

Modicon Power Supply

Regulated power supply for industrial use, rail mounting

Modicon ABLM Modular power supplies



ABLM1A05036
ABLM1A12021
ABLM1A24012



ABLM1A12010
ABLM1A24004
ABLM1A24006



ABLM1A12042
ABLM1A24025

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Selection of protection on the power supply primary

The device is designed, tested and approved for branch circuits up to 16 A (IEC) and 20 A (UL) without additional protection devices. If external protection is used, do not use circuit breakers smaller than those indicated in the table below to avoid spurious over-current/short-circuit detection by the circuit breaker. Use the Acti9 iC60 range of Miniature Circuit Breakers (1).

Modicon ABLM Modular power supplies	Type of protection
ABLM1A05036	4 A, B or C curve
ABLM1A12010	2 A, B or C curve
ABLM1A12021	4 A, B or C curve
ABLM1A12042	6 A, C curve or 10 A, B-curve
ABLM1A24004	2 A, B or C curve
ABLM1A24006	2 A, B or C curve
ABLM1A24012	4 A, B or C-curve
ABLM1A24025	6 A, C curve or 10 A, B-curve

References

Input voltage	Secondary			Reset after overload or short circuit (4)	Output voltage adjustment potentiometer	Reference	Weight kg/lb
	Output voltage (2)	Nominal power (3)	Nominal current				
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100...240 Vac - 10%, + 10% 50/60 Hz	5 Vdc	18 W	3.6 A	Automatic	With	ABLM1A05036	0.170/ 0.37
	12 Vdc	12 W	1 A	Automatic	Without	ABLM1A12010	0.101/ 0.22
		25 W	2.1 A	Automatic	With	ABLM1A12021	0.170/ 0.37
		50 W	4.17 A	Automatic	With	ABLM1A12042	0.221/ 0.48
	24 Vdc	10 W	0.42 A	Automatic	Without	ABLM1A24004	0.099/ 0.21
		15 W	0.625 A	Automatic	Without	ABLM1A24006	0.101/ 0.22
		30 W	1.25 A	Automatic	With	ABLM1A24012	0.170/ 0.37
		60 W	2.5 A	Automatic	With	ABLM1A24025	0.221/ 0.48

Substitution of Phaseo ABL7/ABL8 with Modicon ABLM Modular power supplies

Old reference	Replaced with
ABL8MEM05040	ABLM1A05036
ABL8MEM12020	ABLM1A12021
ABL8MEM24003	ABLM1A24004
ABL8MEM24006	ABLM1A24006
ABL8MEM24012	ABLM1A24012
ABL7RM24025	ABLM1A24025

Note: in case of substitution into an existing machine, the external protection has to be adapted also.

(1) More information on Acti9 iC60 range on our [website](#).

(2) ABLM power supplies are Limited Power Source conforming IEC 62368-1 and NEC Class 2.

(3) Nominal power given for mounting on horizontal rail and +55°C (131°F) ambient temperature. For other temperatures and mounting positions, Consult the product data sheet ([click on product reference to open it](#)).

(4) In case of overtemperature or overvoltage the input power must be cycled to reset the detected error.