

Technical characteristics						
Power supply type			ABL 8MEM24003	ABL 8MEM24006	ABL 8MEM24012	ABL 7RM24025
Certifications			cULus 508, cCSAus (CSA 22.2 No 950-1), TUV 60950-1, C€, C-Tick			cULus 508, CSA, TUV 60950-1, C€, C-Tick
Conformity to standards	Safety	IEC/EN 60950-1, SELV				
	EMC	IEC/EN 61000-6-2, EN 61000-6-3, IEC/EN 61204-3, EN 55022 Class B				
Input circuit						
LED indication		No				
Input values	Nominal voltage	V	100...240 ~			
	Limit voltage	V	85...264 ~ 120...250 --- (1)			85...264 ~
	Current consumption	A	0.25 (100 V ~) 0.18 (240 V ~)	0.4 (100 V ~) 0.25 (240 V ~)	0.65 (100 V ~) 0.4 (240 V ~)	1.2 (120 V ~) 0.7 (240 V ~)
	Permissible frequencies	Hz	47...63			
	Maximum inrush current	A	20			90 for 1 ms
	Power factor		> 0.5			
	Efficiency at nominal load		> 78%	> 80%	> 82%	> 84%
	Dissipated power at nominal load	W	2	3.8	6.6	11.4
	Output circuit					
LED indication		Green LED				
Nominal output values	Voltage (U _{Out})	V	24 ---			
	Current	A	0.3	0.6	1.2	2.5
	Power	W	7	15	30	60
Precision	Output voltage	V	Adjustable from 22.8 to 28.8			
	Line and load regulation		± 3%			
	Residual ripple - noise	mV	250			200
Holding time for I max.	U _{In} = 100 V ~	ms	≥ 10			
	U _{In} = 230 V ~	ms	≥ 150			
Protection	Against short-circuits		Permanent			
	Against undervoltages	V	–			< 19
	Thermal		Yes			–
Operating and environmental characteristics						
Connections	Input	mm ²	2 x 0.14...2.5 screw terminals (26...14 AWG)			
	Output	mm ²	2 x 0.14...2.5 screw terminals (26...14 AWG)		4 x 0.14...2.5 screw terminals (26...14 AWG)	
Mounting			On  rail, 35 x 7.5 mm and 35 x 15 mm or on panel (2 x Ø 4 mm)			
Operating position			Vertical			
Connections	Series		Possible, see page 15			
	Parallel		Possible, see page 15			
Environment	Operating temperature	°C	- 25...+ 70 (derating from 55°C, see page 15)			- 25...+ 55
	Storage temperature	°C	- 40...+ 70			
	Relative humidity		90% during operation 95% in storage			
	Degree of protection		IP 20 conforming to IEC/EN 60529			
	Vibrations acc. to IEC/EN 61131-2		3...11.9 Hz amplitude 3.5 mm and 11.9 -150 Hz acceleration 2 g			
	Protection class according to VDE 0106 1		Class II			
Dielectric strength 50 Hz for 1 min		V rms	3000 ~			
Input fuse incorporated			Yes (not interchangeable)			
Emissions according to EN 61000-6-3			EN 50081-1 (generic)			
	Radiation		EN 55022 Class B			
	Conducted on the power line		EN 55022 Class B			
	Harmonic currents		IEC/EN 61000-3-2			
Immunity according to IEC/EN 61000-6-2	Electrostatic discharge		IEC/EN 61000-4-2 (6 kV contact/8 kV air)			IEC/EN 61000-4-2 (4 kV contact/8 kV air)
	Radiated electromagnetic fields		IEC/EN 61000-4-3 level 3 (10 V/m)			
	Induced electromagnetic fields		IEC/EN 61000-4-6 level 3 (10 V/m)			
	Rapid transients		IEC 61000-4-4 (4 kV)			
	Surges		IEC/EN 61000-4-5 (1 kV)			
	Primary outages		IEC 61000-4-11 (voltage dips and interruptions)			

(1) cULus 508, cCSAus and TUV 60950-1 certifications are not valid for DC input voltages.