



Modicon ABL2

Regulated switch mode power supplies
Panel Mounting, DIN rail Mounting



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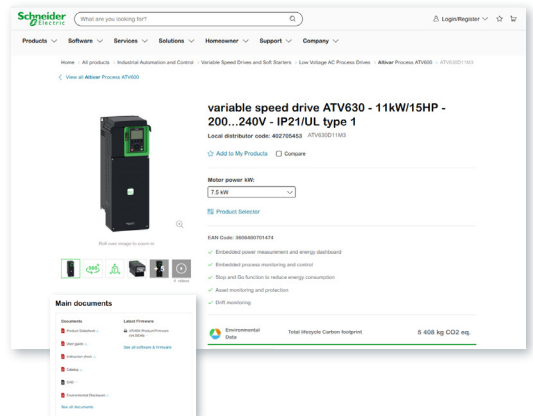


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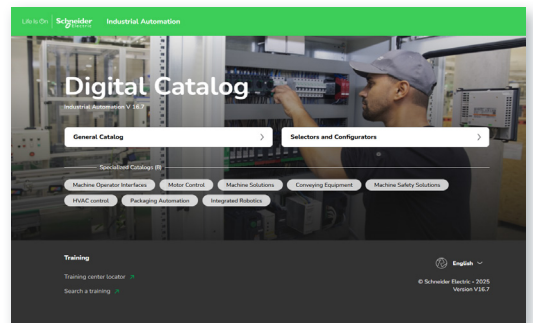
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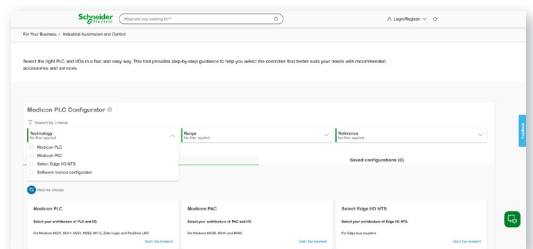
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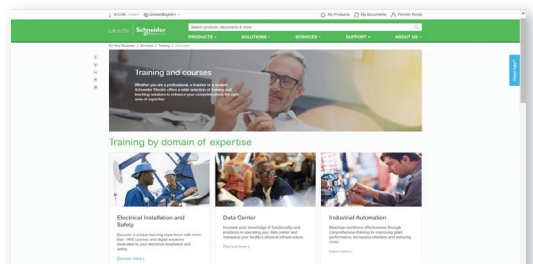
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Regulated switch mode power supplies

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Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)

The Modicon ABL2 are Regulated switch mode power supplies, Single-phase, and provide the DC voltage necessary for electrical equipment operating in a low-voltage automation and control system (PLC, HMI, sensors, etc.).

Mounting type	ABL2REM●●●●●K	ABL2REM●●●●●KL	ABLS●●●●●E
	Panel mounting	Panel mounting	DIN rail mounting
			
Input voltage range	100...240 VAC (universal)	200...240 VAC	100...240 VAC (+ DC compatible)
Output voltage	24 VDC	24 VDC	12 / 24 / 48 VDC
Power range	35...350 W	35...350 W	75...960 W
Cooling	Natural convection or internal fan	Natural convection or internal fan	Passive convection
Efficiency (typ.)	> 88%	> 86%	High efficiency
MTBF	> 600,000 h	> 300,000 h	Industrial-grade
Voltage selection	Automatic or manual (model-dependent)	Automatic	Automatic
Protection	Overload, short-circuit, hiccup restart	Overload, short-circuit, hiccup restart	Constant-current or shutdown mode
Installation density	Compact	Compact	High power density
Typical applications	OEM machines, export, packaging, material handling	Fixed 230 VAC panels, standardized machines	Control cabinets, infrastructure, high-load systems



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.) \perp 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

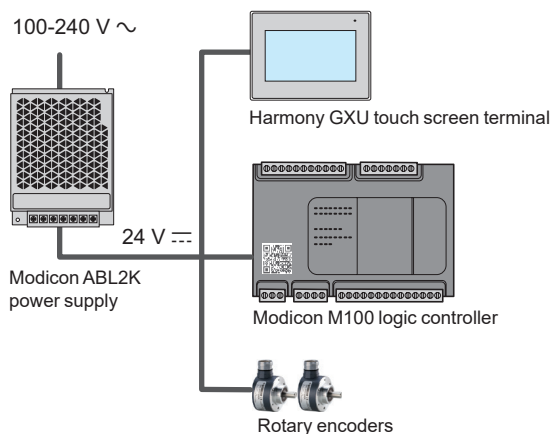
ABL2REM●●●●●K power supplies have been designed to meet the majority of customer specifications:

- 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. Please see dimensions on our [website](#).

Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●K)

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	<input type="checkbox"/> For 150 W models: - -30...+45 °C (-22...113 °F) without derating - 45...70 °C (113...158 °F) with derating <input type="checkbox"/> 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	<input type="checkbox"/> EAC, KC and RCM <input type="checkbox"/> Safety standard: EN62368-1 compliant <input type="checkbox"/> EMC standard: EN 61000-6-2, EN 61000-6-4, EN 55032 Class B <input type="checkbox"/> 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 ($\pm 15\%$)
- 5 A 4 mm² 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)

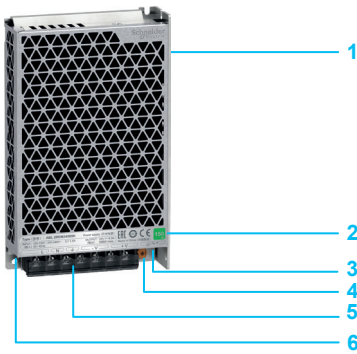
Power supplies with forced air cooling by built-in DC fan

- 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 mm² 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 ($\pm 15\%$)
- 13 A green LED indicating status of the DC output voltages

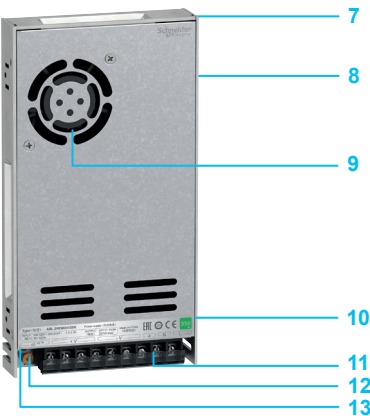
Dimensions (overall)

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 , 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 4.46 x 1.17
250 W	ABL2REM24100K		
350 W	ABL2REM24150K		

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



Power supplies with natural convection



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

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
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100 W	100...240 VAC	24 VDC	108 W	4.5 A	Automatic	110-160%	ABL2REM24045K	0.350 0.772
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150 W	100...120 V AC 200...240 VAC	24 VDC	156 W	6.5 A	Manual	110-160%	ABL2REM24065K	0.440 0.970
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200 W	100...120 V AC 200...240 VAC	24 VDC	200 W	8.3 A	Manual	110-150%	ABL2REM24085K	0.730 1.609
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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
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350 W	100...120 V AC 200...240 VAC	24 VDC	351 W	14.6 A	Manual	110-150%	ABL2REM24150K	0.790 1.742
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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.) DIN rails. Please 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

Panel mounting (ABL2REM●●●●●KL)



Panel mounting (ABL2REM●●●●●KL)

Panel mounting (ABL2REM●●●●●KL)

Presentation

- **ABL2REM●●●●●KL** 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 8.](#))
 - Wide power range from 35 to 350 W
 - High degree of output voltage stability (precision: $\pm 1\%$)
 - Proven performance (MTBF over 300K 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 150 to 350 W
 - 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●●●●●KL 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:
 - Material handling
 - Textile machine
 - Packaging
 - Machine tools
 - Food & Beverage
- Panel builders can integrate them in control panels installed in:
 - Construction
 - Lift
 - Automobile industry
 - Chemical industry
 - Infrastructure

Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●KL)

Panel mounting (ABL2REM●●●●●KL)

A user-oriented range of products

Fit for purpose

- The high performance of **ABL2REM●●●●●KL** power supplies (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●●●●●KL** 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, two types of mounting are available for more flexibility with the use of accessories:
 - 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).

Robustness

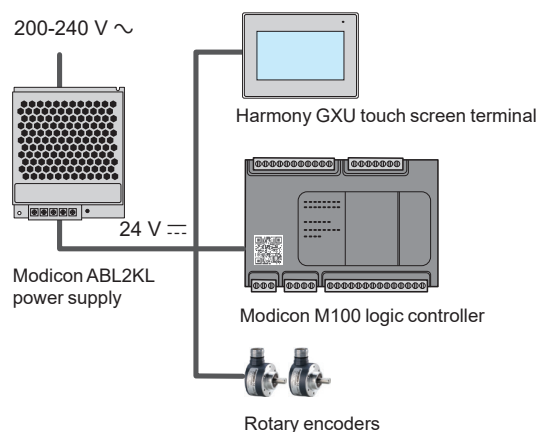
ABL2REM●●●●●KL power supplies have been designed to meet the majority of customer specifications:

- 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 (200-240 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



Modicon ABL2

Regulated switch mode power supplies

Panel mounting (ABL2REM●●●●●KL)

Panel mounting (ABL2REM●●●●●KL)

Main characteristics

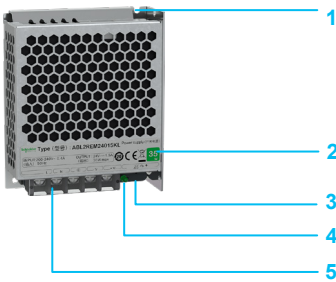
Nominal input voltage	200-240 VAC, single-phase (240 VDC compliant)
Output voltage	24 VDC
Efficiency	> 86%
Vibration resistance	4 G
Ambient air temperature	<input type="checkbox"/> -30...+50 °C (-22...122 °F) without derating <input type="checkbox"/> 50...70 °C (122...158 °F) with derating (1)
Ambient humidity	10...95% around the device:
Altitude	0...5000 m (16404,2 ft) (2)
Thermal design	Efficient cooling with hexagon holes
Product certifications	<input type="checkbox"/> CE <input type="checkbox"/> Safety standard: EN 62368-1 compliant <input type="checkbox"/> EMC standard: - EN 61000-6-2 - EN 61000-6-4 - EN 55032 Class B (200W and 350W: Class A), base plate mount <input type="checkbox"/> RoHS directives compliant

For more technical information, visit our [website](#).

Description

Power supplies with natural convection

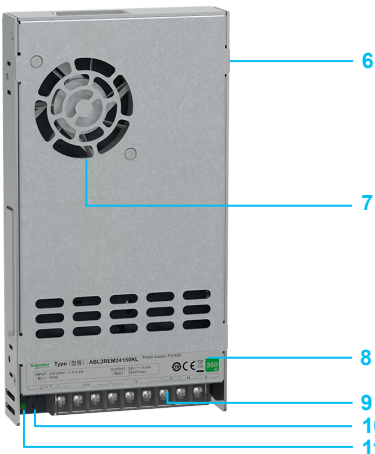
- 1 Fixing holes for panel mounting with M3 screws (200 W model with M4 screws). Four fixing holes for 4-corner bracket mounting with M4 screws (on 200 W model only)
- 2 Technical information
- 3 An output voltage adjustment potentiometer (- 10...+20%)
- 4 A green LED indicating status of the DC output voltages
- 5 A 4 mm² screw clamp terminal block (equipped with plastic protective cover as standard) for connection of the AC input voltage and DC output voltage



Power supplies with natural convection

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

- 6 Fixing holes for panel mounting with M4 screws. Four fixing holes for 4-corner bracket mounting with M4 screws
- 7 Built-in DC fan
- 8 Technical information
- 9 A 4 mm² screw clamp terminal block (equipped with plastic protective cover as standard) for connection of the AC input voltage and DC output voltage
- 10 An output voltage adjustment potentiometer (- 10...+20%)
- 11 A green LED indicating status of the DC output voltages



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

Dimensions (overall)

Model	Reference	Dimensions (Height x Width x Depth)	
		mm	in.
35 W	ABL2REM24015KL	99 x 82 x 30	3.90 x 3.23 x 1.18
50 W	ABL2REM24020KL		
100 W	ABL2REM24045KL	130 x 97 x 30	5.12 x 3.82 x 1.18
150 W	ABL2REM24065KL	160 x 97 x 30	6.30 x 3.82 x 1.18
200 W	ABL2REM24085KL	215 x 115 x 30	8.46 x 4.53 x 1.18
350 W	ABL2REM24150KL		

(1) Please visit our [website](#) for more information about derating.

(2) The ambient 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●●●●●KL)



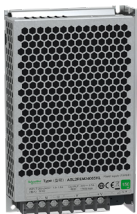
ABL2REM24015KL



ABL2REM24020KL



ABL2REM24045KL



ABL2REM24065KL



ABL2REM24085KL



ABL2REM24150KL



ABL2K01



ABL2K03A ABL2K03B

Panel mounting (ABL2REM●●●●●KL)

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	200...240 VAC	24 VDC	36 W	1.5 A	Automatic	110-160%	ABL2REM24015KL	0.163 0.359
50 W	200...240 VAC	24 VDC	53 W	2.2 A	Automatic	110-160%	ABL2REM24020KL	0.190 0.418
100 W	200...240 VAC	24 VDC	108 W	4.5 A	Automatic	110-160%	ABL2REM24045KL	0.300 0.661
150 W	200...240 VAC	24 VDC	156 W	6.5 A	Automatic	110-160%	ABL2REM24065KL	0.390 0.859
200 W	200...240 VAC	24 VDC	211 W	8.8 A	Automatic	110-160%	ABL2REM24085KL	0.600 1.322

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

350 W	200...240 VAC	24 VDC	350 W	14.6 A	Automatic	110-160%	ABL2REM24150KL	0.690 1.521
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Options for ABL2REM●●●●●KL 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	ABL2REM24085KL, ABL2REM24150KL	40	ABL2K01	0.003 0.007
L-type accessories	Size: Small L	ABL2REM24015KL, ABL2REM24020KL, ABL2REM24045KL, ABL2REM24065KL	1	ABL2K03A	0.110 0.240
	Size: Big L	ABL2REM24085KL, ABL2REM24150KL	1	ABL2K03B	0.150 0.331

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 input voltage (single-phase N-L1, \perp)

(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	125 x 32 x 102	4.92 x 1.26 x 4.02
ABLS1A24030E		
ABLS1A12100E	125 x 36 x 113	4.92 x 1.42 x 4.45
ABLS1A24050E		
ABLS1A24100E	125 x 60 x 113	4.92 x 2.36 x 4.45
ABLS1A24200E	125 x 85 x 128	4.92 x 3.34 x 5.04
ABLS1A48100E		
ABLS1A24400E	125 x 110 x 150	4.92 x 4.33 x 5.90
ABLS1A48200E		

Modicon ABL2

Regulated switch mode power supplies

DIN rail mounting (ABLS●●●●●E)

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
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



ABLS1A12060E
ABLS1A24030E



ABLS1A12100E
ABLS1A24050E



ABLS1A24100E



ABLS1A24200E
ABLS1A48100E



ABLS1A24400E
ABLS1A48200E

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

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

A	
ABL2K01	5
	9
ABL2K02	5
ABL2K03A	5
	9
ABL2K03B	5
	9
ABL2REM24015K	4
	5
ABL2REM24015KL	8
	9
ABL2REM24020K	4
	5
ABL2REM24020KL	8
	9
ABL2REM24045K	4
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ABL2REM24045KL	8
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ABL2REM24065K	4
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ABL2REM24065KL	8
	9
ABL2REM24085K	4
	5
ABL2REM24085KL	8
	9
ABL2REM24100K	4
	5
ABL2REM24150K	4
	5
ABL2REM24150KL	8
	9
ABLS1A12060E	10
	11
ABLS1A12100E	10
	11
ABLS1A24030E	10
	11
ABLS1A24050E	10
	11
ABLS1A24100E	10
	11
ABLS1A24200E	10
	11
ABLS1A24400E	10
	11
ABLS1A48100E	10
	11
ABLS1A48200E	10
	11

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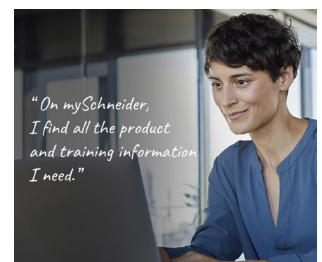
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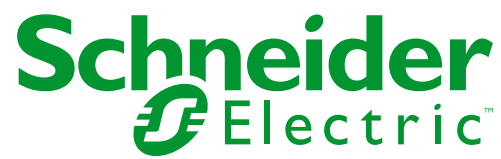
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