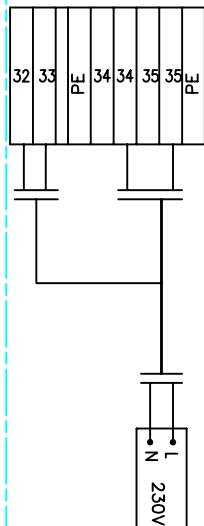
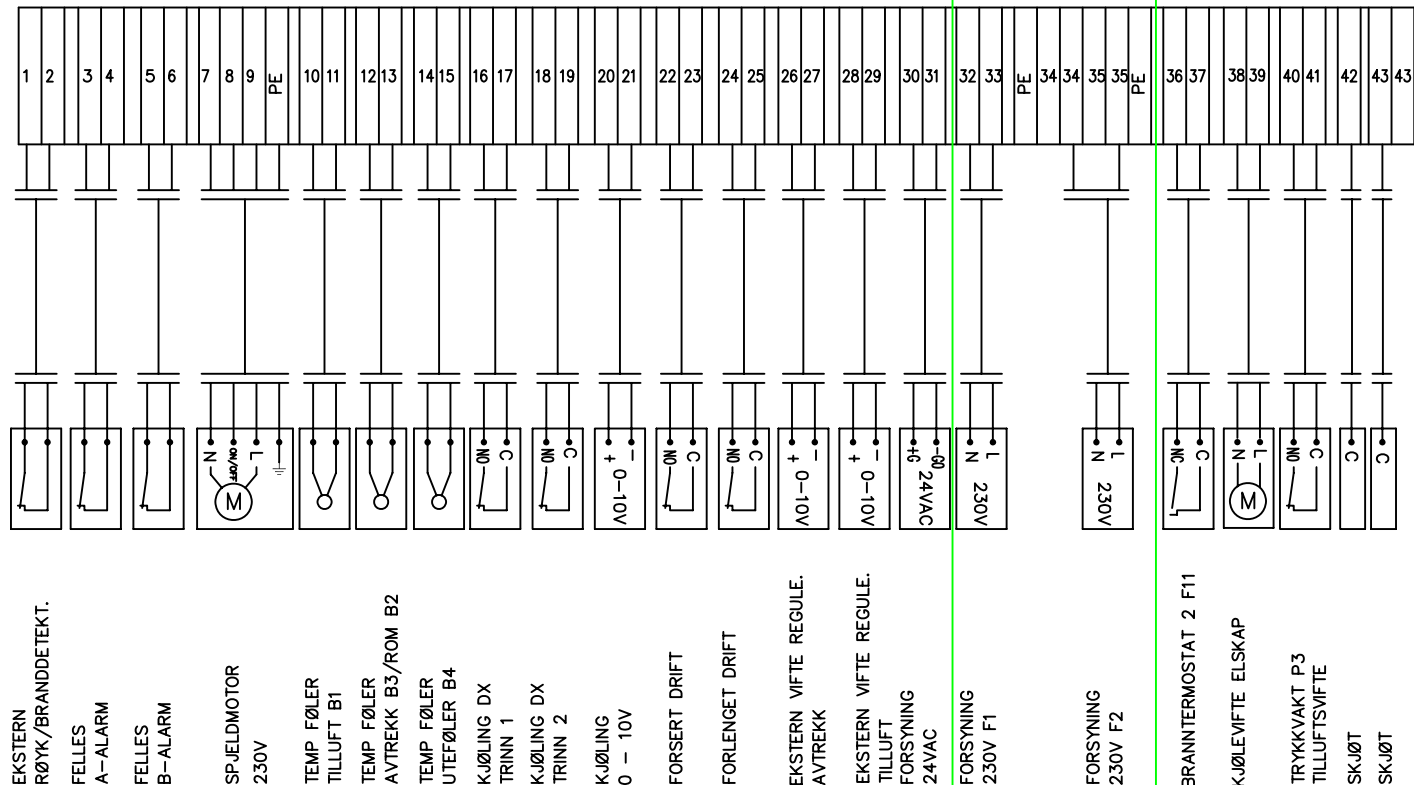


ALT. S12
L14R

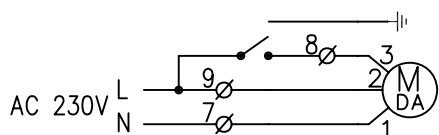


FORSYNING
230V F2

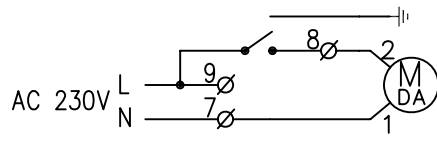


TILKOBLING SPJELD

ALT. 1



ALT. 2



2 TEGNING ENDRET 2007-10-25/LA
1 TEGNING ENDRET 2005-08-23/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.			
REKKEKLEMMESKJEMA CS 1000				Replaces:	Replaced by:
EL.BATTERI				342075	
ART.NR.:93510				Side:	

TILKOBLING TERMINAL OG KOMPONENTER

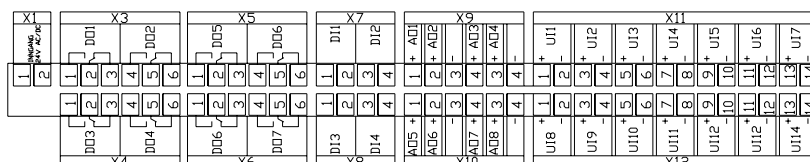
CS1000 Funksjon IO	IO Type	Tilkobling CS1000	Tilkobling komponenter
Rele utgang			
DO1 Pumpe (vannbatteri)/ Varmer trinn 2 (el.batteri)	Digital	X3 (Pin 1,2)	X:35, X:40 X:41, K2-A1
DO2 Varmer trinn 3 (el.batteri)	Digital	X3 (Pin 4,5)	
DO3 Vifte start/stopp-intern	Digital	X4 (Pin 1,2)	X:43, G0*
DO4 Ute spjeld	Digital	X4 (Pin 4,5)	X:8, X:35
DO5 Kjølning DX trinn1	Digital	X5 (Pin 1,2)	X:16, X:17
DO6 Kjølning 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 Kjølning	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 Veksler spjeld	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)	VifteAvtrX: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 Tilluftstemperatur	Passive (Ni 1000)	X11 (Pin 3,4)	X:10, X:11
UI3 Utetemperatur	Passive (Ni 1000)	X11 (Pin 5,6)	X:14, 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)

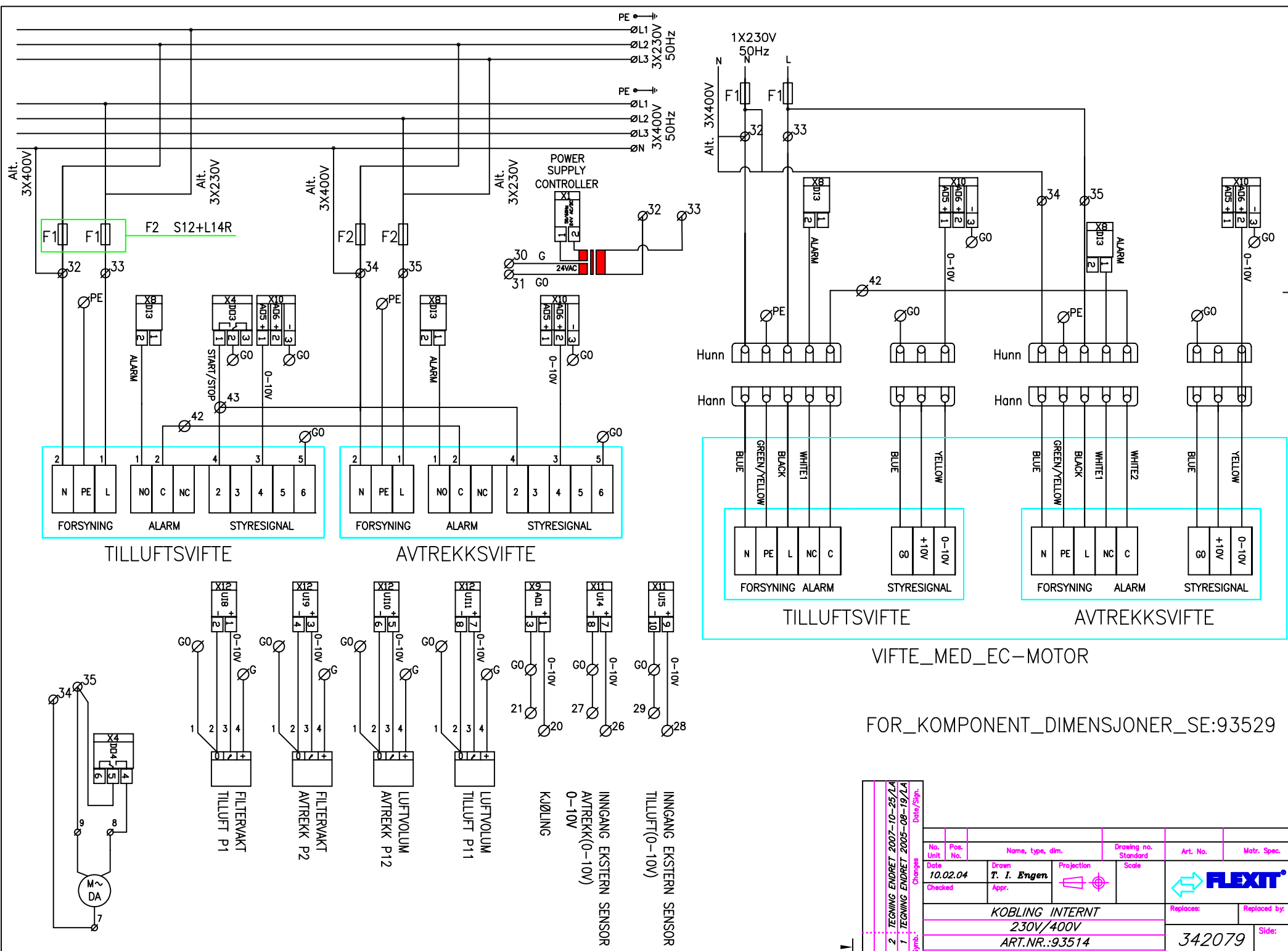
** Med ekstern frekvensomformer (L50) : X:10(Pin1,3) Tillufts-omformer AI2, G0
X:10(Pin2,3) Avtrekks-omformer AI2, G0

*** 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

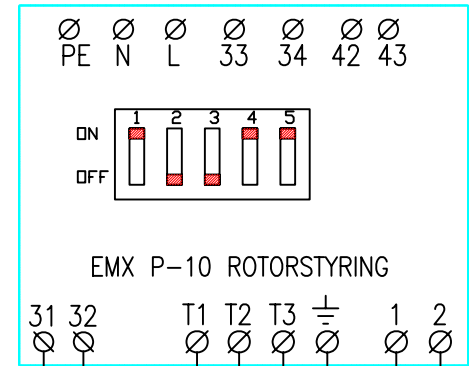
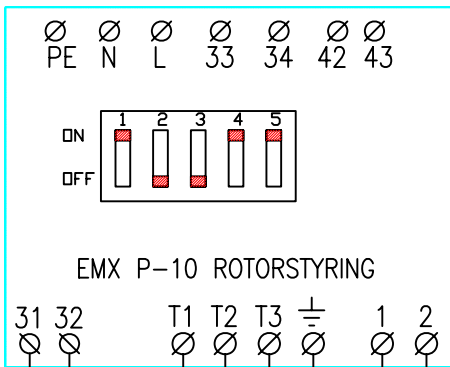
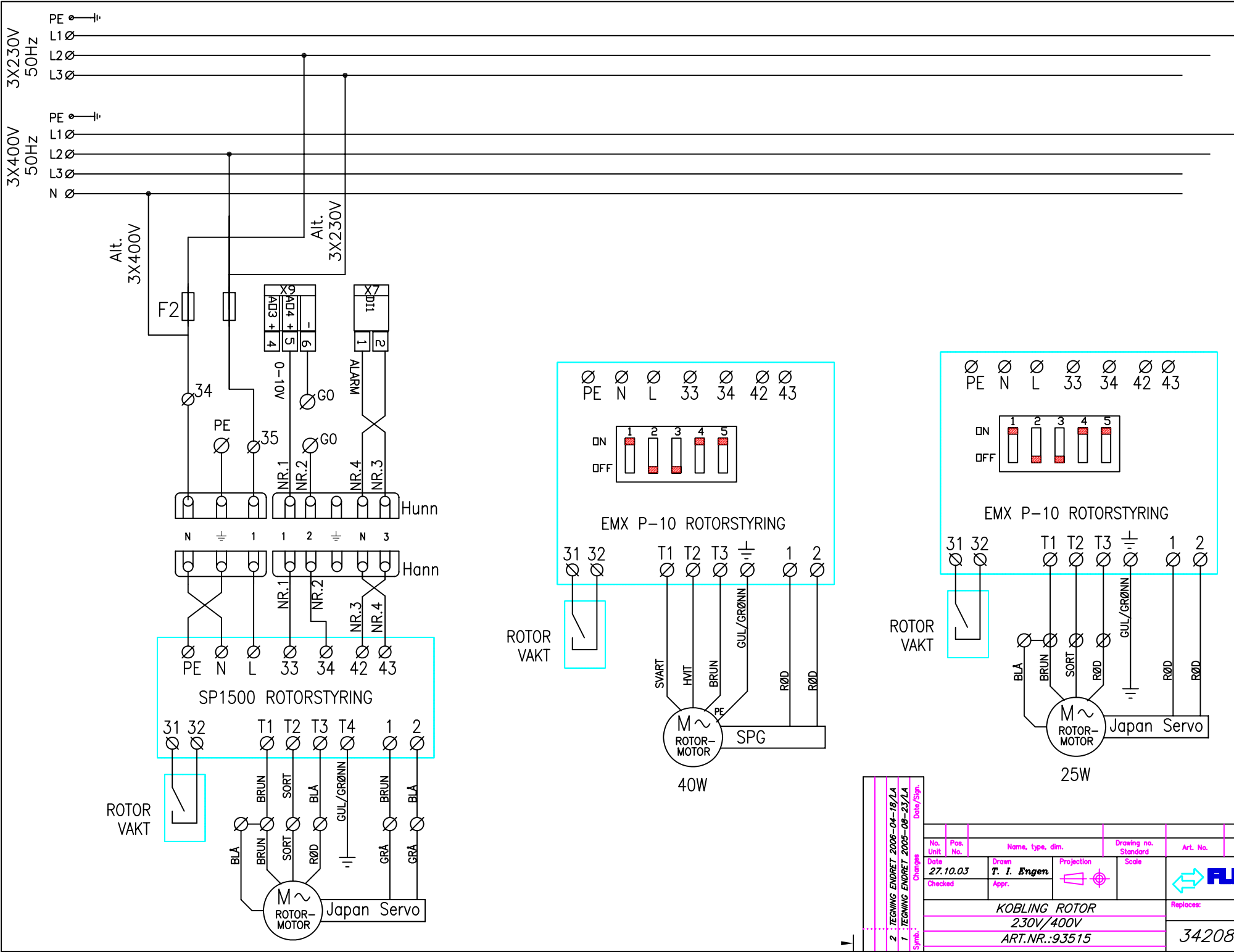


Farge kode interne ledninger Colour code - Internal wiring					
L1 1~ (N)	230V	Blå (lys)	Blue (light)	BU	
L2 1~	230V	Svart	Black	BK	
24V AC (G)	Led 1 +	Rød	Red	RD	
Zero (0-point) G0	Led 2 -	Hvit	White	WH	
24V DC	Led 1 +	Blå (mørk)	Blue (dark)	BU	
Zero (0-point) G0	Led 2 -	Hvit	White	WH	
0-10V DC		Grå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



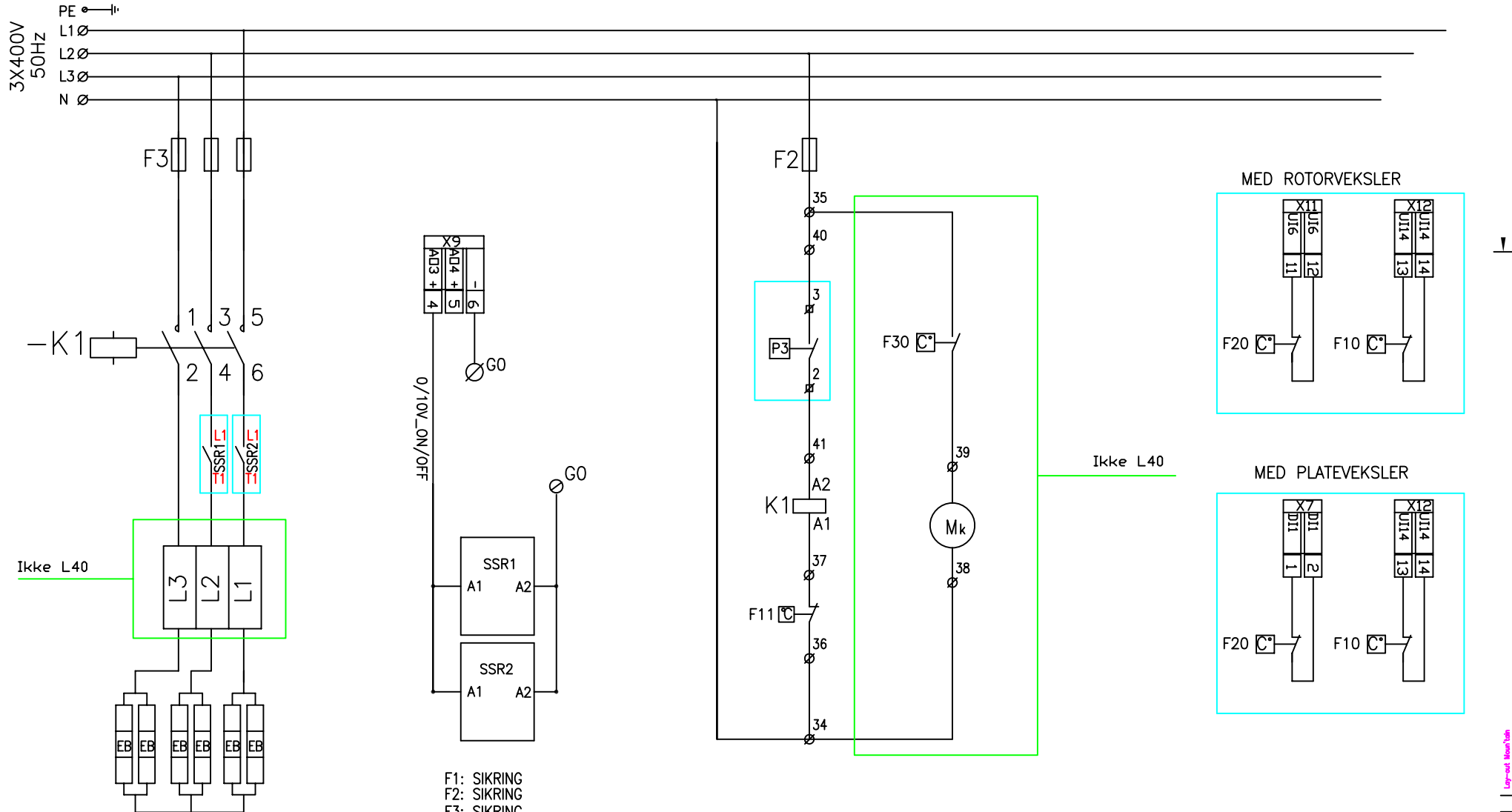
2	TECHNUNG ENDRET 2007-10-25/LA	1	TECHNUNG ENDRET 2005-08-19/LA	Date/Sign.											
Changes															
Date		10.02.04		Drawn		T. I. Engen		Projection		Scale		Art. No.		Matr. Spec.	
Checked				Appr.											
KOBLING INTERNT												Replaces:		Replaced by:	
230V/400V															
ART.NR.:93514												342079		Side:	

Top-out Mount



2		TEGNING ENDRET 2006-04-18/LA		Drawing no.		Art. No.		Metr. Spec.	
1		TEGNING ENDRET 2005-08-23/LA		Standard		Scale		Replaces:	
1		TEGNING ENDRET 2005-08-23/LA		Checked		Appr.		Replaced by:	
1		TEGNING ENDRET 2005-08-23/LA		Projection		Scale		Side:	
1		TEGNING ENDRET 2005-08-23/LA		KOBLING ROTOR		230V/400V		342080	
1		TEGNING ENDRET 2005-08-23/LA		ART.NR.:93515					

Lay-out: Marianne



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

FOR_KOMPONENT_DIMENSJONER_SE:93529

2 : TEGNING ENDRET 2006-03-02/LA		1 : TEGNING ENDRET 2005-08-29/LA		Date/Sgn.	
No.	Pos.	Name, type, dim.		Drawing no.	Art. No.
Unit	No.	Standard		Scale	Matr. Spec.
Date	10.02.04	Drawn	T. I. Engen	Projection	
Checked		Appr.			
KOBLING ELEKTRISK BATTERI 400V					Replaces:
1 TRINN -6 ELEMENTER					Replaced by:
ART.NR.:93518					342083
					Side:

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							