

POWER SUPPLY 1-PHASE, 36 V DC DIMENSION C SERIES, GENERATION 2

36-42V, 6,7A

CP10.361
 POWER SUPPLY 36VDC 240W 6,7A

- Width 39mm
- 95,4% efficiency
- 20% power reserve
- Active PFC, DC-OK Relay Contact, Hiccup Plus



PRODUCT DESCRIPTION

TECHNICAL DATA

INPUT DATA

Input voltage range	Wide-range
Input voltage ac	100-240 V
Input voltage ac min	85 V AC
Input voltage dc max	180 V DC
Input voltage dc	110-150 V
Input voltage ac max	264 V AC
Inrush current at 230 V ac typical	6 A
Number of phases	1
Inrush current at 120 V ac typical	6 A
Power factor at 120 V ac, full load. Typical	0,99
Power factor at 230 V ac, full load. Typical	0,97
Input voltage dc min	88 V DC

OUTPUT DATA

Output voltage min	36 V DC
Output voltage	36 V DC

Output voltage max	42 V DC
Power	240 W
Output current	6,7 A

EFFICIENCY / LIFETIME / MTBF

Lifetime at 120 V ac, full load and +40 ° C	87000 h
MTBF (IEC 61709) 230 V ac, max load, 40 ° C	661000 h
Efficiency at 230 V ac, full load, typical	95,4 %
Efficiency at 230 V ac, typical	94,3 %
Lifetime at 230 V ac, full load and +40 ° C	130000 h
Efficiency at 120 V ac, full load, typical	93,8 %

DIMENSIONS

Weight	0,6 kg
Depth	117 mm
Width	39 mm
Height	124 mm

OTHER

IP class	IP20
Power consumption 120 V ac	2,16 A
Ripple max	50 mV pp
Power drop from +60 °C to + 70 °C	6 W/°C
Clamp type	Screw
Temperature min without derating	-25 °C
Hold time at 120 V ac, typical full load	38 ms
Series	Dimension C
Hold time at 230 V ac, typical full load	38 ms
Power consumption 230 V ac	1,13 A
Supply frequency	50-60 ±6 %
Approvals	ABS, CB, CE, CSA, EX, GL, IECEx, UL
Temperature max without derating	60 °C
Material protection	Aluminium
Active Transient	Yes
DC relay output	Yes

Fig. 6-1 Output voltage vs. output current, typ.

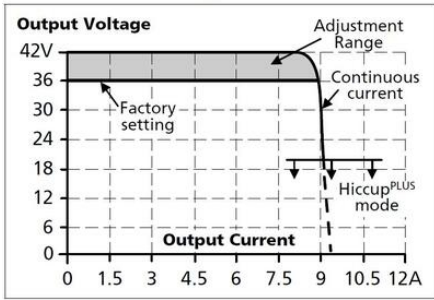


Fig. 6-2 Dynamic output current capability, typ.

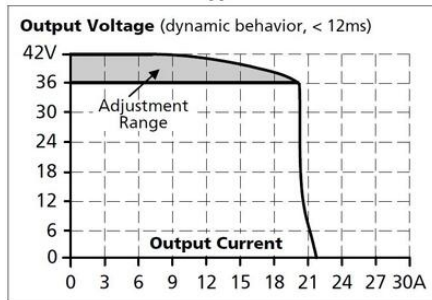


Fig. 16-1 Output current vs. ambient temp.

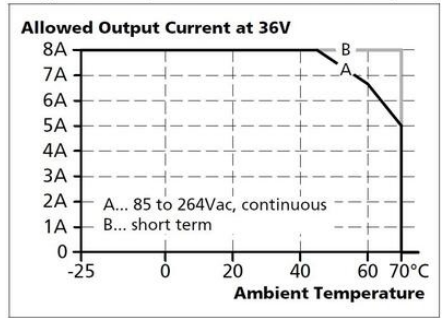


Fig. 6-3 Short-circuit on output, Hiccup^{PLUS} mode, typ.

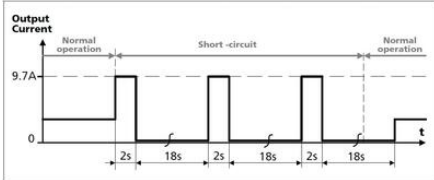


Fig. 9-1 Efficiency vs. output current at 36V, typ.

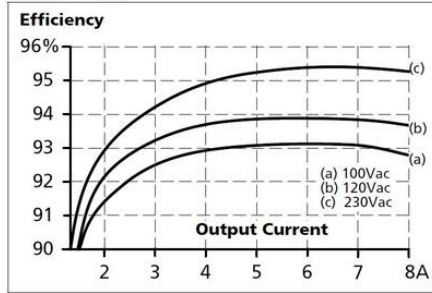
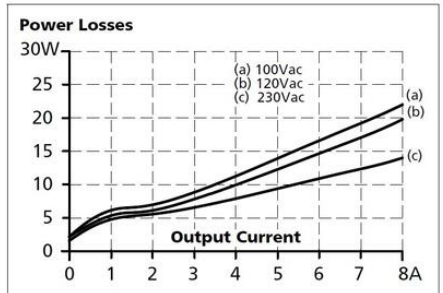


Fig. 9-2 Losses vs. output current at 36V, typ.



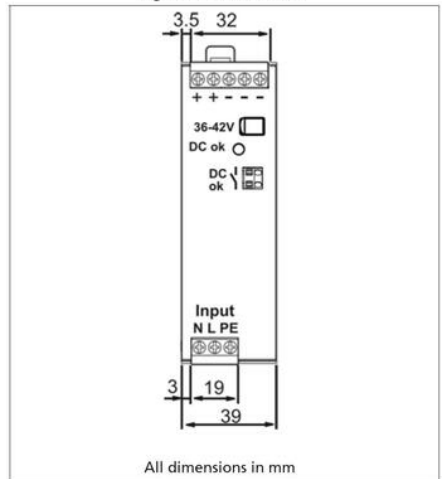
Maximal wire length¹⁾ for a fast (magnetic) tripping:

	0.75mm ²	1.0mm ²	1.5mm ²	2.5mm ²
C-2A	49m	64m	98m	> 120m
C-3A	14m	23m	30m	48m
C-4A	2m	2m	2m	2m
B-6A	7m	7m	7m	8m

Fig. 14-1 Front side



Fig. 22-1 Front view



All dimensions in mm

