



Osnovne informacije

Grupa proizvoda	Modicon Power Supply
Tip proizvoda ili komponente	Napajanje
Tip napajanja	Regulisano
Nominalni ulazni napon	380...500 V AC trofazno, priključak(čci): L1, L2, L3
Nazivna snaga u w	480 W
Napon izlaza	24 V DC
Napajanje strujnog izlaza	20 A
Dopustiva privremena struja	1.5 x In (tokom 4 s)
Filter za harmonike	Struja harmonika niske frekvencije

Dopunske informacije

Input voltage limits	320...550 V AC
Udarina struja	25 A
Broj 18 mm modula	0.65 at 24 V DC
Efikasnost	92 %
Podešavanje izlaznog napona	24...28.8 V podesivo
Snaga disipacije u w	38,4 W
Obezbeđena oprema	Filter za korekciju faktora snage u skladu sa IEC 61000-3-2
Tip zaštite izlaza	Protiv preopterećenja, zaštitna tehnologija: ručni ili automatski reset Protiv prenapona, zaštitna tehnologija: 30...32 V, ručni reset Protiv kratkog spoja, zaštitna tehnologija: ručni ili automatski reset Protiv podnapona, zaštitna tehnologija: okidanje ako je $U < 21.6 V$ Termička, zaštitna tehnologija: automatski reset
Povezivanje - priključci	Odvojivi vijčani priključni blok: 2 x 2.5 mm ² , za dijagnostiku releja Vijčani priključni blokovi: 3 x 0.5...3 x 4 mm ² , (AWG 22...AWG 12) za povezivanje ulaza Vijčani priključni blokovi: 1 x 0.5...1 x 4 mm ² , (AWG 22...AWG 12) za uzemljenje ulaza Vijčani priključni blokovi: 4 x 0.5...4 x 10 mm ² , (AWG 22...AWG 8) za povezivanje izlaza
Statusne led lampice	1 LED (zelena i crvena) izlazni napon 1 LED (zelena, crvena i narandžasta) izlazna struja
Dubina	160 mm
Visina	143 mm
Širina	96 mm
Masa proizvoda	1,6 kg
Spajanje izlaza	Serijski Paralelno
Označavanje	CE
Držač za montažu	35 x 7.5 mm simetrična DIN šina 35 x 15 mm simetrična DIN šina
Radni položaj	Vertikalno
Napajanje	SELV u skladu sa EN/IEC 60950-1 SELV u skladu sa EN/IEC 60204-1 SELV u skladu sa IEC 60364-4-41
Dielektrična snaga	3500 V sa između ulaza i uzemljenja izolacijom 4000 V sa between input and output izolacijom 500 V sa između izlaza i uzemljenja izolacijom

Okruženje

Standardi	CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1
Sertifikacije proizvoda	CCSAus EAC UL RCM
Karakteristike okruženja	EMC u skladu sa EN 61000-6-1 EMC u skladu sa EN 61000-6-3 EMC u skladu sa EN 55024 EMC u skladu sa EN/IEC 61000-6-4 EMC u skladu sa EN/IEC 61204-3 Bezbednost u skladu sa EN 61204-4 Bezbednost u skladu sa EN/IEC 60950-1
Nadmorska visina za rad uređaja	2000 m
Ip stepen zaštite	IP20 u skladu sa EN/IEC 60529
Ambient air temperature for operation	50...60 °C sa faktorom smanjenja karakteristika mounting position A < 2000 m -25...50 °C bez smanjenja karakteristika mounting position A < 2000 m

Pakovanje

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12,882 cm
Package 1 Width	15,928 cm
Package 1 Length	18,442 cm
Package 1 Weight	2,151 kg
Unit Type of Package 2	S06
Number of Units in Package 2	45
Package 2 Height	73,5 cm
Package 2 Width	60,0 cm
Package 2 Length	80,0 cm
Package 2 Weight	110,0 kg

Održivost ponude

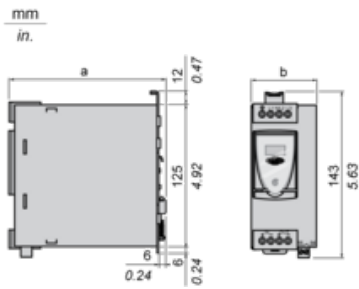
Status održive ponude	Green Premium proizvod
Propis REACH	REACH Deklaracija
EU RoHS direktiva	Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS) EU RoHS deklaracija
Bez žive	Da
Informacije o RoHS izuzecima	Da
RoHS regulativa za Kinu	RoHS Deklaracija Za Kinu
Izjava o zaštiti okoliša	Profil Ekološke Prihvatljivosti Proizvoda
Profil cirkularnosti	Informacije O Kraju Radnog Veka
Bez PVC	Da

Ugovorna garancija

Garancija	18 months
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Regulated Switch Mode Power Supplies

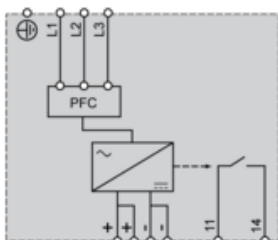
Dimensions



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

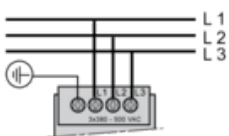
Internal Wiring Diagram



Regulated Switch Mode Power Supply

Line Supply Wiring Diagram

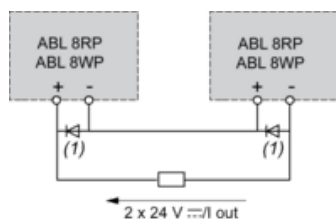
Three-phase (L1-L2-L3) 3 x 380 to 500 V



Regulated Switch Mode Power Supplies

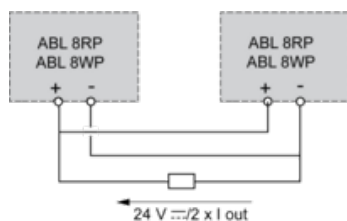
Series or Parallel Connection

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.

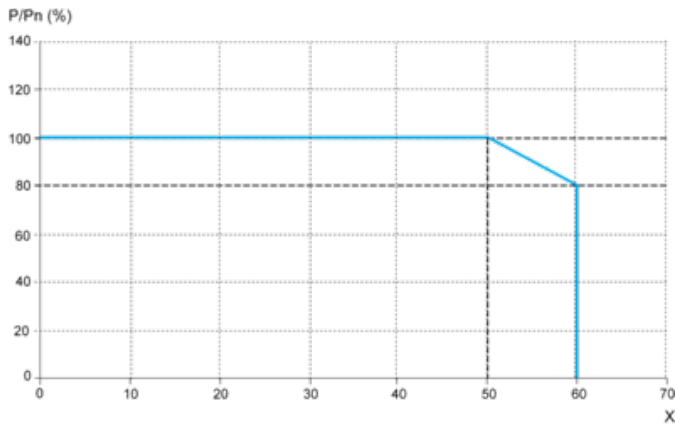
Regulated Switch Mode Power Supplies

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

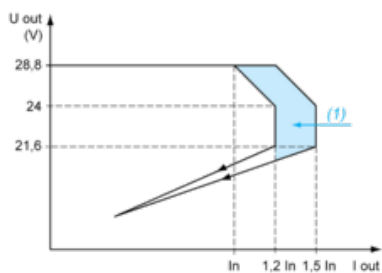
Derating should be considered in extreme operating conditions:

- 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

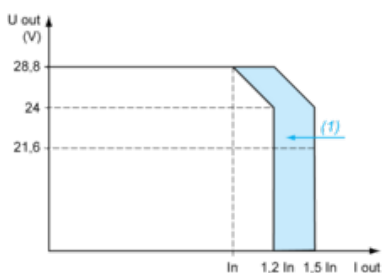
Load Limit

Manual Reset Protection Mode



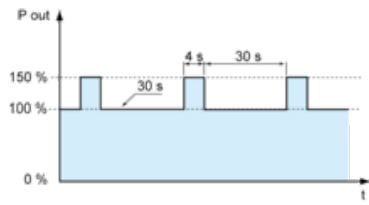
(1) Boost 4s

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.