

Fișă tehnică produs

Specificatii



Sursa Alim. In Comutatie - 1 Sau 2 Faze - 100 - 240 V C.A. - 24 V - 20 A

ABL8RPM24200

Principal

Gama de produse	Modicon Power Supply
Tip produs sau componenta	Sursa de alimentare
Tip sursa de energie	Mod comutare reglata
Nominal input voltage	100...120 V c.a. o singura faza, borne: N-L1 200...240 V c.a. faza la faza, borne: L1-L2
Putere nominala in W	480 W
Tensiune de iesire	24 V c.c.
Curent de iesire sursa de alimentare	20 A
Crestere temporara admisibila a curentului	1.5 x In (pentru 4 s)
Filtru anti-armonic	Low frequency harmonic currents

Suplimentar

Input voltage limits	85...132 V c.a. 170...264 V c.a.
Curent de varf	30 A
Pas de 18 mm	0.68 at 240 V AC 0.69 at 120 V AC
Eficienta	88 %
Output voltage adjustment	24...28,8 V reglabil
Puterea disipata in W	57,6 W
Echipament furnizat	Power factor correction filter conformitate cu IEC 61000-3-2
Tip de protectie a iesirii	Protecție la suprasarcină, tehnologie de protectie: resetare manuala sau automata Protecție la supratensiune, tehnologie de protectie: 30...32 V, reset manual Protecție la scurtcircuite, tehnologie de protectie: resetare manuala sau automata Protecție la scăderea tensiunii, tehnologie de protectie: declanșare dacă $U < 21.6$ V Termic, tehnologie de protectie: resetare automata
Conexiuni - borne	Cutie de borne cu suruburi amovibila 2 x 2.5 mm ² , pentru releu de diagnostic Borne tip cu surub 3 x 0.5...3 x 4 mm ² , (AWG 22...AWG 12) pentru intrare conectată Borne tip cu surub 1 x 0.5...1 x 4 mm ² , (AWG 22...AWG 12) pentru intrare conectată la pământ Borne tip cu surub 4 x 0.5...4 x 4 mm ² , (AWG 22...AWG 12) pentru conexiune ieșire
Stare LED	1 LED (verde și roșu) tensiune de iesire 1 LED (verde, roșu și portocaliu) curent de iesire
Adancime	145 mm
Inaltime	125 mm

Latime	146 mm
Greutate neta	1,6 kg
Cuplaj de iesire	Serii Paralel
Marcaj	CE
Suport de montare	sina DIN simetrica 35 x 7,5 mm sina DIN simetrica 35 x 15 mm
Pozitie de operare	Vertical
Alimentare	SELV conformitate cu EN/IEC 60950-1 SELV conformitate cu EN/IEC 60204-1 SELV conformitate cu IEC 60364-4-41
Rigiditate dielectrica	2500 V cu between input and ground izola#ie 3000 V cu between input and output izola#ie 500 V cu between output and ground izola#ie

Mediu

Standarde	CSA C22.2 No 60950-1 UL 60947-1 EN/IEC 62368-1
Certificari produs	CCSAus EAC KC RCM UL
Caracteristica de mediu	EMC conformitate cu EN 61000-6-1 EMC conformitate cu EN 61000-6-3 EMC conformitate cu EN 55024 EMC conformitate cu EN/IEC 61000-6-4 EMC conformitate cu EN/IEC 61204-3 Safety conformitate cu EN/IEC 60950-1 Safety conformitate cu EN/IEC 61204-3
Altitudinea de functionare	2000 m
Grad de protectie IP	IP20 conformitate cu EN/IEC 60529 IP10
Ambient air temperature for operation	50...60 °C cu mounting position A < 2000 m -25...50 °C fără declarare mounting position A < 2000 m

Unitati de ambalare

Tip unitate a formei de impachetare 1	PCE
Număr de produse în pachet	1
Greutate colet(Lbs)	2,82 kg
Inaltimea formei de impachetare 1	16,084 cm
Latimea formei de impachetare 1	17,706 cm
Lungimea formei de impachetare 1	17,786 cm
Tip unitate a formei de impachetare 2	S06
Numar de unitati in forma de impachetare 2	36
Greutatea formei de impachetare 2	101,52 kg
Inaltimea formei de impachetare 2	73,5 cm
Latimea formei de impachetare 2	60 cm

Lungimea formei de impachetare 2	80 cm
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Sustenabilitatea ofertei

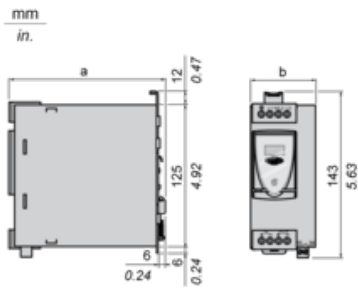
Stare ofertă sustenabilă	Produs Green Premium
Regulamentul REACH	Declaratia REACH
Directiva RoHS UE	Conformitate proactivă (Produs în afara domeniului de aplicare a EU RoHS) Declaratia RoHS UE
Fara mercur	Da
Informatii privind scutirea de la RoHS	Da
Regulamentul RoHS China	Declaratia RoHS China
Raport de mediu	Profilul ambiental al produsului
Profil circularitate	Informatii privind sfarsitul duratei de viata
Fara PVC	Da

Garanție contractuală

Garantie	18 months
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Regulated Switch Mode Power Supplies

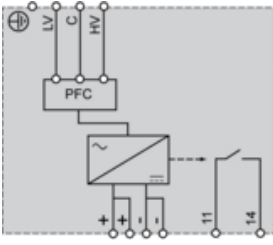
Dimensions



ABL 8	a in mm	a in in.	b in mm	b in in.
RPS24030	125	4.92	45	1.77
RPS24050	125	4.92	56	2.20
RPS24100	145	5.71	86	3.39
RPM24200	145	5.71	146	5.75
WPS24200	160	6.30	96	3.78
WPS24400	160	6.30	166	6.54

Regulated Switch Mode Power Supply

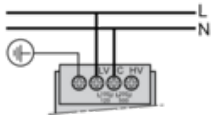
Internal Wiring Diagram



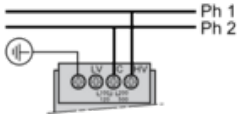
Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

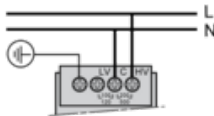
Single-phase (L-N) 100 to 120 V



Phase-to-phase (L1-L2) 200 to 500 V



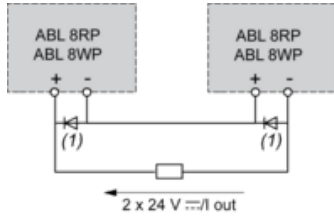
Single-phase (L-N) 200 to 500 V



Regulated Switch Mode Power Supplies

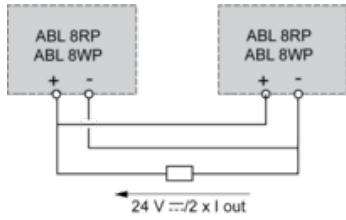
Series or Parallel Connection

Series Connection



(1) Two Schottky diodes I_{min} = power supply I_n and V_{min} = 50 V

Parallel Connection



Family	Series	Parallel
ABL 8RPS/8RPM/8WPS	2 products max. (1)	2 products max.

NOTE: Series or parallel connection is only recommended for products with identical references.

For better availability, the power supplies can also be connected in parallel using the **ABL8RED24400** Redundancy module.

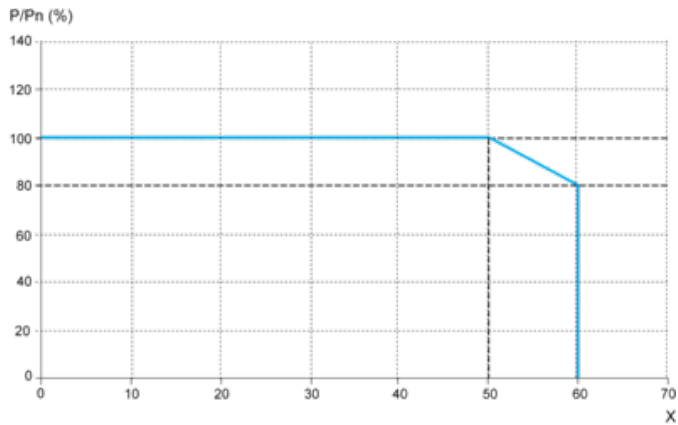
Regulated Switch Mode Power Supplies

Derating

The ambient temperature is a determining factor that limits the power an electronic power supply can deliver continuously. If the temperature around the electronic components is too high, their life will be significantly reduced.

The nominal ambient temperature for the Universal range of Phaseo power supplies is 50°C. Above this temperature, derating is necessary up to a maximum temperature of 60°C.

The graph below shows the power (in relation to the nominal power) that the power supply can deliver continuously, depending on the ambient temperature.



X Maximum operating temperature (°C)

ABL 8RPM, ABL 8RPS, ABL 8WPS mounted vertically

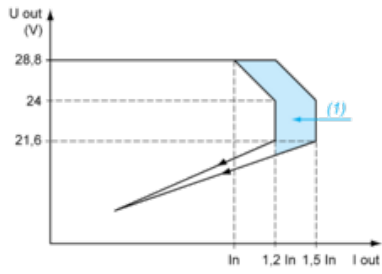
Derating should be considered in extreme operating conditions:

- Intensive operation (output current permanently close to the nominal current, combined with a high ambient temperature)
- Output voltage set above 24 Vdc (to compensate for line voltage drops, for example)
- Parallel connection to increase the total power

Regulated Switch Mode Power Supply

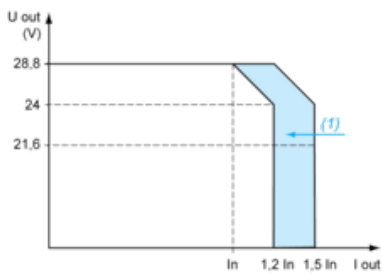
Load Limit

Manual Reset Protection Mode



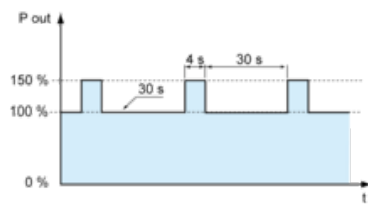
(1) Boost 4s

Automatic Reset Protection Mode



(1) Boost 4s

“Boost” Repeat Accuracy



This type of operation is described in detail in the user manual, which can be downloaded from the website.