A | B | C | D | E | F | G | H | J | K

LE202270-60
3pcs

KABELFÄRGER CABLE COLORS

KRAFT	POWER	= SVART/BLACK
KRAFT NOLLA	POWER NEUTRAL	= BLÅ/BLUE
MANÖVER 230VAC	MANEUVER 230VAC	= RÖD/RED
MANÖVER NOLLA 230VAC	MANEUVER NEUTRAL 230VAC	= BLÅ/BLUE
MANÖVER 12-24VAC	MANEUVER 12-24VAC	= RÖD/RED
MANÖVER NOLLA 12-24VAC	MANEUVER NEUTRAL 12-24VAC	= BLÅ/BLUE
MANÖVER 12-24VDC +	MANEUVER 12-24VDC+	= MÖRKBLÅ/DARKBLUE
MANÖVER 12-24VDC -	MANEUVER 12-24VDC-	= VIT/WHITE
FRÄMMANDE SPÄNNING	EXTERNAL VOLTAGE	= ORANGE/ORANGE
SIGNAL	SIGNAL	= GRÅ/GRAY
DALI/KNX +	DALI/KNX +	=RÖD/RED TVINNAD
DALI/KNX -	DALI/KNX -	=SVART/BLACK TWISTED

ALLMÄN INFO GENERAL INFO

- Gul Fleximark typ PO-TUB används som standard
- Yellow Fleximark type PO-TUB is used as default
- Ändhylsor allt kablage är standard
- End sleeves on all cables are standard
- Pos.märkning av typ Brother TZ-tejp
  vit bakgrund svart text.
- Pos. label type Brother TZ tape
  white background with black text
- kablage av typ RQ halogenfritt
- Type RQ cables free of halogen

TEKNISK INFO TECHNICAL INFO

NR	REVISION	SIGN.	DATUM

BYGGHANDLING

Kraftpojkarna

EA ELAUTOMATION

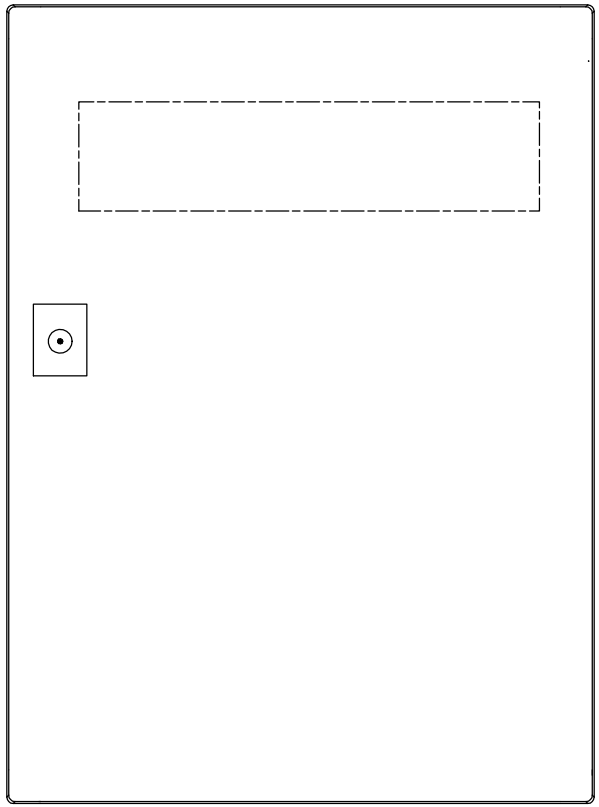
INKOPPLINGSLÅDA DC

DC-SUNGROW 2 MPPT 4 STRÄNGAR

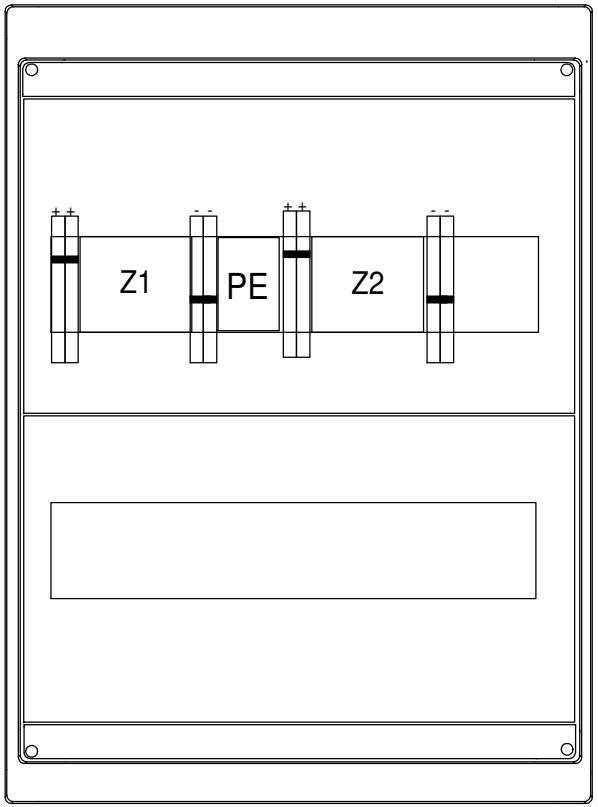
FÖRSÄTTSBLAD

ARBETSORDER	RITNINGSNR P20666009	
KONSTRUERAD AV SP	RITAD AV SP	BLAD 1
DATUM 22-11-15	REV. B	FORTS 2

VY STÄNGD DÖRR



VY ÖPPEN DÖRR



YTTRE MÅTT:
BREDD: 300 mm
HÖJD: 400 mm
DJUP: 200 mm

2st M32

NR	REVISION	SIGN.	DATUM

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DC-SUNGROW 2 MPPT 4 STRÄNGAR

Frontlayout

ARBETSORDER	RITNINGSNR	
	P20666009	
KONSTRUERAD AV	RITAD AV	BLAD
SP	SP	2
DATUM	REV.	FORTS
22-11-15	B	3

A	B	C	D	E	F	G	H	J	K

Antal	Pos.Beteckning	Benämning	Typ	Data	Fabrikat	Artikelnr	E-nummer
1		Väggkapsling med dörr	H400xB300xD200mm	IP65	Schneider Electric	NSYCRN43200	
1		Norminsats 2-radig	2x12 moduler		Schneider Electric	NSYDLM24	2546081
1		Väggfäste			Schneider Electric	NSYPFCR	2545496
2		Förskruvning Polyamid IP68	M32x1,5		Rutab	1476115	1476115
2		Flerhålspackning Metrisk	M32 6x6		Rutab	1476330	1476330
1		Täcklock	ZA1P5		ABB	2CPX062384R9999	2300240
8	X1	Genomgångsplint	PT 6-QUATTRO		Phoenix Contact	3212934	
4		Överkopplingsbrygga	FBS2-8		Phoenix Contact	3030284	
2		Ändplatta	D-PT 6-QUATTRO		Phoenix Contact	3212963	
2		Ändstöd	E/NS 35 N		Phoenix Contact	0800886	2911907
6	Z1-Z2	Överspänningsskydd	Pluggar DC-Skydd		Phoenix Contact	2908667	
2	Z1, Z2	Överspänningsskydd	DC-Sockel		Phoenix Contact	2908425	
1	PE	Kopplingsplint	OTL 2x1,5-50² YG	2x1,5-50mm² Al/Cu	Ouneva	26130503	2677569

NR	REVISION	SIGN.	DATUM

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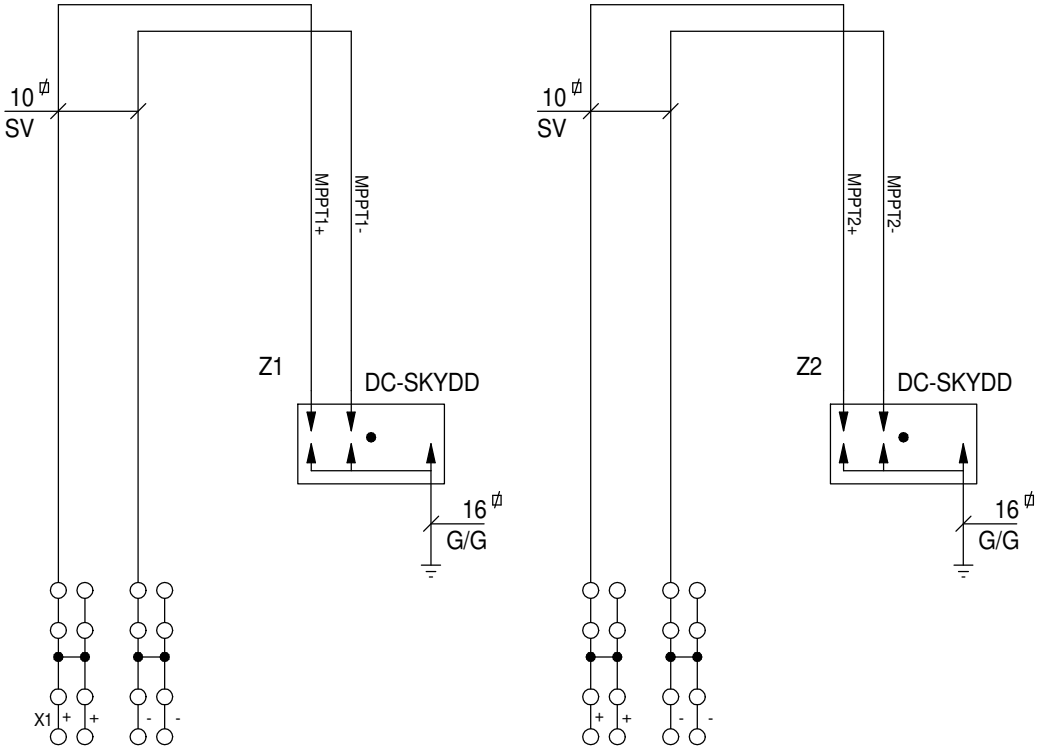
INKOPPLINGSLÅDA DC

DC-SUNGROW 2 MPPT 4 STRÄNGAR

APPARATLISTA

ARBETSORDER	RITNINGSNR	
	P20666009	
KONSTRUERAD AV	RITAD AV	BLAD
SP	SP	3
DATUM	REV.	FORTS
22-11-15	B	4



STRÄNG 1&2 + STRÄNG 1&2-

KORSKOPPLING

Anslutning max 7x6mm2 +/-

MPPT1

STRÄNG 3&4 + STRÄNG 3&4 -

KORSKOPPLING

Anslutning max 7x6mm2 +/-

MPPT2

Z1-Z2 IS EQUIPPED WITH 3 PCS OF PLUGS AS STANDARD

NR	REVISION	SIGN.	DATUM

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DC-SUNGROW 2 MPPT 4 STRÄNGAR

KRETSSCHEMA

ARBETSORDER	RITNINGSNR	
	P20666009	
KONSTRUERAD AV: SP	RITAD AV: SP	BLAD: 4
DATUM: 22-11-15	REV.: B	FORTS: 5

A	B	C	D	E	F	G	H	J	K

CABEL DIMENSION mm KABEL STORLEK		RATING (A) APPARATER STRÖM (A) (ENG) (SV)
ENKEL/SINGLE	PARALLELLA	
2,5		10A
2,5		16A
4		20A
6		25A
10		50A
16		80A
25		100A
35	//16	125A
50	//25	160A
70	//25	180A
95	//25	200A
120/150	//35	250A
185	//50	315A
SEE CUBIC TABLE	//70	400A
SEE CUBIC TABLE	//95	500A
SEE CUBIC TABLE	SEE CUBIC TABLE	800A

(SE) Cu-flex skinner
(S) Cu-flex skenor
(GB) Cu-flex busbar
(D) Cu-flex Schienen
(F) Cu-flex, Cuivre souple

Date: 01 MAR 17

P 1902
Index

The dimensioning of Cu-flex should be done in one of the following 2 ways:

1) If you use the already tested units/circuits shown for MD on page P1103 and MPI on page P1002 no further dimension is nessesary since CUBIC have verified the rating of the complete circuit including wires/Cu-flex and components.

2) Dimensioning of Cu-flex following the guidelines in this chapter

The below rated current values are verified by test at an ambient temperature around the Cu-flex of 30 °C
The ratings are ajusted to 80% insulation temparature according to rules in IEC 61439-1,8.6.4 and table 4 about "Selection and installation of non-protected live conductors to reduce the possibility of short-circuits"

Rated current at 30 °C [In]					
FB25	FB50	FB100	2 x FB100	FB240 FB243	2 x FB240 2 x FB243
190 A	295 A	420 A	645 A	690 A	1040 A

Dimensioning of Cu-flex is done just like wires according to IEC 60364-5-52, where the basic rated current [In] is corrected according to the surrounding temperature [K1] and the installation method [K2].

CUBIC have on top of that decided to add a correction factor [k3] taking into account the high temperatures that might be on the joint between Cu-flex and e.g. a busbar or component.

Dimension of Cu-flex: Iz ≥ Ib
Iz = The corrected current of a wire (Cu-flex) = In x K1 x K2 x K3
In = Rated current at 30 °C
Ib = Design current of a circuit [A]

Example on how to dimension a Cu-flex, see next page....

K1	Correction factor for surrounding temperature arround the Cu-flex															
Surrounding temperature °C	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Correction factor	1,16	1,13	1,10	1,07	1,04	1,00	0,96	0,93	0,89	0,85	0,80	0,76	0,71	0,65	0,60	0,53

K2	Correction factor for installation method			
	Bonded	Bonded	Bonded	Not Bonded
Cu-flex dimension	FB25 / FB50	FB100	FB240 / FB243	All dimensions
Correction factor	0,80	0,85	0,90	1,0

K3	Correction factor for joints
Both ends / joints of the Cu-flex is terminated at less than 100 °C	K3 = 1,0
One of the ends / joints of the Cu-flex is terminated at more than 100 °C	K3 = 0,9
Both ends / joints of the Cu-flex is terminated at more than 100 °C	K3 = 0,8

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CUBIC

NR	REVISION	SIGN.	DATUM

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EA ELAUTOMATION

INKOPPLINGSLÅDA DC

DC-SUNGROW 2 MPPT 4 STRÄNGAR

PROVNINGSPROTOKOLL

ARBETSORDER	RITNINGSNR	
	P20666009	
KONSTRUERAD AV	RITAD AV	BLAD
SP	SP	5
DATUM	REV.	FORTS
22-11-15	C*	