

Primary switch mode – three-phase

Stabilized output voltage

Short-circuit and overload protected

Wide voltage input

Touch protected to EN 60529 (IP20)

PIP-*Power*⁺

Approvals:

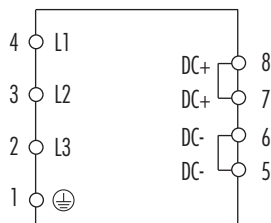


MCS with PFC

Input voltage 3 x 360...550 V AC



Circuit diagram



Ordering data

Output rating

24 V DC/ 5 A

120 W

Art.-No.

857814

24 V DC/10 A

240 W

Art.-No.

85071

Input

Input voltage

3 x 360...550 V AC

3 x 360...550 V AC

Input current

3 x 0.33 A

3 x 0.65 A

Inrush current

< 15 A

Input fuse

3 x 2 A

Frequency

50/60 Hz

Output

Output voltage

24 V DC SELV, $\pm 1\%$; 24...28 V adjustable

24 V DC SELV, $\pm 1\%$; 24...28 V adjustable

Nominal output current

5 A (60 °C); 6 A (40 °C)

10 A (60 °C); 12 A (40 °C)

Efficiency

0.9

Mains failure bridging

> 25 ms (400 V AC)

> 11 ms (500 V AC)

Ripple

< 20 mV eff

Spikes

< 100 ms

Protection

short-circuit and overload protected

LED-indicator

green LED for output voltage

Switch off mode choosable

front sided bridging link (self activating re-start or definite shutoff)

Parallel usage/Serial usage

yes/yes

General data

Guidelines

EN 60950-1, EN 61204-3, EN 55022 B

Temperature range

0...+60 °C

Relative humidity

5...95 %, no condensation

Mounting method

DIN-rail mounting to EN 60715 (TH35)

Weight

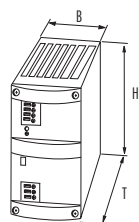
1.3 kg

Dimensions

H x B x T x TA¹⁾

127 x 68 x 178 x 20¹⁾ mm

Dimension drawing



¹⁾ TA = terminal depth

Notes

MCS primary switch mode meets EN 61000-3-2 guideline.

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Approvals:

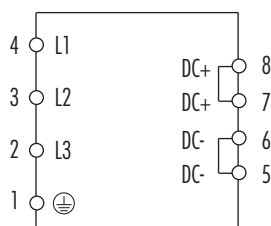


MCS with PFC

Input voltage 3 x 360...550 V AC

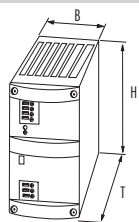


Circuit diagram



Ordering data		Art.-No.	Art.-No.
	Output rating		
24 V DC/20 A	480 W	85072	
24 V DC/40 A	960 W		85099
Input			
Input voltage	3 x 360...550 V AC		3 x 360...550 V AC
Input current	3 x 1.2 A		3 x 1.7 A
Inrush current	< 20 A		no
Input fuse	3 x 3 A		3 x 4 A
Frequency	50/60 Hz		
Output			
Output voltage	24 V DC SELV, $\pm 1\%$; 24...28 V adjustable		
Nominal output current	20 A (60 °C); 24 A (40 °C)		40 A (60 °C); 48 A (40 °C)
Efficiency	0.9		0.91
Mains failure bridging	> 12 ms (400 V AC)		typ. 8 ms (440 V AC)
Ripple	< 20 mV eff		
Spikes	< 100 ms		< 150 mV ss
Protection	short-circuit and overload protected		
LED-indicator	green LED for output voltage		
Switch off mode choosable	front sided bridging link (self activating re-start or definite shutoff)		
Parallel usage/Serial usage	yes/yes		
General data			
Guidelines	EN 60950-1, EN 61204-3, EN 55022 B		
Temperature range	0...+60 °C		
Relative humidity	5...95 %, no condensation		
Mounting method	screw mounting M 4, 4 pieces, 60 x 197 mm		screw mounting M 4, 4 pieces, 81 x 230 mm
Weight	2.3 kg		4.5 kg
Dimensions	H x B x T x TA ¹⁾	209 x 84 x 227 x 20 ¹⁾ mm	242 x 106 x 270 mm

Dimension drawing



¹⁾ TA = terminal depth

Notes

MCS primary switch mode meets EN 61000-3-2 guideline.

Primary switch mode – three-phase

Stabilized output voltage

Short-circuit and overload protected

Wide voltage input

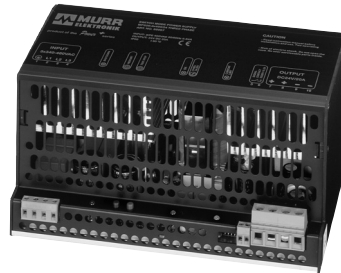
Touch protected to EN 60529 (IP20)

PIP- Power +

Approvals:  **UL** **US**
Listed

MPS 10

Input voltage 3 x 360...550 V AC

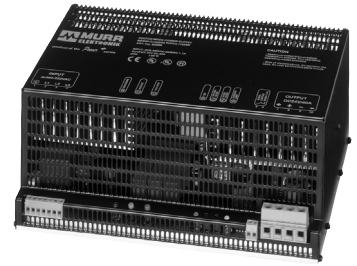


MPS 20

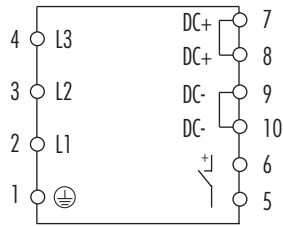
Input voltage 3 x 360...550 V AC

MPS 40

Input voltage 3 x 360...550 V AC

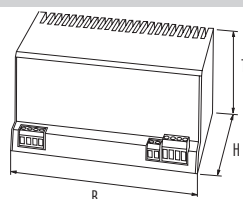


Circuit diagram



Ordering data		Art.-No.	Art.-No.	Art.-No.
	Output rating			
24 V DC/10 A	240 W	85066		
24 V DC/20 A	480 W		85068	
24 V DC/40 A	960 W			85069
Technical data		Input		
Input voltage		3 x 360...550 V AC	3 x 360...550 V AC	3 x 360...550 V AC
Input current		3 x 0.41 A	3 x 0.84 A	3 x 1.7 A
Inrush current		no		
Frequency		50/60 Hz		
Input fuse		max. 10 A		
Output				
Output voltage		24 V DC SELV, $\pm 1\%$; 22...28 V adjustable		
Nominal output current		10 A (60 °C); 12 A (40 °C)	20 A (60 °C); 24 A (40 °C)	40 A (60 °C); 48 A (40 °C)
Efficiency		0.9		0.91
Mains failure bridging		> 3 ms (400 V AC)		
Ripple, Spikes		< 20 mV eff; < 100 mV ss		
Protection		short-circuit and overload, switch off at phase failure, pre-warning and switching off when overloaded, signaling over alarm output		
Phase monitoring		switch off when phase is lost		
LED-indicator		green LED in operation, red LED shut down, yellow LED pre-warning of overload or high temperature		
Parallel usage/Serial usage		yes/yes		
Alarm output ¹⁾		relay contact max. 60 V DC/ 0.2 A; collective alarm for all faults and pre-warnings, quit via green reset button		
Test stop button		for test purposes, secondary voltage can be switched off short term via test stop button		
General data				
Guidelines		EN 60950-1, EN 61204-3, EN 55022 B		
Temperature range		0...+60 °C		
Relative humidity		30...90 %, no condensation		
Mounting method		DIN-rail mounting to EN 60715 (TH35); additional plate for screw mounting Art.-No. 89500		DIN-rail is also delivered ²⁾
Weight		1.8 kg	2.4 kg	5.8 kg
Dimensions	H x B x T	132 x 198 x 97 mm	132 x 243 x 123 mm	193 x 282 x 132 mm

Dimension drawing



Notes

MPS primary switch mode meets EN 61000-3-2 guideline. UPS components see page 4.9.3

¹⁾ If units used in parallel decoupling of units via diode block. ²⁾ Right angle foot brackets for screw mounting Art.-No. 89504.