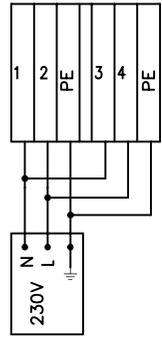
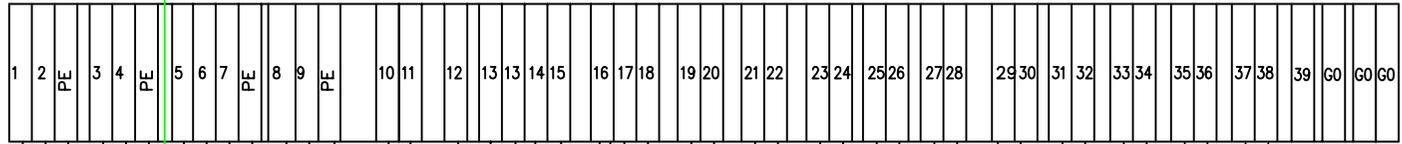


ALT. S12
L14R



FORSYNING
230V F1



FORSYNING
230V F1

FORSYNING
230V F2

SPJELDMOTOR
230V

PUMPEMOTOR
VANNBATTERI
ON/OFF

TERMOSTAT 2 F11,F20
TRYKKVAKT, VIFTE P3

KJØLING DX
TRINN 1

KJØLING DX
TRINN 2

A-ALARM
B-ALARM

FORSYNING
24VAC

0-10V
VARME

TEMP SENSOR
TILLUFT B1

TEMP FØLER
AVTREKK B3/ROM B2

TEMP FØLER
UTEFØLER B4

EKSTERN
RØYK/BRANDEDEKTEKT.

FORSERT DRIFT
HASTIGHET 3

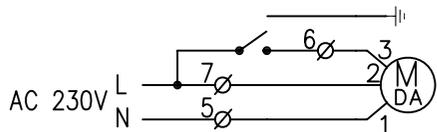
EKSTERN VIFTE REGULE.
AVTREKK

EKSTERN VIFTE REGULE.
TILLUFT

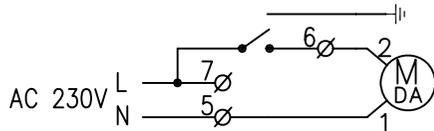
KJØLING
SKJØT

TILKOBLING SPJELD

ALT. 1



ALT. 2



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

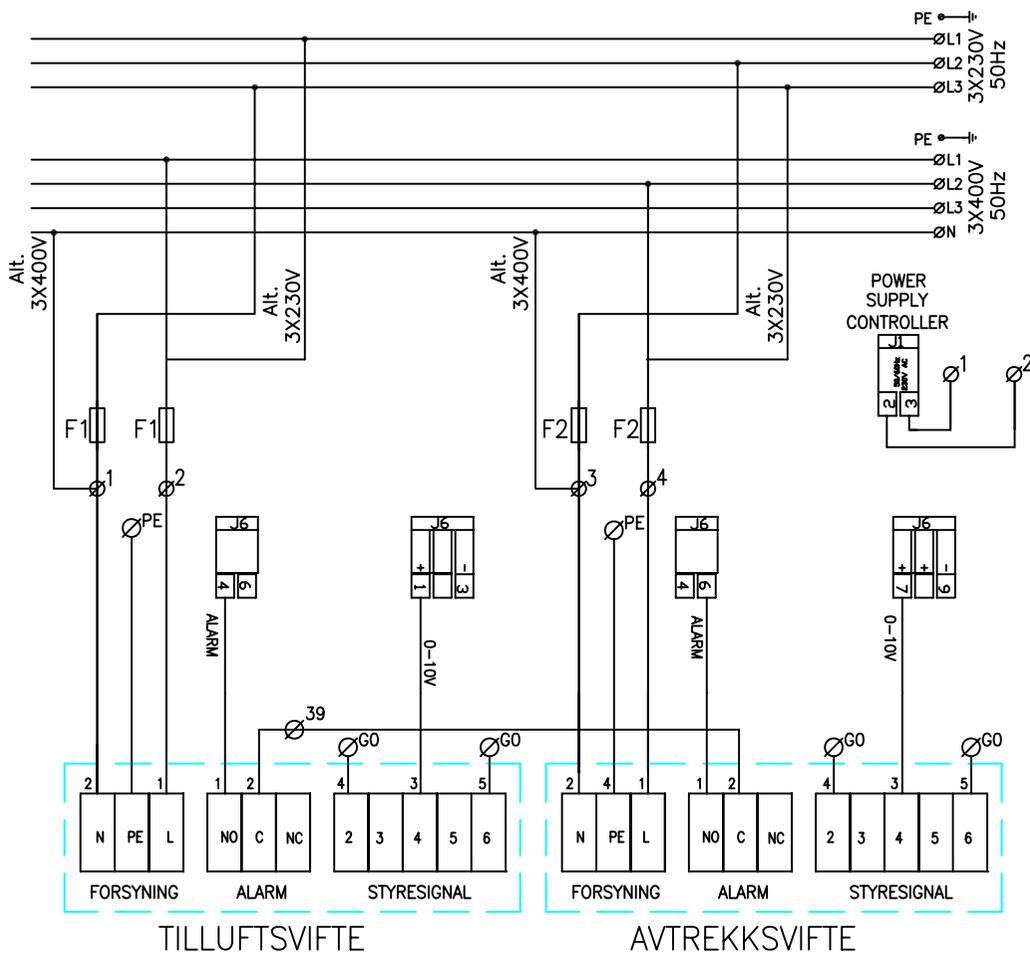
| | | | | | |
|--------------------------|----------|------------------|----------------------|-----------|--------------|
| No. Unit No. | Pos. No. | Name, type, dim. | Drawing no. Standard | Art. No. | Matr. Spec. |
| Date | Checked | Drawn | Projection | Scale | |
| 22.02.07 | | T. I. Engen | | | |
| REKKEKLEMMESKJEMA CS 500 | | | | Replaces: | Replaced by: |
| ART.NR.: 100020 | | | | 342150 | Side: |



TILKOBLING TERMINAL OG KOMPONENTER

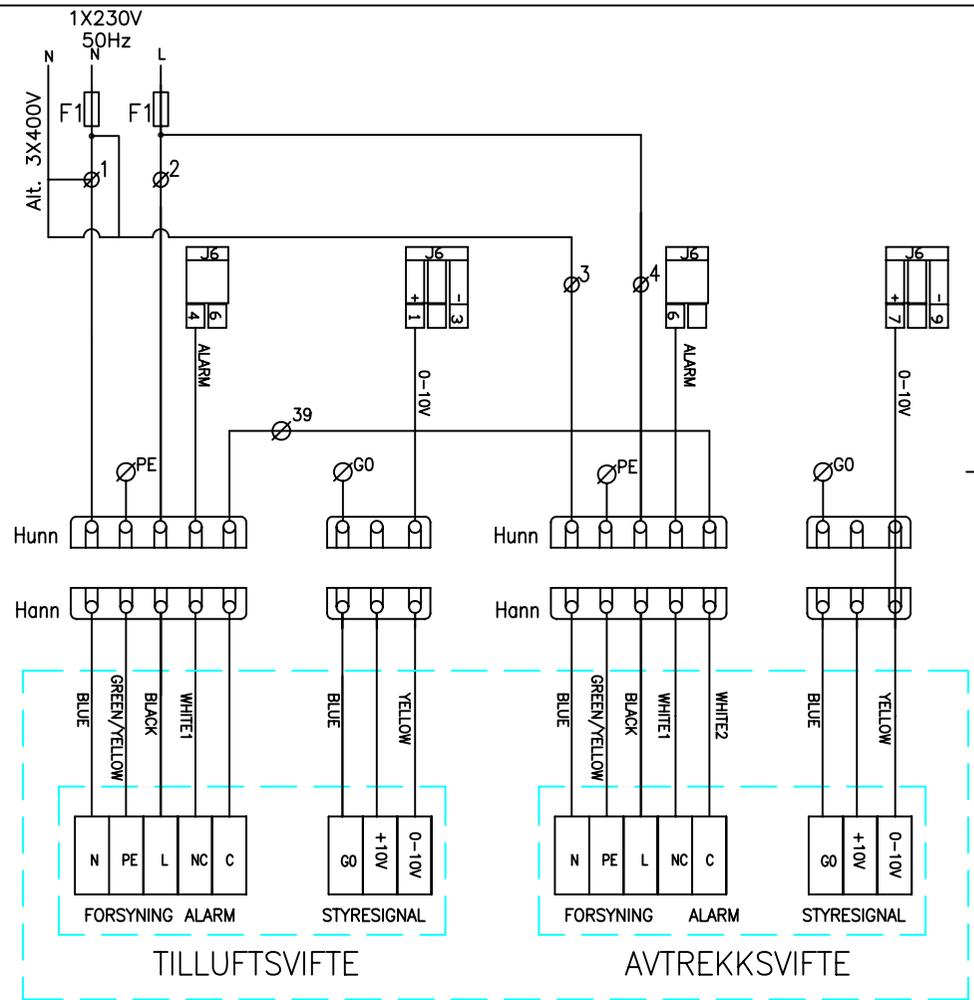
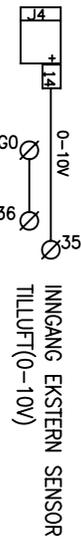
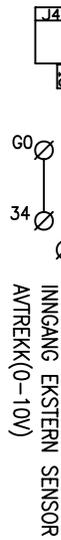
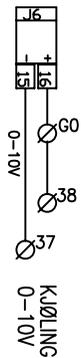
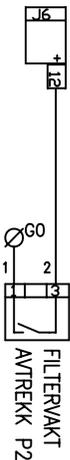
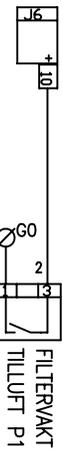
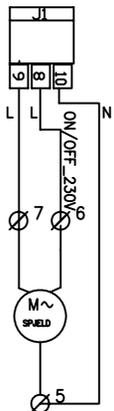
| CS500 IO | Funksjon | IO Type | Tilkobling CS500 | Tilkobling komponenter |
|-----------|--|--------------------|------------------|-----------------------------|
| J1 | | | | |
| J1 | PE | Digital | J1(Pin1) | |
| J1 | Hovedtilførsel | Digital (230V) | J1(Pin2,3) | |
| J1 | Pumpe (vannbatteri)/ Varme trinn 2 (el.batteri) | Digital (230V 11A) | J1 (Pin 4,5) | X:9, X:8 (bare ved vannbat) |
| J1 | Ikke i bruk | Digital | J1 (Pin 6,7) | |
| J1 | Ute spjeld (Pin8=L ON/OFF Pin9=L Pin10=N) | Digital (230V 2A) | J1 (Pin 8,9,10) | X:6, X:7,X:5 |
| J1 | Ikke I bruk | | J1 (Pin 11-16) | |
| J2 | | | | |
| J2 | Ikke i bruk | | | |
| J3 | | | | |
| J3 | Alarm utgang prioritet A | Digital | J3 (Pin 1,4) | X:18, X:16 |
| J3 | Alarm utgang prioritet B | Digital | J3 (Pin 2,4) | X:17, X:16 |
| J3 | Ikke i bruk | | J3 (pin 5) | |
| J3 | Kjøling DX trinn1 | Digital | J3 (Pin 6,8) | X:14, X:13 |
| J3 | Kjøling DX trinn2 | Digital | J3 (Pin 7,8) | X:15, X:13 |
| J4 | | | | |
| J4 | Hastighet 1 | Digital | J4(Pin 1,G0) | |
| J4 | Hastighet 2 | Digital | J4(Pin 2,G0) | |
| J4 | Alarm eksternt brann/røyk | Digital | J4 (Pin 3,G0) | X:29, X:30 |
| J4 | Varme av/på. Eksternt signal | Digital | J4 (Pin 4,G0) | |
| J4 | Temperaturinnstilling. Eksternt signal | Analog (0 - 10V) | J4 (Pin 5,6) | |
| J4 | Temperaturavlesning tilluft | Analog (0 - 10V) | J4 (Pin 7,G0) | |
| J4 | Temperaturavlesning avtrekk | Analog (0 - 10V) | J4 (Pin 8,G0) | |
| J4 | Temperaturavlesning Uteluft | Analog (0 - 10V) | J4 (Pin 9,G0) | |
| J4 | Avtrekk/rom temperatur | NTC | J4 (Pin 11) | X:25, X:26 |
| J4 | Utetemperatur | NTC | J4 (Pin 13) | X:27, X:28 |
| J4 | Eksternt trykksensor tilluft | Analog (0 - 10 V) | J4 (Pin 14,G0) | X:35, 36 |
| J4 | Eksternt trykksensor avtrekk | Analog (0 - 10 V) | J4(Pin 16,G0) | X:33, 34 |
| J5 | | | | |
| J5 | Tilluftstemperatur sensor | NTC | J5 (Pin 1,G0) | X:23, X:24 |
| J5 | Frost/is sensor vannbatteri | NTC | J5(Pin3,4) | Temperatur sensor B5 |
| J5 | Termostat man. reset el.batteri | Digital | J5(Pin5,8) | Termostat F10 |
| J5 | Ikke I bruk | | J5(Pin 6,7) | |
| J5 | Ettervarme full range vannbatteri | Analog (0 - 10V) | J5(Pin 9) | X:21, X:22 |
| J5 | Rotor | Analog (0 - 10 V) | J5(Pin 11) | P10X:33), G0 |
| J5 | Rotor: Rotor alarm | Digital | J5(Pin 13,14) | P10X:43,P10X:42 |
| J5 | Eksternt start/stopp | Digital | J5(Pin 15,G0) | |
| J5 | Forsert drift. Hastighet 3 | Digital | J5(Pin 16,G0) | X:31, X:32 |
| J6 | | | | |
| J6 | Tilluftsvifte. | Analog (0 - 10 V) | J6 (Pin 1,3) | VifteTil X:4, G0 |
| J6 | Start/stopp tilluftsvifte | Digital | J6 (Pin 2,G0) | |
| J6 | Alarm vifte tilluft/avtrekk | Digital | J6 (Pin4,6) | VifteAvtX:NO,VifteTilX:NO |
| J6 | Spenningsforsyning 12V | Analog (12VDC) | J6(Pin5) | X:SSR1-2A1 |
| J6 | Avtrekksvifte. | Analog (0 - 10 V) | J6 (Pin 7) | VifteAvtr X:4, G0 |
| J6 | Start/stopp avtrektsvifte | Digital | J6 (Pin 8,G0) | |
| J6 | Filtervakt tilluft | Digital | J6(Pin 10,G0) | Filtervakt P1, G0 |
| J6 | Filtervakt avtrekk | Digital | J6(Pin 12,G0) | Filtervakt P2, G0 |
| J6 | Puls med Modulering (ON/OFF) | Analog | J6 (Pin 13) | X:SSR1-2 A1 |
| J6 | Kjøling | Analog (0 - 10V) | J6 (Pin 15,16) | X:37, X:38 |

| 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 - | | | | | |



TILLUFTSVIFTE

AVTREKKSIVIFTE



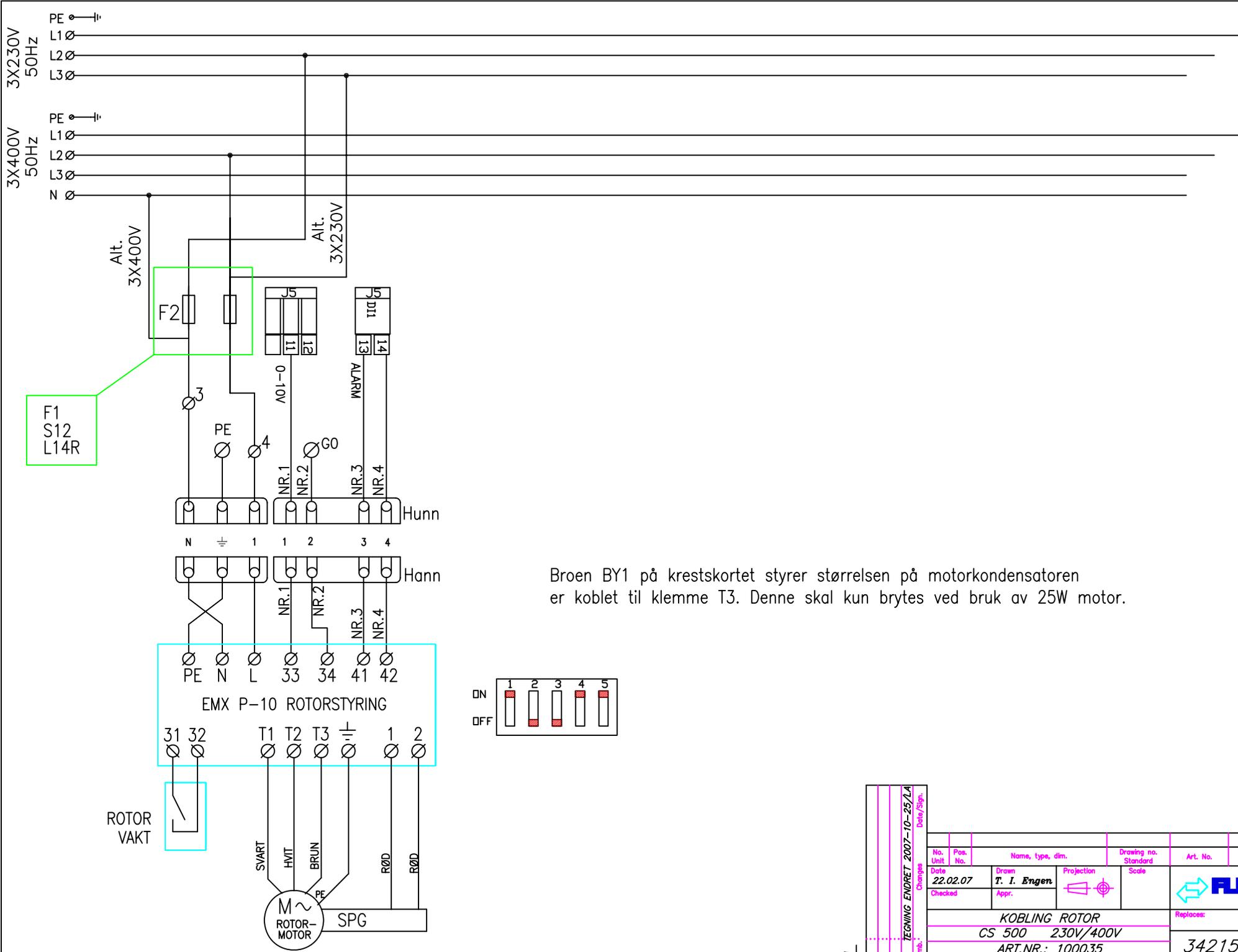
TILLUFTSVIFTE

AVTREKKSIVIFTE

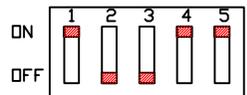
VIFTE_MED_EC-MOTOR

FOR_KOMPONENT_DIMENSJONER_SE:93529

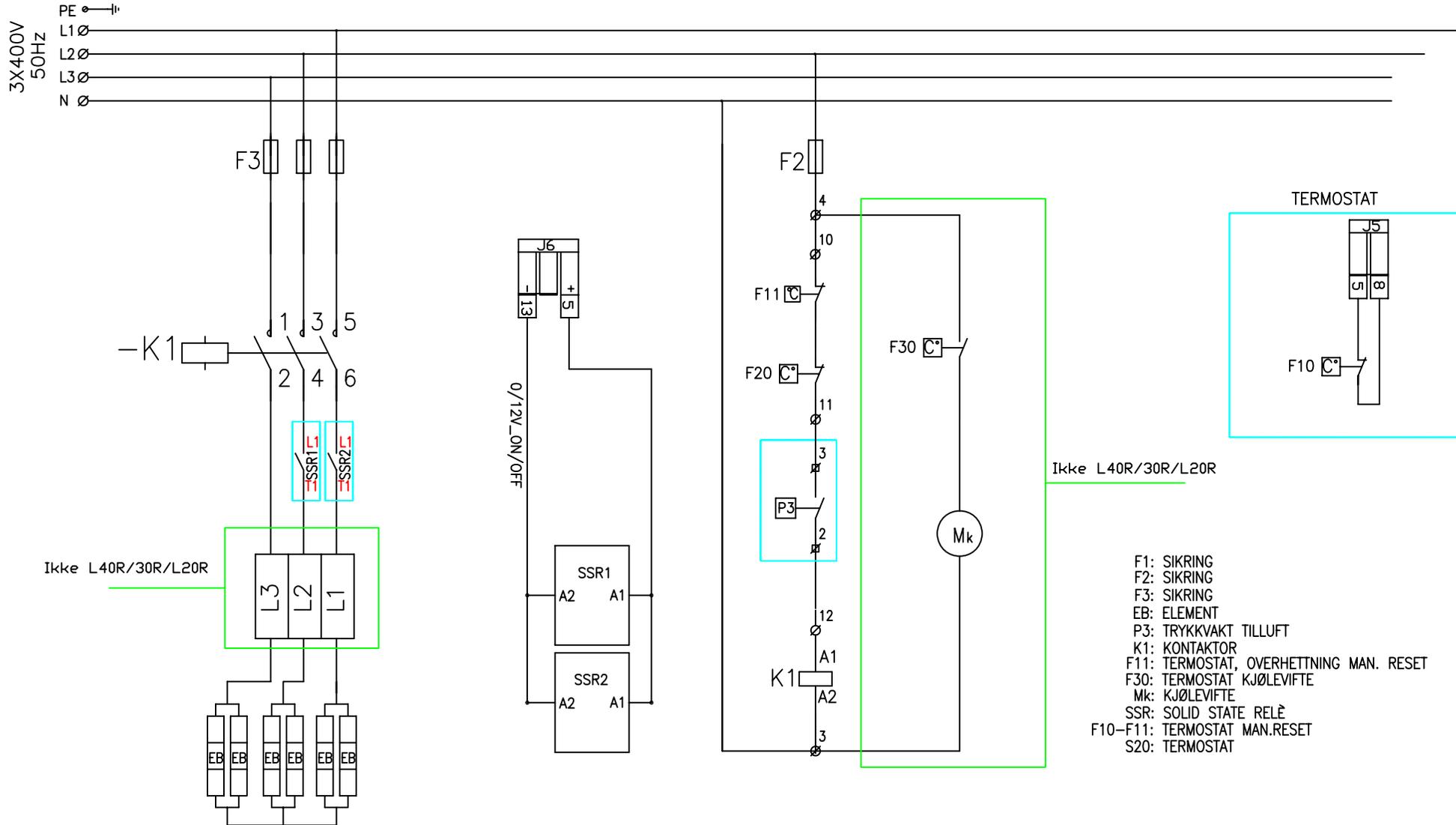
| | | | | | | | | | |
|--|----------|------------------|--|----------------------|--|-------------|--|--------------|--|
| 1. EC-motor tillagt 03.10.2007 LA | | Date/Sign. | | Drawing no. Standard | | Art. No. | | Matr. Spec. | |
| No. Unit | Pos. No. | Name, type, dim. | | Date | | Scale | | Projection | |
| | | | | 22.02.07 | | T. I. Engen | | Checked | |
| Checked | | Appr. | | | | | | | |
| KOBLING INTERNT CS 500 230V/400V ART.NR.: 100034 | | | | | | | | Replaces: | |
| | | | | | | | | Replaced by: | |
| | | | | | | | | 342153 | |
| | | | | | | | | Side: | |



Broen BY1 på krestskortet styrer størrelsen på motorkondensatoren er koblet til klemme T3. Denne skal kun brytes ved bruk av 25W motor.



| | | | | | |
|------------------|-------------|------------------------------|--|----------------------|--------------|
| 1 | | TEGNING ENDRET 2007-10-25/LA | | Date/Sign. | |
| No. Unit | Pos. No. | Name, type, dim. | | Drawing no. Standard | Art. No. |
| Date | Drawn | Projection | | Scale | |
| 22.02.07 | T. I. Engen | | | | |
| Checked | Appr. | | | | |
| KOBLING ROTOR | | | | Replaces: | Replaced by: |
| CS 500 230V/400V | | | | | |
| ART.NR.: 100035 | | | | 342154 | |
| | | | | Side: | |



Ikke L40R/30R/L20R

Ikke L40R/30R/L20R

- F1: SIKRING
- F2: SIKRING
- F3: SIKRING
- EB: ELEMENT
- P3: TRYKKVAKT TILLUFT
- K1: KONTAKTOR
- F11: TERMOSTAT, OVERHETNING MAN. RESET
- F30: TERMOSTAT KJØLEVIFTE
- Mk: KJØLEVIFTE
- SSR: SOLID STATE RELÈ
- F10-F11: TERMOSTAT MAN.RESET
- S20: TERMOSTAT

FOR_KOMPONENT_DIMENSJONER_SE:93529

| No. | | Pos. | | Name, type, dim. | Drawing no. Standard | Art. No. | Matr. Spec. |
|--|-----|-------------|-----|------------------|----------------------|----------|--------------|
| Unit | No. | Unit | No. | | | | |
| Date | | Drawn | | Projection | Scale | | |
| 22.02.07 | | T. I. Engen | | | | | |
| Checked | | Appr. | | | Replaces: | | Replaced by: |
| | | | | | 342157 | | Side: |
| KOBLING ELEKTRISK BATTERI 400V 1 TRINN -6 ELEMENTER ART.NR.:100038 | | | | | | | |

Lay-out: Man/Jan

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 | | | | | | | |