

Primary switch mode – single-phase

Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

PIP-*Power* ⁺

MCS-B

Input voltage 95...265 V AC



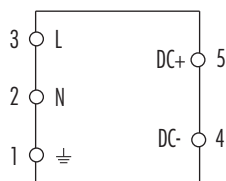
MCS-B

Input voltage 90...265 V AC

MCS-B

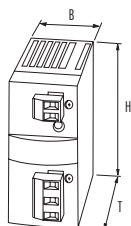
Input voltage 95...265 V AC

Circuit diagram



Ordering data			Art.-No.	Art.-No.	Art.-No.
	Output rating				
5 V DC/ 3 A	15 W		85371		
12 V DC/ 1 A	12 W			85372	
12 V DC/ 2.5 A	30 W				85373
Input					
Input voltage		95...265 V AC; 110...300 V DC	90...265 V AC; 110...300 V DC		95...265 V AC; 110...300 V DC
Input current		0.3 A (115 V AC); 0.2 A (230 V AC)	0.33 A (100 V AC); 0.16 A (230 V AC)		0.56 A (115 V AC); 0.31 A (230 V AC)
Inrush		< 15 A	< 20 A		
Primary fusing		max. 10 A			
Frequency		50/60 Hz			
Output					
Output voltage		5 V DC SELV, ± 1 %, 4.2...6 V adjustable	12 V DC SELV, ± 1 %, 12...15 V adjustable		
Nom. output current		3 A (+40 °C), 2.5 A (+55 °C)	1 A (+50 °C), 0.8 A (+60 °C)	2.5 A (+40 °C); 2.1 A (+55 °C)	
Efficiency		0.8	0.77	0.82	
Mains failure bridging		> 30 ms (115 V AC), 180 ms (230 V AC)	> 20 ms (115 V AC), >150 ms (230 V AC)		> 20 ms (115 V AC), > 110 ms (230 V AC)
Ripple		< 20 mV eff	< 50 mV eff		
Spikes		< 120 mV ss	< 300 mV ss		< 120 mV ss
Protection		short-circuit and overload protected			
Status indicator		green LED for output voltage			
Parallel usage/Serial usage		no/yes			
General data					
Guidelines		EN 60950-1, EN 61204-3, EN 55022 B, EN 61000-3-2			
Temperature range		0...+40 °C, up to 55 °C de-rating	0...+50 °C	0...+40 °C, up to 55 °C de-rating	
Relative humidity		5...95 %, no condensation			
Mounting method		DIN-rail mounting to EN 60715 (TH35)			
Weight		0.16 kg	0.13 kg	0.16 kg	
Dimensions	H x B x T x TA ¹⁾	76 x 38 x 80 x 7.5 ¹⁾ mm			
Dimension drawing					

Dimension drawing



¹⁾ TA = terminal depth

Notes

¹⁾ MCS-B primary switch mode meets EN 61000-3-2 guideline.
Mounting adapter for side mounting see page 4.9.2

Primary switch mode – single-phase



Stabilized output voltage

Short-circuit and overload protected

Touch protected to EN 60529 (IP20)

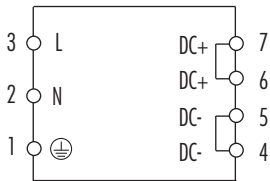
PIP- *Power* +

Approvals:

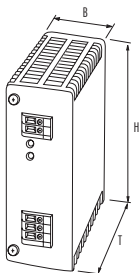
MCS
Input voltage 90...265 V AC



Circuit diagram



Ordering data		Art.-No.	Art.-No.
	Output rating		
12 V DC/ 5 A	60 W	85040	
5 V DC/ 6 A	30 W		85041
Input			
Input voltage	90...265 V AC, 110...300 V DC		
Input current	1.3 A (100 V AC)/0.6 A (240 V AC)		0.6 A (100 V AC)/0.3 A (240 V AC)
Inrush	< 22 A		
Primary fusing	max. 10 A		
Frequency	50/60 Hz		
Output			
Output voltage	12 V DC, SELV ± 1 %; 10...15 V adjustable		5 V DC, SELV ± 1 %; 4...6 V adjustable
Nom. output current	5 A (55 °C); 5...6 A (45 °C)		6 A (60 °C); 6...7.5 A (50 °C)
Efficiency	0.85		0.8
Mains failure bridging	> 70 ms (230 V AC), 10 ms (115 V AC)		> 90 ms (230 V AC), 12 ms (115 V AC)
Ripple	< 20 mV eff		< 10 mV eff
Spikes	< 200 mV ss		< 50 mV ss
Protection	short-circuit and overload protected		
Status indicator	green LED at output voltage		
Parallel usage/Serial usage	no/yes		
General data			
Guidelines	EN 60950-1, EN 61204-3, EN 55022 B, EN 61000-3-2		
Temperature range	0...+55 °C		0...+60 °C
Relative humidity	5...95 %, no condensation		
Mounting method	DIN-rail mounting to EN 60715 (TH35)		
Weight	0.45 kg		0.50 kg
Dimensions	H x B x T	107.5 x 42 x 97.5 mm	
Dimension drawing			



Notes
MCS primary switch mode meets EN 61000-3-2 guideline.
Mounting adapter for side mounting see page 4.9.2