Catalog | November 2026



Modicon ABL2

Regulated switch mode power supplies
Panel Mounting, DIN rail Mounting

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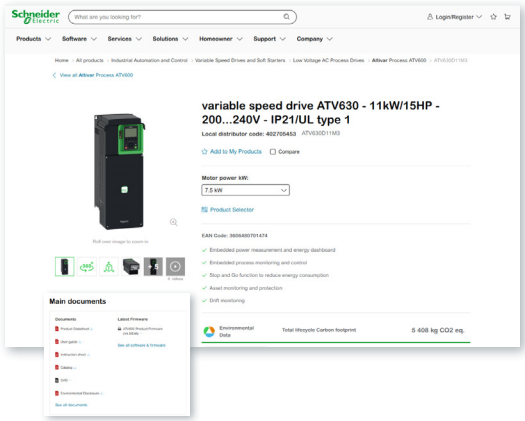


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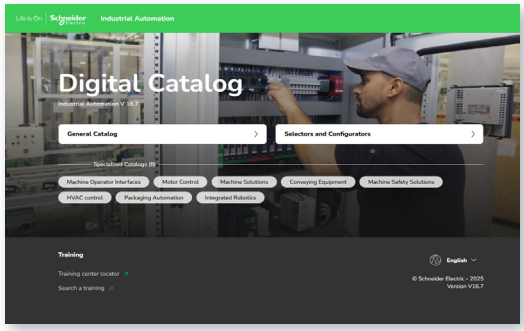
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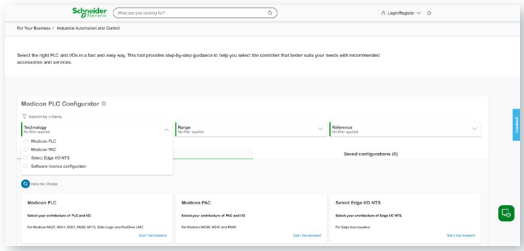
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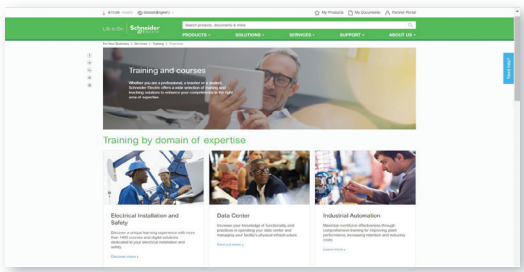
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DIN rail Mounting power supplies

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Modicon ABL2
Regulated switch mode power supplies

The Modicon ABL2 range consists of regulated switch-mode power supplies, available in both single-phase and three-phase versions. They deliver the DC voltage required to power electrical equipment in low-voltage automation and control systems, including PLCs, HMIs, sensors, and related devices.

Type	**Panel mounting**	**DIN rail mounting**	
Mounting type	**ABL2REM●●●●●K**	**ABLS●●●●●E**	**ABL2THP●●●●●D**
			
Input voltage range	100…240 VAC (universal)	100…240 VAC (+ DC compatible)	380...500 VAC
Output voltage	24 VDC	12/24/48 VDC	24/48 VDC
Power range	35…350 W	75…960 W	240…960 W
Cooling	Natural convection or internal fan	Passive convection	Passive convection
Efficiency (typ.)	> 88%	High efficiency	High efficiency
MTBF	> 600,000 h	Industrial-grade	Industrial-grade
Voltage selection	Automatic or manual (model-dependent)	Automatic	Automatic
Protection	Overload, short-circuit, hiccup restart	Constant-current or shutdown mode	Automatic recovery
Installation density	Compact	High power density	High power density
Typical applications	OEM machines, export, packaging, material handling	Control cabinets, infrastructure, high-load systems	Control cabinets, infrastructure, high-load systems

Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)



Panel mounting (ABL2REM●●●●●K)

Panel mounting (ABL2REM●●●●●K)

Presentation

- **ABL2REM●●●●●K** power supplies are fully electronic and have a regulated switch mode. The use of electronics makes it possible to significantly improve the efficiency of these power supplies, which offer:
  - Compact dimensions *(See page 4.)*
  - Wide power range from 35 to 350 W
  - High degree of output voltage stability (precision: ± 1%)
  - Proven performance (MTBF over 600K hours)
  - Diagnostics via LEDs at the output terminal
- These power supplies also provide the following protection functions:
  - Integrated output/overload/overvoltage and short-circuit protection with Hiccup restart for all models and overtemperature for models from 200 to 350 W
  - Input overvoltage protection
  - Protective terminal cover to prevent direct finger contact, helping to protect against electric shock hazards
  - Specially designed hole in casing to help prevent risk of short-circuit with long screws.

Applications

ABL2REM●●●●●K power supplies meet the needs encountered in standard commercial machines and conform to worldwide standards.
They can be widely used with other electronic appliances and systems in the industry. OEMs and panel builders can easily integrate it into their machines or machine control panels.

- OEMs can integrate these power supplies in simple machines used in the following fields:
  - Material handling
  - Textile machine
  - Packaging
  - Machine tools
  - Food & Beverage
- Panel builders can integrate them in control panels installed in the following fields:
  - Construction
  - Lift
  - Automobile industry
  - Chemical industry
  - Municipal buildings
  - Infrastructure

Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)

Panel mounting (ABL2REM●●●●●K)

A user-oriented range of products

Fit for purpose

- **ABL2REM●●●●●K** are more compact than previous ABL2 versions (up to 20% smaller). They are also smaller than other models currently available on the market, thus saving space inside a cabinet for other electric appliances.
- Moreover, the high performance of these products (24 VDC stable output) means less downtime and their high-efficiency design means lower energy consumption.

Ease of use throughout the whole life cycle

- **ABL2REM●●●●●K** power supplies can be mounted quickly and easily owing to the specially designed mounting holes in their casing which help to prevent mistakes.
- In addition, 3 types of mounting are available for more flexibility with the use of accessories:
  - mounting on rear 35 mm *(1.37 in.)* ⊥⌐ rails
  - mounting with 4-corner bracket
  - mounting with L-type accessories
- New, improved labeling and packaging help to ensure quick identification and offer a better view of the products (their appearance is printed on the box).
- For existing installations, non-Schneider power supplies can easily be replaced (same installation dimensions, same mounting hole locations) *(1)*.

Robustness

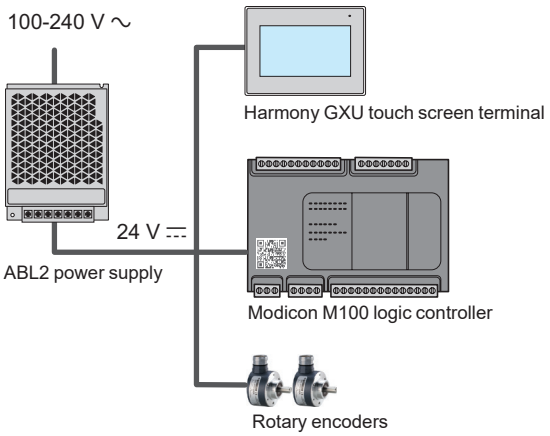
ABL2REM●●●●●K power supplies have been designed to meet the majority of customer specifications:

- They feature short circuit protection as well as overload protection with an auto-recovery mode (automatic protection reset). This means that the protection resets itself automatically on elimination of the detected fault, which avoids the need to take any action or change a fuse.
- They are equipped with an input voltage (100-240 VAC) smart switch offering increased performance and durability.
- They can operate within a wide temperature range.

Widely available

- Fast delivery through a large distribution network
- Fast access to information and support through the Partner Relationship Management tool and a dedicated network of engineers

Control architecture

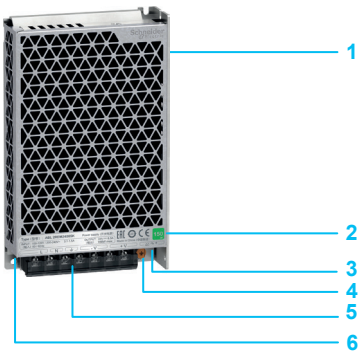


(1) The position of the mounting holes on the casing varies slightly compared with previous ABL2 power supply ranges. See dimensions on our website.

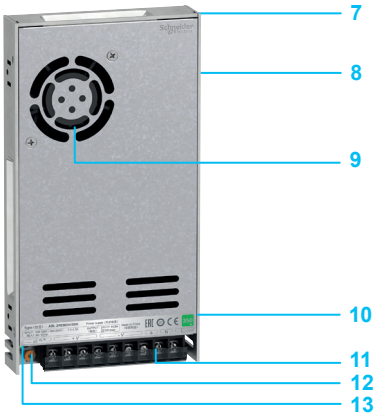
Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)



Power supplies with natural convection



Power supplies with forced air cooling by built-in DC fan

Panel mounting (ABL2REM●●●●●K)

Main characteristics

Nominal input voltage	100-240 VAC, single-phase (240 V DC compliant)
Output voltage	24 VDC
Efficiency	> 88%
Vibration resistance	4 G
Ambient air temperature	□ For 150 W models: - -30...+45 °C *(-22...113 °F)* without derating - 45...70 °C *(113...158 °F)* with derating □ For 35 W, 50 W, 100 W, 200 W, 250 W, and 350 W models: - -30...+50 °C *(-22...122 °F)* without derating - 50...70 °C *(122...158 °F)* with derating
Ambient humidity	10...95% around the device):
Altitude	0...5000 m *(16404,2 ft)(1)*
Thermal design	Efficient cooling with triangle holes
Product certifications	□ CE □ Safety standard: EN62368-1 compliant □ EMC standard: EN 61000-6-2, EN 61000-6-4, EN 55032 Class B □ RoHS directives compliant

For more technical information, visit our website.

Description

Power supplies with natural convection

1 100/240 VAC input voltage selector (on 150 and 200 W models only)
2 Technical information
3 A green LED indicating status of the DC output voltages
4 An output voltage adjustment potentiometer (± 15%)
5 A 4 mm^2 screw clamp terminal block (equipped with plastic protective cover as standard) for connection of the AC input voltage and DC output voltage
6 Fixing holes for panel mounting with M3 screws (excluding 200 W model). Four fixing holes for 4-corner bracket mounting with M4 screws (on 200 W model only)

Power supplies with forced air cooling by built-in DC fan

7 Four fixing holes for mounting with 4-corner bracket (**ABL2K01**) and M4 screws
8 100/240 VAC input voltage selector (on 250 and 350 W models)
9 Built-in DC fan
10 Technical information
11 A 4 mm^2 screw clamp terminal block (equipped with plastic protective cover as standard) for connection of the AC input voltage and DC output voltage
12 An output voltage adjustment potentiometer (± 15%)
13 A green LED indicating status of the DC output voltages

Dimensions (overall)

Model	Reference	Dimensions (Height x Width x Depth)	
		mm	in.
35 W	ABL2REM24015K	99 x 82 x 30	*3.90 x 3.23 x 1.17*
50 W	ABL2REM24020K		
100 W	ABL2REM24045K	129 x 97 x 30	*5.08 x 3.78 x 1.17*
150 W	ABL2REM24065K	159 x 97 x 30	*6.20 x 3.78 x 1.17*
200 W	ABL2REM24085K	215 x 115 x 30	*4.53 x 8.46 x 1.17*
250 W	ABL2REM24100K		
350 W	ABL2REM24150K		

(2) The ambiant temperature derating of 5 °C (41 °F)/1000 m (3280.8 ft) is needed for operating altitude greater than 2000 m (6561.7 ft).

Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)



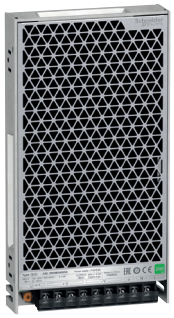
ABL2REM24015K
ABL2REM24020K



ABL2REM24045K



ABL2REM24065K



ABL2REM24085K



ABL2REM24100K
ABL2REM24150K



ABL2K01



ABL2K02



ABL2K03A



ABL2K03B

Panel mounting (ABL2REM●●●●●K)

References

Model	Input voltage	Output voltage	Nominal power	Output current	Voltage switching	Overload hiccup protection	Reference	Weight kg *lb*
Power supplies with natural convection								
35 W	100...240 VAC	24 VDC	36 W	1.5 A	Automatic	110-160%	ABL2REM24015K	0.230 *0.507*
50 W	100...240 VAC	24 VDC	53 W	2.2 A	Automatic	110-160%	ABL2REM24020K	0.250 *0.551*
100 W	100...240 VAC	24 VDC	108 W	4.5 A	Automatic	110-160%	ABL2REM24045K	0.350 *0.772*
150 W	100...120 V AC 200...240 VAC	24 VDC	156 W	6.5 A	Manual	110-160%	ABL2REM24065K	0.440 *0.970*
200 W	100...120 V AC 200...240 VAC	24 VDC	200 W	8.3 A	Manual	110-150%	ABL2REM24085K	0.730 *1.609*
Power supplies With forced air cooling by built-in DC fan								
250 W	100...120 V AC 200...240 VAC	24 VDC	252 W	10.5 A	Manual	110-150%	ABL2REM24100K	0.750 *1.653*
350 W	100...120 V AC 200...240 VAC	24 VDC	351 W	14.6 A	Manual	110-150%	ABL2REM24150K	0.790 *1.742*

Options for ABL2REM●●●●●K power supplies

Type of mounting accessory	Description	For power supplies	Sold in lots of	Unit reference	Weight kg lb
4-corner bracket	For direct mounting on back panel Mounting screws not provided. Recommended use: M4 (6 mm/ *0.24 in*) or M4 (8 mm/ *0.31 in*) screws	ABL2REM24085K, ABL2REM24100K, ABL2REM24150K	40	ABL2K01	0.003 *0.007*
Clip-on mounting plate	For mounting on 35 mm *(1.37 in.)* DIN rail	All models	5 *(1)*	ABL2K02	0.028 *0.062*
L-type accessories	Size: Small L	ABL2REM24015K, ABL2REM24020K, ABL2REM24045K, ABL2REM24065K	1	ABL2K03A	0.110 *0.240*
	Size: Big L	ABL2REM24085K, ABL2REM24100K, ABL2REM24150K	1	ABL2K03B	0.150 *0.331*

(1) ABL2K02 is a pack of 5 accessories usable on 35 mm (1.37 in.) ⊥ rails. Note that only 1 accessory is necessary for mounting a 35 to 150 W model but 2 accessories are needed for the other three models (200, 250, and 350 W).

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting (ABLS●●●●●E)

DIN rail mounting(ABLS●●●●● E)

Presentation

The Modicon ABLS are Regulated switch mode power supplies, Single-phase, to provide the DC voltage necessary for electrical equipment operating in a low-voltage automation and control system (PLC, HMI, sensors, etc.) from 75 up to 960 W.

They offer:

- Power ratings including 75 W, 120 W, 240 W, 480 W, and 960 W
- Rated input Voltage:
  - 100-240 VAC for 75 W, 120 W, 240 W, and 480 W
  - 200-240VAC for 960 W
- Rated output Voltage: 12, 24 and 48 VDC
- Up to 6 output terminals for easy wiring

Main characteristics

Nominal input voltage	100…240 VAC, compatible with 140…340 VDC 200...240 VAC, compatible with 280…340 VDC
Network system compatibility	TN, TT, IT
Nominal output voltage	12 , 24 and 48 VDC
Operating temperature	-20…+70°C *(-4…+158°F) (1)*
Product certifications	□ CE □ cUL □ RoHS compliant □ REACH compliant
Conformity to standards	□ IEC/EN 62368-1 □ EN 61000-6-2 □ EN 61000-6-4 □ UL 508 □ CSA C22.2 NO. 107.1

For more technical information, visit our website.



Description

1 Screw terminals for connection of the DC output voltage
2 QR code for access to the Technical documentation
3 Output DC status LED (green)
4 Output voltage adjustment potentiometer
5 Screw terminals for connection of the intput voltage (single-phase N-L1, ⏚)

(1) Derating for temperature higher than 50°C (122°F) at lowest input voltage and other mounting.

Dimensions (overall)

Reference	Dimensions (Height x Width x Depth)	
	mm	*in.*
ABLS1A12060E ABLS1A24030E	125 x 32 x 102	*4.92 x 1.26 x 4.02*
ABLS1A12100E ABLS1A24050E	125 x 36 x 113	*4.92 x 1.42 x 4.45*
ABLS1A24100E	125 x 60 x 113	*4.92 x 2.36 x 4.45*
ABLS1A24200E ABLS1A48100E	125 x 85 x 128	*4.92 x 3.34 x 5.04*
ABLS1A24400E ABLS1A48200E	125 x 110 x 150	*4.92 x 4.33 x 5.90*

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting (ABLS●●●●●E)



ABLS1A12060E
ABLS1A24030E



ABLS1A12100E
ABLS1A24050E



ABLS1A24100E



ABLS1A24200E
ABLS1A48100E



ABLS1A24400E
ABLS1A48200E

DIN rail mounting(ABLS●●●●● E)

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)*.

References

Input voltage	Output voltage	Nominal power *(2)*	Nominal current	Protection mode for overload or short circuit	Output voltage adjustment potentiometer	Reference	Weight kg *lb*
100...240 VAC 50/60 Hz (compatible with 140...340 VDC)	12 VDC	75.6 W	6.3 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A12060E	0.396/ *0.873*
		120 W	10 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A12100E	0.451/ *0.994*
	24 VDC	76.8 W	3.2 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24030E	0.396/ *0.873*
		120 W	5 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24050E	0.451/ *0.994*
		240 W	10 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24100E	0.935/ *2.061*
		480 W	20 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	ABLS1A24200E	1.320/ *2.910*
	48 VDC	480 W	10 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	ABLS1A48100E	1.320/ *2.910*
200...240 VAC (compatible with 280...340 VDC)	24 VDC	960 W	40 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	ABLS1A24400E	2.200/ *4.85*
	48 VDC	960 W	20 A	Constant current mode, shutting down after time delay. Re-power on to recover	With	ABLS1A48200E	2.200/ *4.85*

*(1) More information on **Acti9 iC60** range, visit our website.*
(2) Nominal power given for mounting on horizontal rail, for 230 VAC input voltage and for +50°C (131°F) ambiant temperature.

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting (ABL2THP●●●●●D)



DIN rail mounting (ABL2THP●●●●●D)

DIN rail mounting (ABL2THP●●●●●D)

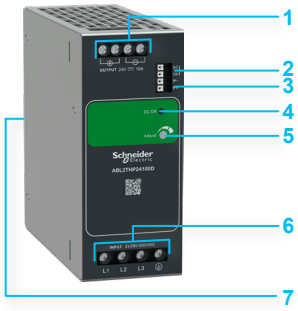
Presentation

ABL2THP●●●●●D are regulated switch-mode power supplies, Three-phase, designed for DIN-rail mounting, intended to supply control circuits in industrial applications, with power ratings ranging from 240 W to 960 W.
They offer:

- Power ratings including 240 W, 480 W, and 960 W
- Rated input Voltage: 380...500 VAC
- 150% peak load capability
- Built-in DC OK relay contact
- Parallel use function

Main characteristics

Nominal input voltage	380...500 VAC
Network system compatibility	TN, TT, IT
Nominal output voltage	24 and 48 VDC
Operating temperature	-40…+70 °C *(-40…+158 °F) (1)*
Product certifications	□ CE □ UL □ CB
Conformity to standards	□ Safety: EN 61010-1, EN 61010-2-201, UL 61010-1, UL 61010-2-201, EN 62368-1 □ EMC: EN 61000-6-2, EN 61000-6-4, EN 61204-3, EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3
Cooling	Passive convection
Efficiency (typ.)	High efficiency
MTBF	Industrial-grade
Installation density	High power density
Typical applications	Control cabinets, infrastructure, high-load systems



Description

1 Screw terminals for connection of the DC output voltage
2 DC OK relay contact
3 Parallel Use pin
4 Output DC status LED
5 Output voltage adjustment potentiometer
6 Screw terminals for connection of the input voltage
7 Clip-on lock for 35 mm *(1.38 in.)* top hat section rail (DIN rail)

(1) Temperature Derating:
□ *240 W and 480 W models: Derating applies at ambient temperatures below -30°C (-22°F) and above 60°C (140°F).*
□ *960 W model: Derating applies at ambient temperatures below -30°C (-22°F) and above 55°C (131°F).*

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting (ABL2THP●●●●●D)



ABL2THP24100D



ABL2THP24200D



ABL2THP24400D



ABL2THP48050D



ABL2THP48100D



ABL2THP48200D

DIN rail mounting (ABL2THP●●●●●D)

Dimensions (overall)

Reference	Dimensions (Height x Width x Depth)	
	mm	*in.*
ABL2THP24100D	125 x 52 x 125.5	*4.92 x 2.05 x 4.94*
ABL2THP24200D	125 x 75 x 125.5	*4.92 x 2.95 x 4.94*
ABL2THP24400D	125 x 110 x 125.5	*4.92 x 4.33 x 4.94*
ABL2THP48050D	125 x 52 x 125.5	*4.92 x 2.05 x 4.94*
ABL2THP48100D	125 x 75 x 125.5	*4.92 x 2.95 x 4.94*
ABL2THP48200D	125 x 110 x 125.5	*4.92 x 4.33 x 4.94*

References

Input voltage	Output voltage	Nominal power *(1)*	Nominal current	Protection mode for overload or short circuit	Output voltage adjustment potentiometer	Reference	Weight kg *lb*
380...500 VAC 50/60 Hz	24 VDC	240 W	10 A	Automatic recovery	With	ABL2THP24100D	1.000 *2.205*
		480 W	20 A	Automatic recovery	With	ABL2THP24200D	1.500 *3.307*
		960 W	40 A	Automatic recovery	With	ABL2THP24400D	2.000 *4.409*
	48 VDC	240 W	5 A	Automatic recovery	With	ABL2THP48050D	1.000 *2.205*
		480 W	10 A	Automatic recovery	With	ABL2THP48100D	1.500 *3.307*
		960 W	20 A	Automatic recovery	With	ABL2THP48200D	2.000 *4.409*

(1) Nominal power given for mounting on horizontal rail, for 230 VAC input voltage and for +50 °C (131 °F) ambiant temperature.

Modicon ABL2

Regulated switch mode power supplies

Redundancy Modules for ABL2 DIN-Rail Power Supplies

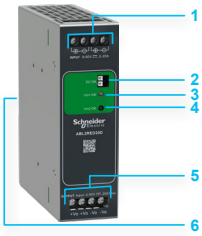
Redundancy modules for ABL2 DIN-Rail Power Supplies

Presentation

- The redundancy modules are designed to ensure continuity of service in the event of a power supply failure. In applications where uninterrupted operation is critical, it is essential to ensure that if one power supply becomes unavailable, a secondary power source automatically takes over.
- **ABL2RED2●D** redundancy modules fulfill this requirement by managing power distribution among supplies. They ensure that a failure or malfunction in one power supply does not affect the operation of the others. For example, in the event of a short circuit on one output, the module isolates the fault, allowing the remaining power supply to continue supporting the application without interruption.
- **ABL2RED2●D** redundancy modules are CE, UL, and CB certified and complies with the following safety standards: EN 61010-1, EN 61010-2-201, and UL 62368-1.

Compatibility

Redundancy module	Compatible power supply
ABL2RED20D ABL2RED40D	**ABLS1A12060E, ABLS1A12100E, ABLS1A24030E, ABLS1A24050E, ABLS1A24100E, ABLS1A24200E, ABLS1A24400E, ABLS1A48100E, ABLS1A48200E**
	ABL2THP24100D, ABL2THP24200D, ABL2THP24400D, ABL2THP48050D, ABL2THP48100D, ABL2THP48200D



Description

1 Screw terminals for connection of the DC input voltage
2 DC OK relay contact *(1)*
3 Input1 DC status LED *(2)*
4 Input2 DC status LED *(2)*
5 Screw terminals for connection of the output voltage
6 Clip-on lock for 35 mm (1.38 in.) top hat section rail (DIN rail)



ABL2RED20D



ABL2RED40D

References

Designation	Functionality	Dimensions (Height x Width x Depth) mm *(in.)*	Nominal Input Current	Reference	Weight kg/*lb*
Redundancy module	Continuity of service after a failure of power supply equipment	125 x 38 x 110 *(4.92 x 1.50 x 4.33)*	0-20 A	ABL2RED20D	0.350 *0.772*
		125 x 48 x 110 *(4.92 x 1.89 x 4.33)*	0-40 A	ABL2RED40D	0.400 *0.882*

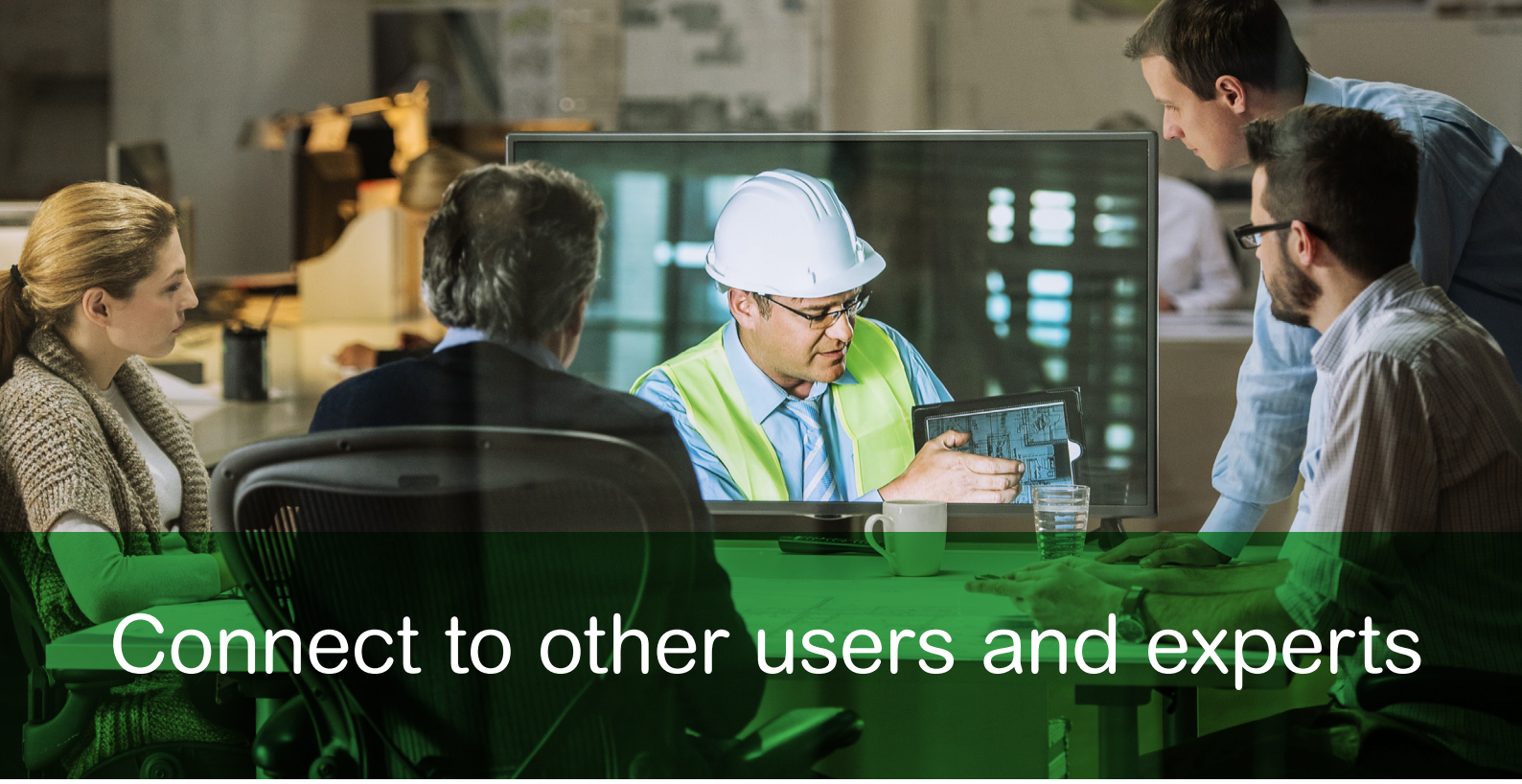
(1) DC OK Relay: When both Vin1 (input voltage 1) and Vin2 (input voltage 2) inputs are normal (LEDs ON), the DC OK relay is energized.
(2) LED Indicator: When the voltage difference between Vin1 and Vin2 exceeds 3 V (typical value), the LED for the input channel with the lower voltage turns OFF. If either Vin1 or Vin2 has no input, the LED for the corresponding channel remains OFF.

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting, Panel mounting

ABL2	
ABL2K01	6
ABL2K02	6
ABL2K03A	6
ABL2K03B	6
ABL2RED20D	11
ABL2RED40D	11
ABL2REM24015K	5 6
ABL2REM24020K	5 6
ABL2REM24045K	5 6
ABL2REM24065K	5 6
ABL2REM24085K	5 6
ABL2REM24100K	5 6
ABL2REM24150K	5 6
ABL2THP24100D	10 11
ABL2THP24200D	10 11
ABL2THP24400D	10 11
ABL2THP48050D	10 11
ABL2THP48100D	10 11
ABL2THP48200D	10 11
ABLS1A12060E	7 8 11
ABLS1A12100E	7 8 11
ABLS1A24030E	7 8 11
ABLS1A24050E	7 8 11
ABLS1A24100E	7 8 11
ABLS1A24200E	7 8 11
ABLS1A24400E	7 8 11
ABLS1A48100E	7 8 11
ABLS1A48200E	7 8 11



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