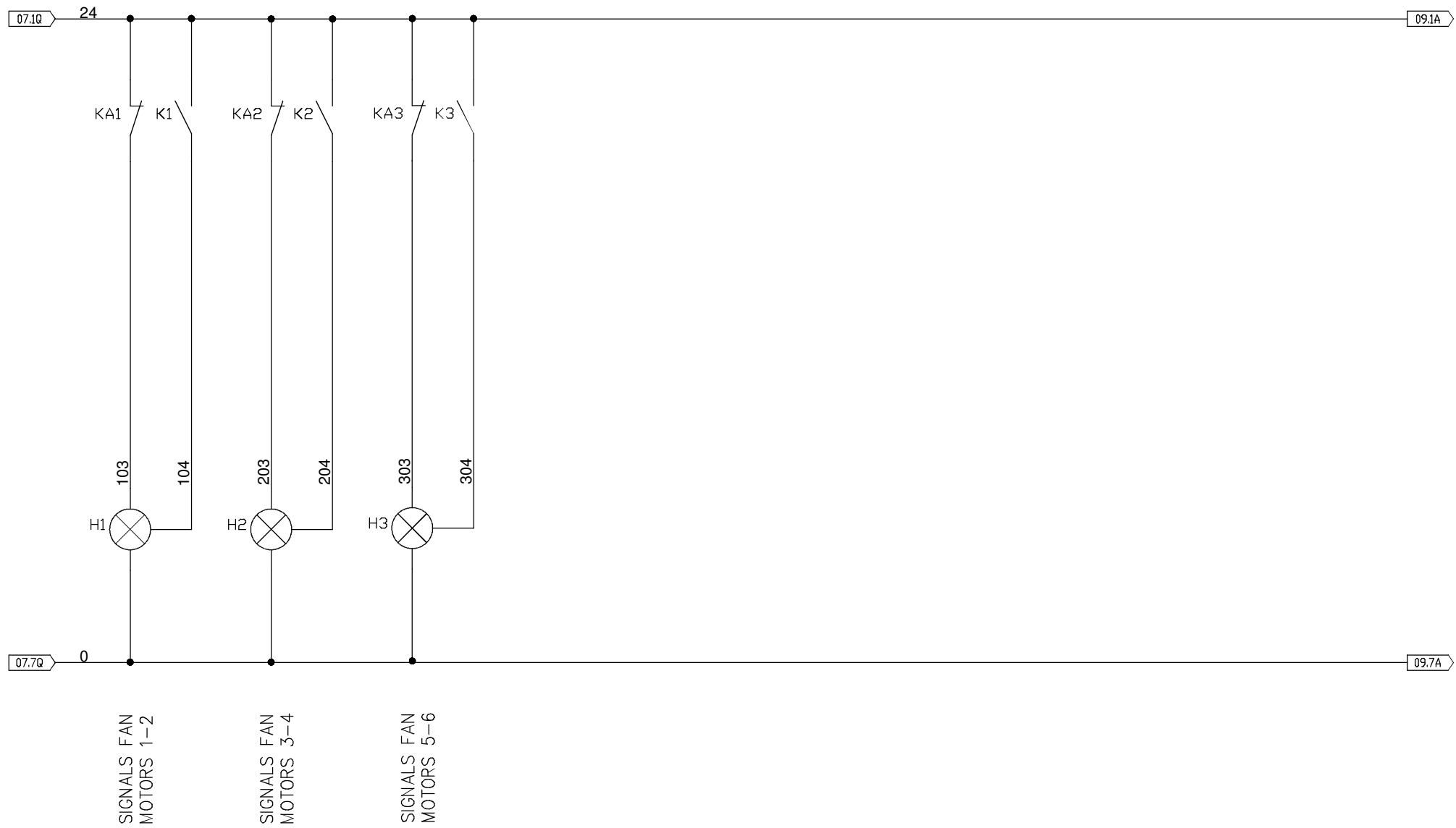
REVIEW:
DATA_REV-B
29/12/2011
CLIENT: ALFA LAVAL



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36045 Alonte (VI)

DESCRIPTION:
WIRING DIAGRAM


DATA: 18/06/2008
SHEET: 7
NEXT_SHEET: 8
DESIGNER:



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File:	ALFA_LAVAL
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DRAWING:	SMXC202.2
JOB_ORDER:	VTWR0303

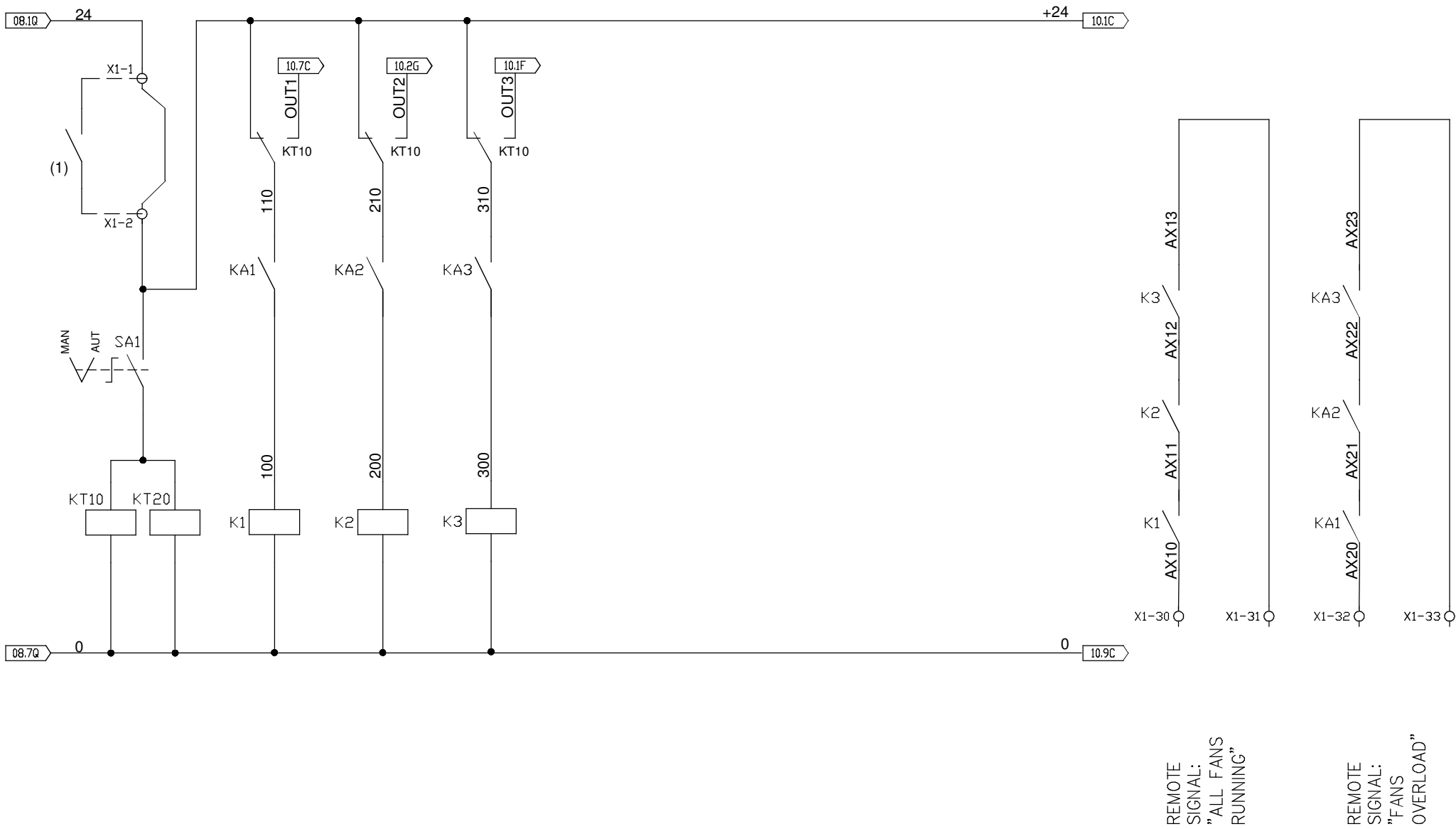
REVIEW:	DATA_REV-B
0 1 2 3 4	29/12/2011
CLIENT:	ALFA LAVAL



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DESCRIPTION:	WIRING DIAGRAM
--------------	----------------

DATA:	18/06/2008
SHEET:	8
NEXT_SHEET:	9
DESIGNER:	




(1) REMOVE JUMPER WHEN YOU NEED REMOTE START / STOP

File: ALFA_LAVAL
 CAD: AL126
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DRAWING:	SMXC202.2
JOB_ORDER:	VTWR0303

REVIEW:	DATA_REV-B								
0	1	2	3	4					
CLIENT:	ALFA LAVAL								
	29/12/2011								



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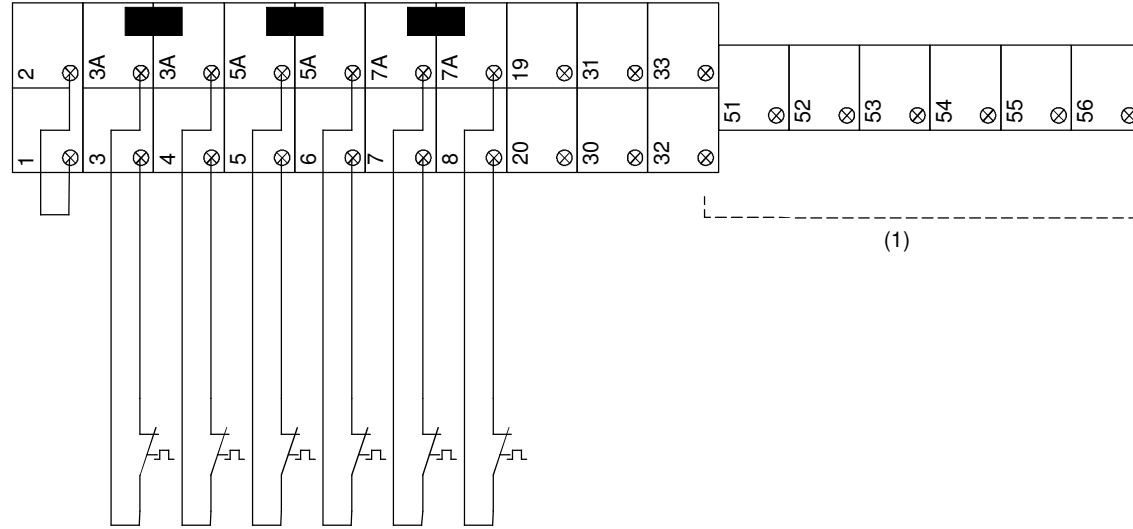
DESCRIPTION:	WIRING DIAGRAM	
--------------	----------------	--

DATA:	18/06/2008
SHEET:	9
NEXT_SHEET:	10
DESIGNER:	

0
1
2
3
4
5
6
7
8
9

SERIES : ALFA BLUE

AUXILIARY TERMINALS



REMOTE
START / STOP

KLICSON FAN MOTOR 1

KLICSON FAN MOTOR 2

KLICSON FAN MOTOR 3

KLICSON FAN MOTOR 4

KLICSON FAN MOTOR 5

KLICSON FAN MOTOR 6

EXTERNAL RESET
PUSH BUTTON

REMOTE SIGNALS:
"ALL FANS RUNNING"

REMOTE SIGNAL:
"FAN MOTORS OVERLOAD"

(1) TC1 CONNECTION

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File:
ALFA_LAVAL
CAD:
AL126

DRAWING: SMXC202.2
JOB_ORDER: VTWR0303

REVIEW:
0 1 2 3 4
CLIENT: ALFA LAVAL



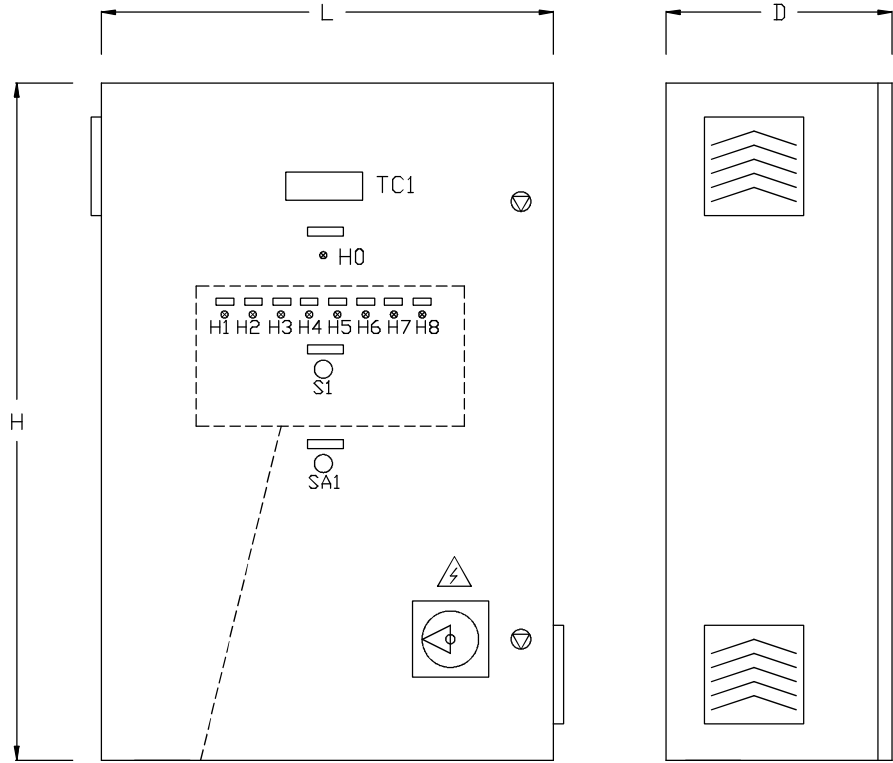
www.alfalaval.com
Via delle Albere 5
36045 Alonte (VI)

DESCRIPTION:
TERMINAL STRIP

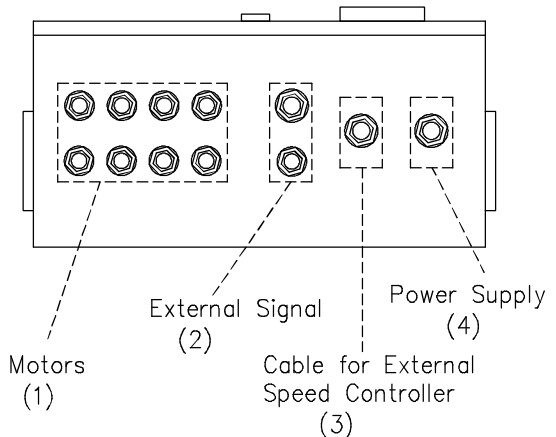
DATA: 18/06/2008
SHEET: 11
NEXT_SHEET: 12
DESIGNER:

SERIES : ALFA V

BOX TYPE : ABB GEMINI
 PROTECTION GRADE : IP54
 COLOR : RAL 7035
 WIRES IN : LOW
 STOUTNESS : IK10



Configuration BS



Control Panel Size	Fan motors configuration	H (mm)	L (mm)	D (mm)	(1) Cable Glands	(2) Cable Glands	(3) Cable Glands	(4) Cable Glands
3	2x2	700	460	260	M20x1,5	M25x1,5 M16x1,5	M25x1,5	M25x1,5
4	2x3 2x4	700	590	260	M20x1,5	M25x1,5 M16x1,5	M32x1,5	M32x1,5
5	2x5 2x6	855	590	360	M20x1,5	M25x1,5 M16x1,5	M40x1,5	M40x1,5
6	2x7 2x8	1005	840	360	M20x1,5	M25x1,5 M16x1,5	M40x1,5	M40x1,5

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FUSES SIZE

FANS CURRENT (A) (20°C ENVIRONMENT)	FUSE SIZE
0 – 0.5	2A gG
0.5 – 1	4A gG
1 – 2	6A gG
2 – 4	10A gG
4 – 6	16A gG
6 – 8	20A gG
8 – 12	25A gG
12 – 15	32A gG

0
1
2
3
4
5
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7
8
9

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