Presentation, description

Power supplies and transformers Phaseo

Regulated switch mode power supplies ABL1REM/1RPM 60 to 240 W - Mounting on panel



ABL1REM/1RPM Phaseo range regulated switch mode power supplies

Presentation

ABL1REM/1RPM Phaseo range regulated switch mode power supplies are specially designed to provide the d.c. voltage necessary for electrical equipment operating on a safety extra low voltage (SELV). Split into two ranges, they are able to meet the needs encountered in standard commercial machines.

These single-phase power supplies, with or without anti-harmonic distortion filter, conform to world-wide standards. Switch mode technology guarantees the quality of the output current with regulation below 3%.

As machine components, **ABL1REM/1RPM** Phaseo range power supplies must be easy to install; only setting-up may vary from one application to another. The ABL1 range has been specially designed for machine manufacturers.

ABL1REM/1RPM regulated switch mode power supplies are totally electronic and regulated. They provide the following benefits:

- A wide input voltage range from 85 to 264 V \sim and 120 to 370 V = (not indicated on the product).
- Products with anti-harmonic distortion input filter.
- A high degree of output voltage stability, adjustable by potentiometer.
- Built-in thermal overload protection.
- Conformity to world-wide standards.
- UL 508, CSA and TÜV certifications.
- Overload and short-circuit protection.
- Considerably reduced weight.
- Identical mounting accessories for each model.

ABL1 power supplies for electrical equipment are split into two ranges :

- ABL1REM, single-phase:
- □ 60 W for the 12 V == version,
- $\square\,$ 60 W, 100 W, 150 W and 240 W for the 24 V $\overline{\ldots}$ versions.
- ABL1RPM, single-phase with anti-harmonic distortion filter:
- □ 100 W for the 12 V ---- version,
- □ 100 W, 150 W and 240 W for the 24 V = versions.

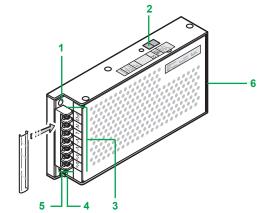
Behaviour in the event of short-circuits

ABL1 power supplies are equipped with electronic and thermal overload protection. This protection resets itself automatically on elimination of the fault, which avoids having to take any action or change a fuse.

Description

2

- ABL1REM/1RPM regulated switch mode power supplies comprise:
 - Two fixing holes for M4 x 20 screws.
 - A 115/230 V input voltage selector (on 150 W and 240 W versions only).
- 3 A4 mm² screw clamp terminal block for connection of the AC input voltage and DC output voltage.
- 4 A green LED indicating presence of the d.c. output voltage.
- 5 An output voltage adjustment potentiometer (± 10 %).
- 6 A removable, transparent, clip-on cover.



Selection of protection, references

Power supplies and transformers Phaseo Regulated switch mode power supplies

Conforming

to standard

Not applicable

Not applicable

Not applicable

No

No

IEC/EN 61000-3-2

Reference

ABL1REM12050

ABL1REM24025

ABL1REM24042

ABL1REM24062

ABL1REM24100

ABL1REM/1RPM 60 to 240 W - Mounting on panel

Type of mains supply	\sim 115 V single-p	\sim 230 V single-phase				
Type of protection (2 poles protected)	Thermal-magnetic circuit-breaker			Thermal-magnetic circuit-breaker		gG fuse
	GB2 (IEC/CSA-c/ US)	C60N (IEC) C60N (UL)		GB2 (IEC/CSA-c/ US)	C60N (IEC) C60N (UL)	
ABL1REM12050	GB2DB07	24517	2 A	GB2DB07	24517	2 A
ABL1REM24025	GB2DB07	24517	2 A	GB2DB07	24517	2 A
ABL1RPM12083	GB2DB07	24517	2 A	GB2DB07	24517	2 A
ABL1REM24042	GB2DB07	24517	2 A	GB2DB07	24517	2 A
ABL1RPM24042	GB2DB07	24517	2 A	GB2DB07	24517	2 A
ABL1REM24062	GB2DB07	24517	2 A	GB2DB08	24518	4 A
ABL1RPM24062	GB2DB07	24517	2 A	GB2DB08	24518	4 A
ABL1REM24100	GB2DB08	24518	4 A	GB2DB10 (1)	17454	6 A
ABL1RPM24100	GB2DB08	24518	4 A	GB2DB10 (1)	17454	6A

(1) Pending UL certification.

Nominal

current

5 A

2.5 A

4.2 A

6.2A

10 A

Regulated switch mode power supplies: ABL1REM Phaseo range

Output Nominal

voltage power

12 V 📰 60 W

24 V 60 W

24 V 150 W

100 W

240 W



References

Input voltage

100...240 V ∼ (1)

47...63 Hz

single-phase

100...120 V \sim

200...240 V \sim

(2) single-phase

(2) single-phase

wide range

ABL1REM24025



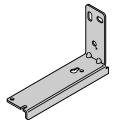
ABL1R•M24042



ABL1R.M24062



ABL1R•M24100



ABL1A01

Regulated switc	h mode p	ower supp	lies: ABL1F	RPM Phaseo ran	ge		
Input voltage 47…63 Hz	Output voltage	Nominal power	Nominal current	Auto-protect reset	Conforming to standard IEC/EN 61000-3-2	Reference	Weight kg/ <i>lb</i>
100240 V ∼ (1) single-phase	12 V 	100 W	8.3 A	Automatic	Yes	ABL1RPM12083	0.640/ 1.411
wide range	24 V 	100 W	4.2 A	Automatic	Yes	ABL1RPM24042	0.640/ 1.411
100120 V \sim 200240 V \sim	24 V 	150 W	6.2 A	Automatic	Yes	ABL1RPM24062	0.970/ 2.138

Auto-protect

reset

Automatic

Automatic

Automatic

Automatic

Automatic

(2) single-phase	240 W	10 A	Automatic	Yes	ABL1RPM24100	1.230/ 2.712
Mouting accessories						
Description	For powe	r supplies		Sold in lots of	Unit reference	Weight kg/lb
Reversible mounting bracket	For the mounting on the back of cabinet of 5 ABL1ReMeese power supply			5	ABL1A01	0.085/ <i>0.187</i>
Clip-on mounting plate for 고 35 mm mounting rail	on ∟req - ABL1RF ABL1R∙M mouting of - ABL1R∙ of cabinet plate	uires one mo PM12083 and I24042/24062 n ⊥r requires Meeee: the on the ⊥r rai	2/24100: the plate 2 mounting plates mounting on the back I requires one mounting	1	ABL1A02	0.035/ 0.077
	()	,	ltage			

Schneider Blectric

Weight

kg/lb

0.440/

0.970

0.440/

0.970

0.640/ 1.411

0.730/

1.609

0.880/ 1.940