ABL7RM24025

## Power supplies and transformers **Phaseo**

Regulated switch mode power supplies ABL8MEM/ABL7RM (Modular) 7 to 60 W - Rail mounting

Type of line supply	100 to 240 V $\sim$ single-ph	100 to 240 V ∼ single-phase				
Type of protection	Thermal-magnetic circuit	Thermal-magnetic circuit breaker				
	GB2 (IEC/CSA-c/US)	C60N (IEC) C60N (UL/CSA)				
ABL8MEM05040	GB2●●07 (1)	24581 24517	2 A			
ABL8MEM12020						
ABL8MEM24003						
ABL8MEM24006						
ABL8MEM24012						
ABL7RM24025	GB2••08 (1)	24582 24518	3 A			

(1) Complete the reference by replacing •• with:

CB: for single-pole circuit-breaker with magnetic trip threshold 12 to 16 In

CD: for single-pole + neutral circuit-breaker with magnetic trip threshold 12 to 16 In DB: for 2-pole circuit-breaker with magnetic trip threshold 12 to 16 In CS: for single-pole circuit-breaker with magnetic trip threshold 5 to 7 In

Input voltage	Secondary Reset		Reset	Conformity	Reference	Weight	
	Output voltage	Nominal power	Nominal current	_	to standard IEC/EN 61000-3-2 (1)		kg/ <i>lb</i>
Single-phase (N-	Single-phase (N-L1) or 2-phase (L1-L2) connection						
<b>100240 V</b> -15%, + 10% 50/60 Hz	5 V	20 W	4 A	Automatic	Not applicable	ABL8MEM05040	0.195/ 0.430
<del>-</del>	12 V	25 W	2 A	Automatic	Not applicable	ABL8MEM12020	0.195/ 0.430
//24012	24 V	7 W	0.3 A	Automatic	Not applicable	ABL8MEM24003	0.100/ 0.220
		15 W	0.6 A	Automatic	Not applicable	ABL8MEM24006	0.100/ 0.220
		30 W	1.2 A	Automatic	Not applicable	ABL8MEM24012	0.195/ 0.430
		60 W	2.5 A	Automatic	Not applicable	ABL7RM24025	0.255/ 0.562
<b>Description</b>	Use				Order in multiples of	Unit reference	Weight kg/lb
Clip-on marker tags	Replacem	ent parts for	ABL8MEM ¡	power supplies	100	LAD90	0.030/ 0.066

<sup>(1)</sup> Due to their power < 75 W, ABL8MEM/ABL7RM (Modular) power supplies are not subject to the requirements of standard IEC/EN 61000-3-2.

## Power supplies and transformers Phaseo

Regulated switch mode power supplies ABL8REM/ABL7RP (Optimum) 60 to 144 W - Rail mounting

## Switch mode power supplies: range ABL8REM/ABL7RP (Optimum)

The ABL8REM/ABL7RP (Optimum) power supply offer is designed to provide the DC voltage necessary for the control circuits of automation system equipment consuming 60 to 144 W in 12, 24 and 48 V .... Comprising four products, this range meets the needs encountered in industrial, commercial, and residential applications. With phase-to-neutral (N-L1) or phase-to-phase (1) (L1-L2) connection, these slim electronic switch mode power supplies provide a quality of output current that is suitable for the loads supplied and compatible with both Modicon logic controllers and small **Modicon M340**, **Premium** and **Quantum** configurations, making them ideal partners

Their simplified characteristics in comparison with the **ABL8RP/8WP** offer also make them the low-cost solution for applications less affected by constraints with the line supply, such as harmonic pollution and outages. Clear guidelines are given on selecting the upstream protection devices which are often used with them, and thus a comprehensive solution is provided that can be used in total safety.

The ABL8REM/ABL7RP (Optimum) power supplies delivers a voltage that is precise to 3%, whatever the load and whatever the type of line supply, within a range of 85 to 264 V  $\sim$ . Conforming to IEC standards and UL, CSA and TUV certified, they are suitable for universal use. The inclusion of overload and short-circuit protection makes downstream protection unnecessary if discrimination is not required.

■ ABL8REM power supplies do not have an anti-harmonic filter and do not satisfy the requirements of standard IEC/EN 61000-3-2 concerning harmonic pollution.
■ ABL7RP power supplies, however, are equipped with a PFC (Power Factor Correction) filter, thus ensuring compliance with standard IEC/EN 61000-3-2.

ABL8REM/ABL7RP (Optimum) power supplies have protection devices to give optimum performance of the automation system with an automatic reset mode. In the event of an overload or short-circuit, the integrated protection interrupts the current supply before the output voltage drops below 19 V ---. The protection device resets itself automatically (no action or change a fuse).

Each product is equipped with an output voltage adjustment potentiometer to compensate for any line voltage drops in installations with long cable runs. The power supplies are designed for direct mounting on 35 and 75 \(\to\$ rails.\)

There are four references available in the ABL8REM/ABL7RP (Optimum) Phaseo range:

•							
■ ABL8REM24030	72 W	3 A	24 V ===				
■ ABL8REM24050	120 W	5 A	24 V				
■ ABL7RP1205	60 W	5 A	12 V ===				
■ ABL7RP4803	144 W	3 A	48 V <del></del>				

## **Description**

- 1 2.5 mm² enclosed screw terminals for connection of the input voltage (single-phase N-L1, phase-to-phase L1-L2 (1))
- 2 Protective glass flap
- 3 Input voltage status LED (orange)
- 4 Output DC voltage status LED (green)
- 5 Locking catch for the glass flap (sealable)
- 6 Clip-on marker tag
- 7 Output voltage adjustment potentiometer
- 8 2.5 mm² enclosed screw terminal block for connection of the DC output voltage

(1) 240 V  $\sim$  nominal



ABL8REM24030

Modicon M221 logic controller

