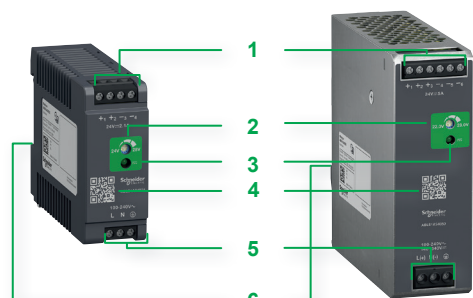




Modicon ABLS
Optimized power
supply

Modicon M221 logic controller



Compact housing
75 mm height (2.95 in)

Book housing
124 mm height (4.88 in)

Modicon ABLS Optimized power supply

Presentation

The Modicon ABLS Optimized are regulated power supplies, designed to supply control circuits in industrial applications from 50 up to 480 W.

- They are available in 2 housing formats for a better adaptation to the enclosure:
 - compact housing 75 mm height (2.95 in)
 - or book housing 124 mm height (4.88 in)
- Available with a width from 27 mm (1.06 in), ABLS optimized power supplies are one of the slimmer ranges on the market
- The printed circuit board of the power supplies (book housing) has a conformal coating in order to resist to common dust and chemical pollutants
- Modicon ABLS Optimized power supply (1) meet NEC Class 2 and LPS (Limited Power Source) requirements
- Up to 6 output terminals make wiring easier
- A QR code is printed on the front of power supply and gives a direct access to the latest technical documentation

Modicon ABLS Optimized power supply are the right choice for use with Modicon M221/M241/M251 logic controllers and Modicon M262 logic/motion controllers (2).

Main Features

Nominal input voltage	100...240 Vac, 140...340 Vdc (3)
Network system compatibility	TN, TT, IT
Nominal output voltage	12, 24 and 48 Vdc
Operating temperature	-20...+70°C (-4...+158°F) (4)
Product certifications	- CE marking - CB Scheme - cULus Listed - cURus Recognized - RCM - EAC
Conformity to standards (5)	- IEC/EN 62368-1 - IEC/EN 61010-1, IEC/EN 61010-2-201 (except ABLS1A24050, ABLS1A24100, ABLS1A48025) - UL/CSA 61010-1, UL/CSA 61010-2-201 (except ABLS1A24050, ABLS1A24100 and ABLS1A48025) - UL 508/CSA C22.2 No. 107.1 (only for ABLS1A24050, ABLS1A24100 and ABLS1A48025)

Description

- 1 Screw terminals for connection of the DC output voltage
- 2 Output voltage adjustment potentiometer (except on ABLM1A24038)
- 3 Output DC status LED (green)
- 4 QR code for access to the latest technical documentation
- 5 Screw terminals for connection of the input voltage (single-phase N-L 1, phase-to-phase L1-L2)
- 6 Spring clip for 35 mm (1.37 in) rail

(1) Depending on model, see [page 9](#).

(2) Consult catalog Ref. [DIA3ED2140106EN](#), Ref. [DIA3ED2140107EN](#), Ref. [DIA3ED2140108EN](#), Ref. [DIA3ED2180503EN](#) (click on [reference](#) to open catalog).

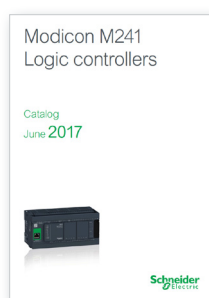
(3) Except ABLS1A24021 and ABLS1A24038.

(4) Derating for temperature higher than 55°C (131°F) at 230 Vac input voltage and 45°C (113°F) at 115 Vac input voltage, Consult the product data sheet (click on [product reference](#) to open it).

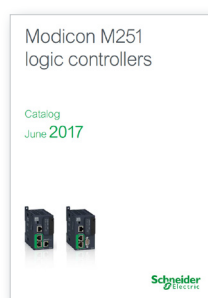
(5) For EMC standard, Consult the product data sheet (click on [product reference](#) to open it).



[DIA3ED2140106EN](#)



[DIA3ED2140107EN](#)



[DIA3ED2140108EN](#)



[DIA3ED2180503EN](#)