

Fișă tehnică produs

Specificatii



Sursa Alim. In Comutatie - 1 Sau 2 Faze - 200 - 500 V C.A. - 24 V - 10 A

ABL8RPS24100

Principale

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...500 V c.a. faza la faza, borne: L1-L2
putere nominala in W	240 W
tensiune de iesire	24 V c.c.
curent de iesire sursa de alimentare	10 A
crestere temporara admisibila a curentului	1.5 x In (pentru 4 s)
filtru anti-armonic	Low frequency harmonic currents

Suplimentare

limite pentru tensiune la intrare	170...550 V c.a. 85...132 V c.a.
curent de varf	30 A
pas de 18 mm	0,68 at 240 V c.a. 0,69 at 120 V c.a.
eficienta	87 %
Output voltage adjustment	24...28,8 V reglabil
puterea disipata in W	31 W
echipament furnizat	Power factor correction filter conformitate cu IEC 61000-3-2
tip de protectie a iesirii	Protecție la suprasarcină, protection technology: resetare manuala sau automata Protecție la supratensiune, protection technology: 30...32 V, reset manual Protecție la scurtcircuite, protection technology: resetare manuala sau automata Protecție la scăderea tensiunii, protection technology: declanșare dacă U < 21.6 V Termic, protection technology: resetare automata
conexiuni - borne	Cutie de borne cu suruburi amovibila 2 x 2.5 mm², pentru releu de diagnostic Borne tip cu surub 3 x 0.5...3 x 4 mm², (AWG 22...AWG 12) pentru intrare conectată Borne tip cu surub 1 x 0.5...1 x 4 mm², (AWG 22...AWG 12) pentru intrare conectată la pământ Borne tip cu surub 4 x 0.5...4 x 4 mm², (AWG 22...AWG 12) pentru conexiune ieșire Borne tip cu surub 1 x 0.5...1 x 4 mm², (AWG 22...AWG 12) pentru conectare la pământ a ieșirii
stare LED	1 LED (verde si rosu) tensiune de iesire 1 LED (verde, roșu și portocaliu) curent de iesire
adancime	145 mm
inaltime	125 mm
latime	86 mm

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

greutate produs	1 kg
cuplaj de iesire	Paralel Serii
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 IEC 60950-1 SELV conformitate cu IEC 60204-1 SELV conformitate cu IEC 60364-4-41
rigiditate dielectrica	3500 V cu between input and ground izolație 4000 V cu between input and output izolație 500 V cu between output and ground izolație

Mediu

standarde	UL 60947-1 CSA C22.2 No 60950-1 EN/IEC 62368-1
certificari produs	CCSAus EAC KC RCM UL
caracteristica de mediu	EMC conforming to IEC 61000-6-1 EMC conforming to IEC 61000-6-3 EMC conforming to EN 55024 EMC conforming to IEC 61000-6-4 EMC conforming to EN/IEC 61204-3 Safety conforming to IEC 60950-1 Safety conforming to EN/IEC 61204-3
altitudinea de functionare	2000 m
grad de protectie IP	IP20 conforming to SR EN 60529
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

Unitate de masura pentru prima forma de impachetare	PCE
Numar unitati in prima forma de impachetare	1
Inaltime prima forma de impachetare	11,000 cm
Latime prima forma de impachetare	16,700 cm
Lungime prima forma de impachetare	18,200 cm
Greutate prima forma de impachetare	1,645 kg
Unitate de masura pentru a doua forma de impachetare	P06
Numar unitati in a doua forma de impachetare	60
Inaltime a doua forma de impachetare	75,000 cm
Latime a doua forma de impachetare	60,000 cm
Lungime a doua forma de impachetare	80,000 cm
Greutate a doua forma de impachetare	112,420 kg

Garanție contractuală

Garantie	18 months
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Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

Environmental Data explicate >

Cum evaluam sustenabilitatea produselor >

Amprenta de mediu	
Amprenta de carbon (kg CO2 eq.)	566
Raport de mediu	Profilul ambiental al produsului

Use Better

Materiale si ambalare	
Pachet cu carton reciclabil	Nu
Ambalaj fara plastic	Nu
Directiva RoHS UE	Conformitate proactiva (Produs in afara domeniului de aplicare a EU RoHS)
Numar SCIP	974297e5-68e4-4a61-9a40-1443e8973a62
Regulamentul REACH	Declaratia REACH
Nu contine PVC	Da

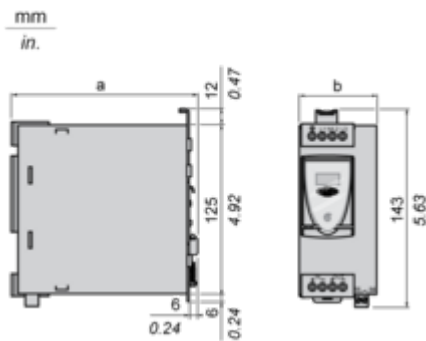
Use Again

Reambalare si refabricare	
Profil circularitate	Informatii privind sfarsitul duratei de viata
Preluare la sfarsitul duratei de viata	No
DEEE	 Produsul trebuie sa fie eliminat de pe piata din Uniunea Europeana dupa colectarea specifica a deseurilor si sa nu ajunga niciodata in pubele de gunoi

Dimensions Drawings

Regulated Switch Mode Power Supplies

Dimensions

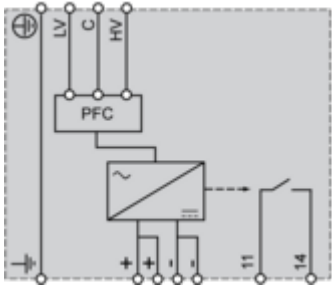


ABL 8	a in mm	a in in.	b in mm	b in in.
RPS24030	125	4.92	45	1.77
RPS24050	125	4.92	56	2.20
RPS24100	145	5.71	86	3.39
RPM24200	145	5.71	146	5.75
WPS24200	160	6.30	96	3.78
WPS24400	160	6.30	166	6.54

Connections and Schema

Regulated Switch Mode Power Supply

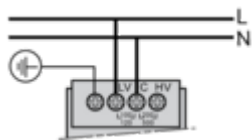
Internal Wiring Diagram



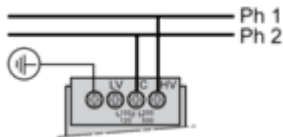
Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

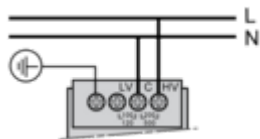
Single-phase (L-N) 100 to 120 V



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



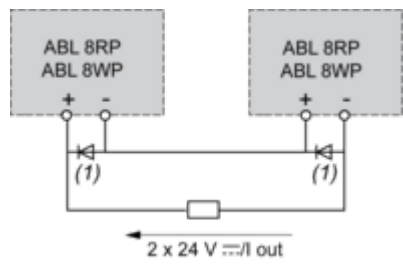
Single-phase (L-N) 200 to 500 V



Regulated Switch Mode Power Supplies

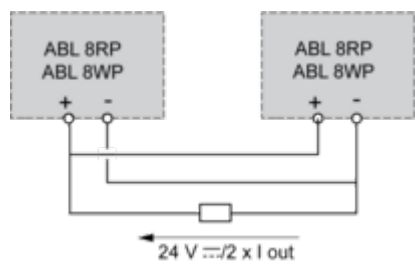
Series or Parallel Connection

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.

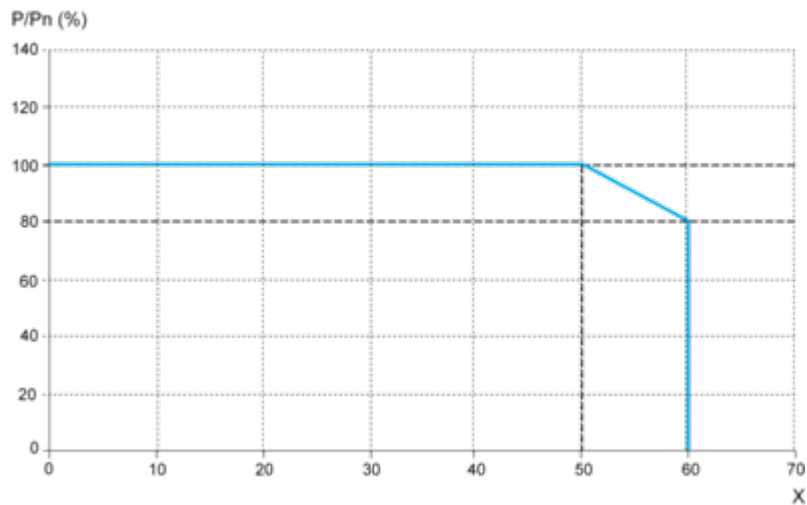
For better availability, the power supplies can also be connected in parallel using the **ABL8RED24400** Redundancy module.

Performance Curves

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.



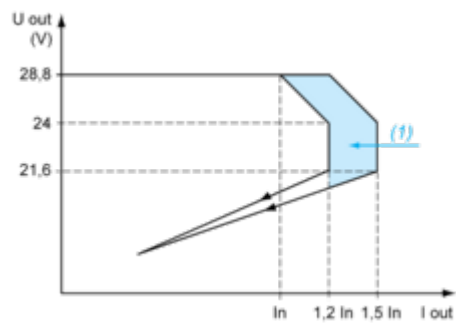
X Maximum operating temperature (°C)
ABL 8RPM, ABL 8RPS, ABL 8WPS mounted vertically
Derating should be considered in extreme operating conditions:

- 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

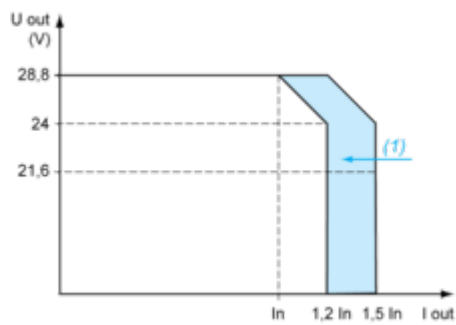
Load Limit

Manual Reset Protection Mode



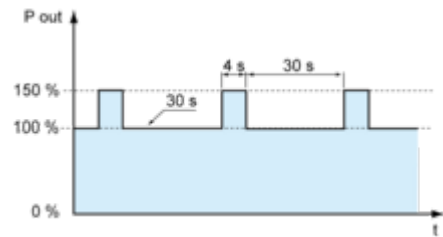
(1) Boost 4s

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.

Image of product / Alternate images

Alternative

