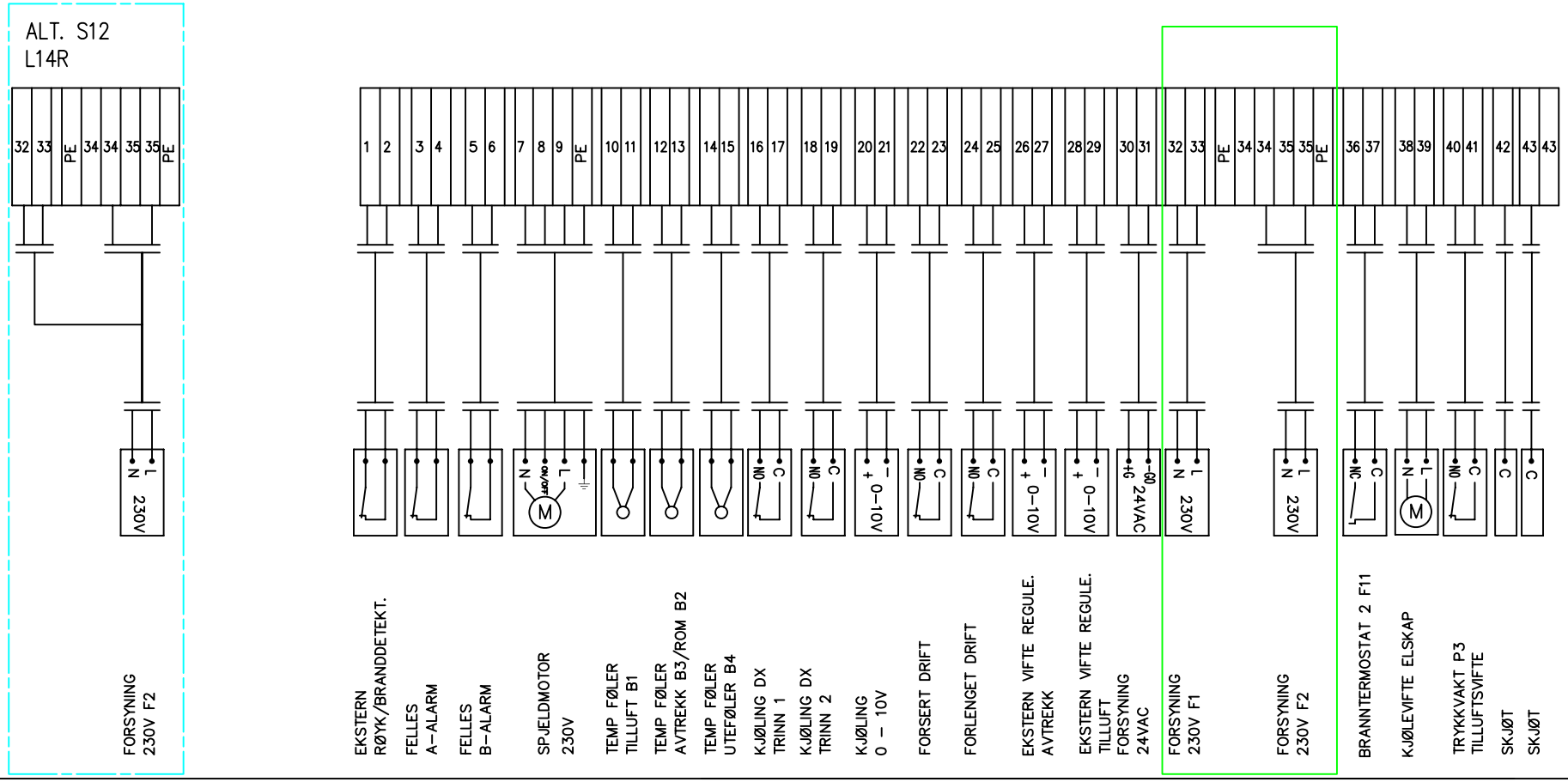
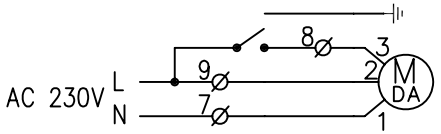
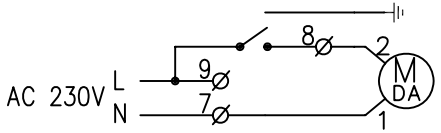


TILKOBLING SPJELD

ALT. 1



ALT. 2



Changes	Symb.	Date/Sign.
TEGNING ENDRET 2007-10-25/LA	2	
TEGNING ENDRET 2005-08-23/LA	1	

No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.

Date	Drawn	Projection	Scale
10.02.04	T. I. Engen		
Checked	Appr.		

FLEXIT®

REKKEKLEMMESKJEMA CS 1000
EL.BATTERI
ART.NR.:93510

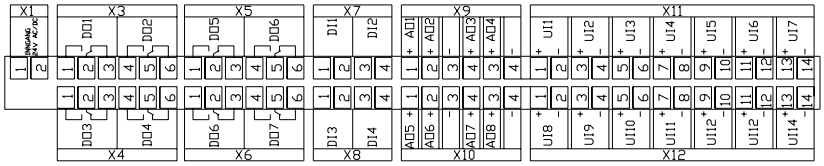
Replaces:	Replaced by:
342075	Side:

TILKOBLING TERMINAL OG KOMPONENTER

CS1000 IO	Funksjon	IO Type	Tilkobling CS1000	Tilkobling komponenter
Rele utgang				
DO1	Pumpe (vannbatteri)/ Varme trinn 2 (el.batteri)	Digital	X3 (Pin 1,2)	X:35, X:40 X:41, K2-A1
DO2	Varme trinn 3 (el.batteri)	Digital	X3 (Pin 4,5)	
DO3	Vifte start/stopp-intern	Digital	X4 (Pin 1,2)	X:43, G0*
DO4	Ute spjeld	Digital	X4 (Pin 4,5)	X:8, X:35
DO5	Kjøling DX trinn1	Digital	X5 (Pin 1,2)	X:16, X:17
DO6	Kjøing DX trinn2	Digital	X5 (Pin 4,5)	X:18, X:19
DO7	Alarm utgang prioritet A	Digital	X6 (Pin 1,2)	X:3, X:4
DO8	Alarm utgang prioritet B	Digital	X6 (Pin 4,5)	X:5, X:6
Analog utgang				
AO1	Kjøling	Analog (0 - 10V)	X9 (Pin 1,3)	X:20, G0
AO2	Ettervarme full range vannbatteri	Analog (0 - 10V)	X9 (Pin 2,3)	X:36, G0
AO3	Puls med Modulering 0 eller 10V (ON/OFF)	Analog (0/10VDC)	X9 (Pin 4,6)	X:SSR1-2 A1, G0
AO4	Rotor Vekslerspjeld	Analog (0 - 10 V)	X9 (Pin 5,6)	SP1500(X:33), G0 Spjeld led.3, G0
AO5	Tilluftsvifte.	Analog (0 - 10 V)	X10 (Pin 1,3)	VifteTil X:4, G0**
AO6	Avtrekksvifte.	Analog (0 - 10 V)	X10 (Pin 2,3)	VifteAvtr X:4, G0**
AO7	Luftmengde indikering avtrekk	Analog (0 - 10 V)	X10 (Pin 4,6)	
AO8	Luftmengde indikering tilluft	Analog (0 - 10 V)	X10 (Pin 5,6)	
Binary inngang				
DI1	Plateveksler: Termostat (el.batteri) Rotor: Rotor alarm	Digital	X7 (Pin 1,2)	Termostat F20 SP1500X:42,SP1500X:43
DI2	Alarm ekstern brann/røyk	Digital	X7 (Pin 3,4)	X:1, X:2
DI3	Alarm vifte tilluft/avtrekk	Digital	X8 (Pin1,2)	VifteAvtX:NO,VifteTilX:NO***
DI4	Ekstern start/stopp	Digital	X8 (Pin 3,4)	
Universal inngang				
UI1	Avtrekk/rom temperatur	Passive (Ni 1000)	X11 (Pin 1,2)	X:12, X:13
UI2	Tilluftstemperature	Passive (Ni 1000)	X11 (Pin 3,4)	X:10, X:11
UI3	Utetemperature	Passive (Ni 1000)	X11 (Pin 5,6)	X14, X:15
UI4	Ekstern sensor Avtrekk (trykk eller CO2)	Analog (0 - 10 V)	X11 (Pin 7,8)	X:26, G0
UI5	Ekstern sensor Tilluft (trykk eller CO2)	Analog (0 - 10 V)	X11 (Pin 9,10)	X:28, G0
UI6	Plateveksler: Frost/is sensor Rotor: Termostat el.batteri	Analog	X11(Pin11,12)	Termovakt Termostat F20
UI7	Tom		X11(Pin13,14)	
UI8	Filtervakt tilluft	Analog (0 – 10 V)	X12(Pin 1,2)	Filtervakt P1, G0
UI9	Filtervakt avtrekk	Analog (0 – 10 V)	X12(Pin 3,4)	Filtervakt P2, G0
UI10	Intern sensor Tilluft (trykk/luftmengde)	Analog (0 – 10 V)	X12(Pin 5,6)	Sensor P11, G0
UI11	Intern sensor Avtrekk (trykk/luftmengde)	Analog (0 – 10 V)	X12(Pin 7,8)	Sensor P12, G0
UI12	Forsert drift	Digital	X12(Pin 9,10)	X:22, X:23
UI13	Forlenget drift	Digital	X12(Pin11,12)	X:24, X:25
UI14	Termostat el.batteri Frost/is sensor vannbatteri	Digital Passive (Ni 1000)	X12(Pin13,14)	Thermostat F10 Temperatur sensor B5

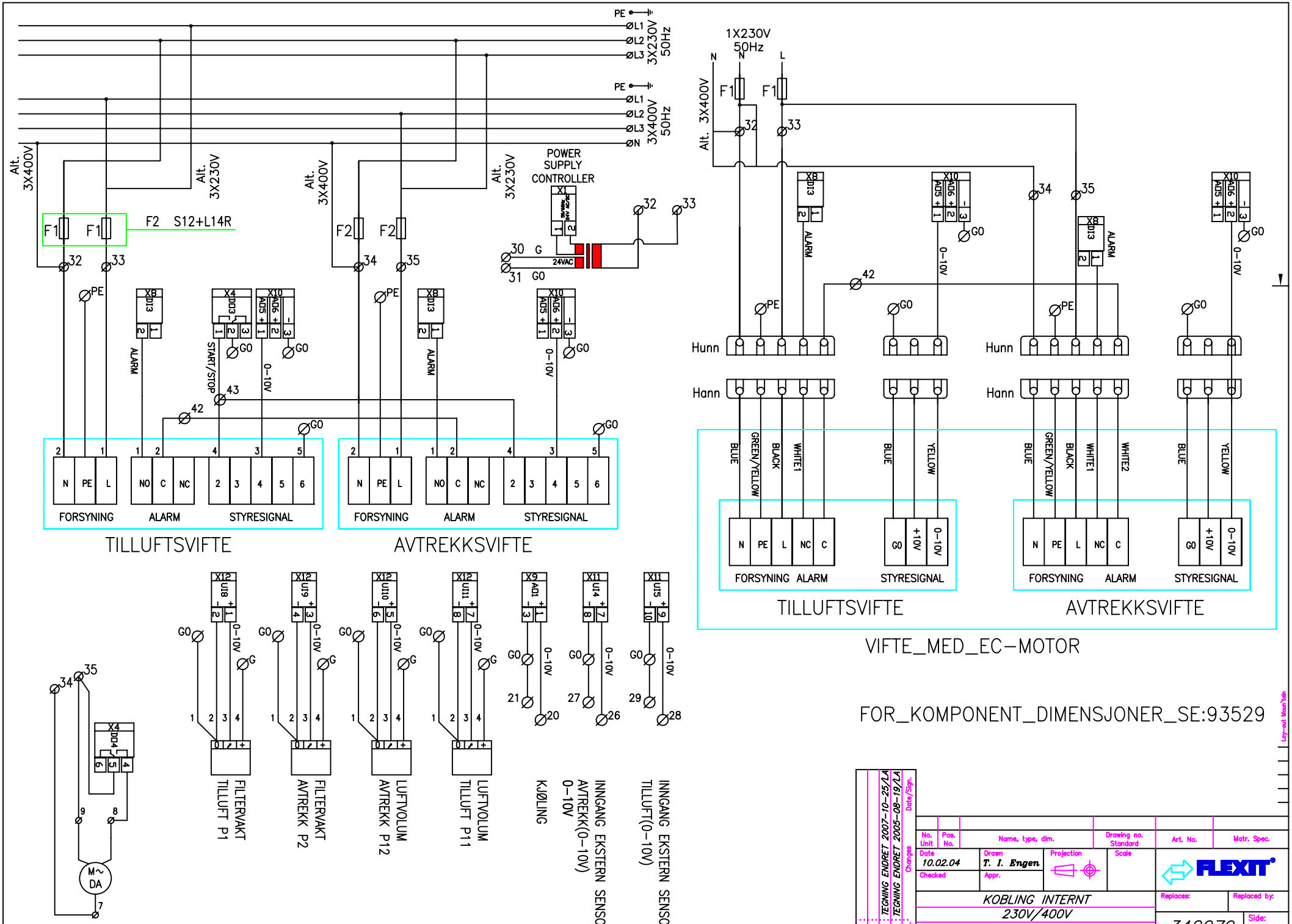
* Ikke I bruk ved ekstern frekvensomformer (L50)
** Med ekstern frekvensomformer (L50) : X:10(Pin1,3) Tillufts-omformer AI2, G0
X:10(Pin2,3) Avtrekks-omformer AI2, G0
*** With external converter (L50): X8(Pin1,2) Avtrekks-omformer R1C, Tillufts-omformer R1C

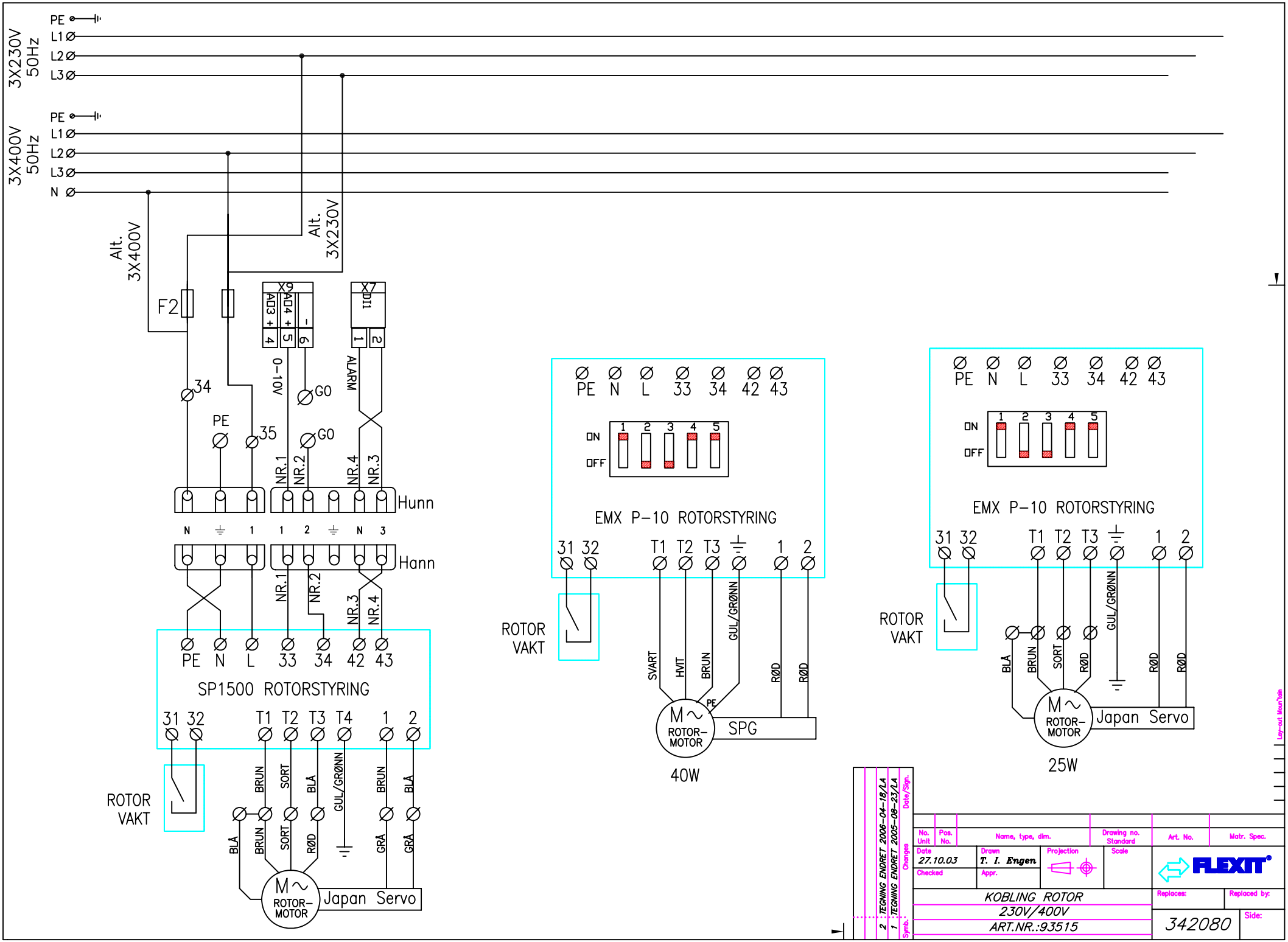
Ark.nr:	2/6 - Norsk
Teg.nr:	342077
Art.nr:	93512
Dato:	10.03.04
Versjon:	1.1



Farge kode interne ledninger
Colour code - Internal wiring

L1 1~ (N)	230V	Blå (lys)	Blue (light)	BU	
L2 1~	230V	Svart	Black	BK	
24V AC (G)	Led 1 +	Rød	Red	RD	
Zero (0-point) G0	Led 2 -	Hvit	White	WH	
24V DC	Led 1 +	Blå (mørk)	Blue (dark)	BU	
Zero (0-point) G0	Led 2 -	Hvit	White	WH	
0-10V DC		Grå	Grey	GY	
Pot.free signal		Grå	Grey	GY	
G0 (0-point) from	trafo 24V -				


PE
ØL1
ØL2
ØL3
3X230V 50Hz
ØN
3X400V 50Hz
Alt. 3X400V
Alt. 3X230V
POWER SUPPLY CONTROLLER
F1
F2
S12+L14R
24VAC
30 G
31 G0
32
33
34
35
42
43
START/STOP
ALARM
0-10V
G0
N
PE
L
NO
C
NC
FORSYNING
ALARM
STYRESIGNAL
TILLUFTSVIFTE
AVTREKKSVIFTE
1X230V 50Hz
Hunn
Hann
BLUE
GREEN/YELLOW
BLACK
WHITE1
WHITE2
YELLOW
+10V
VIFTE_MED_EC-MOTOR
FOR_KOMPONENT_DIMENSJONER_SE:93529
FILTERVAKT TILLUFT P1
FILTERVAKT AVTREKK P2
LUFTVOLUM AVTREKK P12
LUFTVOLUM TILLUFT P11
KJØLING
INNGANG EKSTERN SENSOR AVTREKK(0-10V)
INNGANG EKSTERN SENSOR TILLUFT(0-10V)
M~ DA
TEGNING ENDRET 2007-10-25/LA
TEGNING ENDRET 2005-08-19/LA
Changes
Date/Sign.
No. Unit
Pos. No.
Name, type, dim.
Drawing no. Standard
Art. No.
Matr. Spec.
Date 10.02.04
Drawn T. I. Engen
Projection
Scale
Checked
Appr.
FLEXIT
KOBLING INTERNT
230V/400V
ART.NR.:93514
Replaces:
Replaced by:
Side:
342079


3X230V 50Hz
PE
L1
L2
L3
3X400V 50Hz
PE
L1
L2
L3
N
Alt. 3X400V
Alt. 3X230V
F2
6X
AI3 +
AI4 +
-
4
5
6
7X
DI1
1
2
0-10V
GO
ALARM
34
PE
35
GO
NR.1
NR.2
NR.4
NR.3
Hunn
N
1
1
2
N
3
Hann
NR.1
NR.2
NR.3
NR.4
PE N L 33 34 42 43
SP1500 ROTORSTYRING
31 32
T1 T2 T3 T4
1 2
ROTOR VAKT
BRUN
SORT
BLÅ
GUL/GRØNN
BRUN
BLÅ
BLÅ
BRUN
SORT
RØD
GRÅ
GRÅ
M~
ROTOR-MOTOR
Japan Servo
PE N L 33 34 42 43
ON
OFF
1 2 3 4 5
EMX P-10 ROTORSTYRING
31 32
T1 T2 T3
1 2
ROTOR VAKT
SVART
HVIT
BRUN
GUL/GRØNN
PE
RØD
RØD
M~
ROTOR-MOTOR
SPG
40W
PE N L 33 34 42 43
ON
OFF
1 2 3 4 5
EMX P-10 ROTORSTYRING
31 32
T1 T2 T3
1 2
ROTOR VAKT
BLÅ
BRUN
SORT
RØD
GUL/GRØNN
RØD
RØD
M~
ROTOR-MOTOR
Japan Servo
25W
Date/Sign.
Changes
2 TEGNING ENDRET 2006-04-18/LA
1 TEGNING ENDRET 2005-08-23/LA
Symb.
No. Unit
Pos. No.
Name, type, dim.
Drawing no. Standard
Art. No.
Matr. Spec.
Date 27.10.03
Drawn T. I. Engen
Projection
Scale
Checked
Appr.
FLEXIT
KOBLING ROTOR
230V/400V
ART.NR.:93515
Replaces:
Replaced by:
342080
Side:
Lay-out Keun'tain

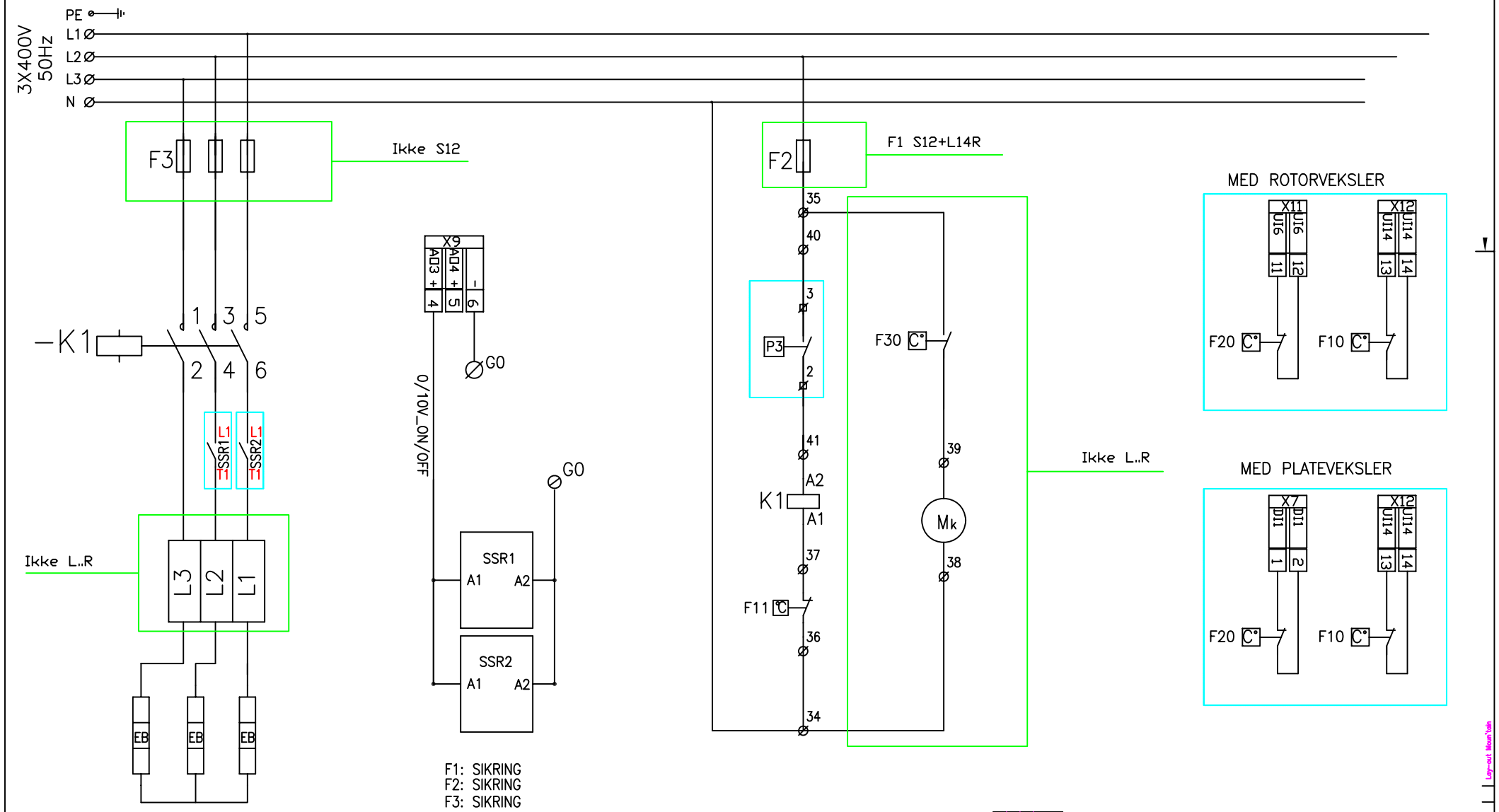
Elkomponentoversikt CS1000

93529/ 2008-01

Type	F1	F2	F3	F4	K1	K2	SSR	EB/stk	Tot kW
L20 XE 230 V	2*16	2*16	3*50		3*45		50	2500W	15kW
L20 XE 400 V	2*16		3*25		3*25		50	2500W	15kW
L20 XW 230 V	2*10	2*10							
L30 XE 230 V	2*16	2*16	3*32	3*32	3*32	3*32	50	3333W	20kW
L30 XE 400 V	2*16		3*32		3*25	3*25	50	3333W	20kW
L30 XW 230 V	2*10	2*10							
S20/30 E 230 V	2*16	2*16	3*50		3*45		50	2000/2500W	12/15kW
S20/30 E 400 V	2*16		3*25		3*45		50	2000/2500W	12/15kW
S20/30 W 230 V	2*16	2*16							
S20/30 W 400 V	2*16								
L14 RE 230V	2*10		3*10		3*25		25	1200W	3,6kW
L14 RE 400V	1*10		3*10		3*25		25	1200W	3,6kW
L14 RE 230V	2*10		3*10		3*25		25	600W	1,8kW
L14 RE 400V	1*10		3*10		3*25		25	600W	1,8kW
L14 RW 230V	2*10								
L20 RE 230V	2*10	2*10	3*16		3*25		25	2000W	6kW
L20 RE 400V	2*10		3*16		3*25		25	2000W	6kW
L20 RE 230V	2*10	2*10	3*16		3*25		25	1000W	3kW
L20 RE 400V	2*10		3*16		3*25		25	1000W	3kW
L20 RW 230V	2*10	2*10							
L20 RW 400V	2*10								
L40/30 RE 230V	2*16	2*16	3*32		3*45		75	2000W	12kW
L40/30 RE 400V	2*16		3*25		3*45		75	2000W	12kW
L40/30 RE 230V	2*16	2*16	3*25		3*45		75	2000W	6kW
L40/30 RE 400V	2*16		3*16		3*45		75	2000W	6kW
L40/30 RW 230V	2*16	2*16							
L40/30 RW 400V	2*16								
L50XE 230V	3*32	2*10	external	external	3*45	3*45	50	2833W	34kW
L50XE 400V	2*25	1*10	external	external	3*45	3*45	50	2833W	34kW
L50XW 230V	3*32	2*10							
L50XW 400V	2*25	1*10							
L60RE 230V	3*16	3*16	3*50		3*45		75	2500W	15kW
L60RE 400V	3*16	3*16	3*25		3*45		75	2500W	15kW
L60RE 230V	3*16	3*16	3*25		3*45		75	2500W	7,5kW
L60RE 400V	3*16	3*16	3*16		3*45		75	2500W	7,5kW
L60RW 230V	3*16	3*16							
L60RW 400V	3*16	3*16							

Elkomponentoversikt CS500

Type	F1	F2	F3	F4	K1	K2	SSR	EB/stk	Tot kW
S12XE 230V	2*10		external		3*20		25	2000W	6kW
S12XE 400V	1*10		external		3*20		25	2000W	6kW
S12XW 230V	2*10								
S12RE 230V	2*10		external		3*20		25	2000W	6kW
S12RE 400V	1*10		external		3*20		25	2000W	6kW
S12RW 230V	2*10								
L14 RE 230V	2*10		3*10		3*25		25	1200W	3,6kW
L14 RE 400V	1*10		3*10		3*25		25	1200W	3,6kW
L14 RE 230V	2*10		3*10		3*25		25	600W	1,8kW
L14 RE 400V	1*10		3*10		3*25		25	600W	1,8kW
L14 RW 230V	2*10								
L20 RE 230V	2*10	2*10	3*16		3*25		25	2000W	6kW
L20 RE 400V	2*10		3*16		3*25		25	2000W	6kW
L20 RE 230V	2*10	2*10	3*16		3*25		25	1000W	3kW
L20 RE 400V	2*10		3*16		3*25		25	1000W	3kW
L20 RW 230V	2*10	2*10							
L20 RW 400V	2*10								
L40/30 RE 230V	2*16	2*16	3*32		3*45		75	2000W	12kW
L40/30 RE 400V	2*16		3*25		3*45		75	2000W	12kW
L40/30 RE 230V	2*16	2*16	3*25		3*45		75	2000W	6kW
L40/30 RE 400V	2*16		3*16		3*45		75	2000W	6kW
L40/30 RW 230V	2*16	2*16							
L40/30 RW 400V	2*16								
L60RE 230V	3*16	3*16	3*50		3*45		75	2500W	15kW
L60RE 400V	3*16	3*16	3*25		3*45		75	2500W	15kW
L60RE 230V	3*16	3*16	3*25		3*45		75	2500W	7,5kW
L60RE 400V	3*16	3*16	3*16		3*45		75	2500W	7,5kW
L60RW 230V	3*16	3*16							
L60RW 400V	3*16	3*16							



F1: SIKRING
F2: SIKRING
F3: SIKRING
EB: ELEMENT
P3: TRYKKVAKT TILLUFT
K1: KONTAKTOR
F11: TERMOSTAT, OVERHETTNING MAN. RESET
F30: TERMOSTAT KJØLEVIFTE
Mk: KJØLEVIFTE
SSR: SOLID STATE RELÈ

FOR_KOMPONENT_DIMENSJONER_SE:93529

Symb.	Changes	Date/Sign.
1	TEGNING ENDRET	2007-10-25/LA

No. Unit	Pos. No.	Name, type, dim.	Drawing no. Standard	Art. No.	Matr. Spec.

Date: 10.02.04 | Drawn: T. I. Engen | Projection | Scale | FLEXIT

Checked | Appr.

KOBLING ELEKTRISKBATTERI 400V
1 TRINN -3 ELEMENTER
ART.NR.:93531

Replaces: | Replaced by:

342089 | Side:

Lay-out Moun'tain