

# Produktdatablad

Spesifikasjoner



## Strømforsyning 24VDC 20A 3f

EI-nummer:

6601440

ABL8WPS24200

EAN: 3389119405645

## Produktdata

|                                |  |
|--------------------------------|--|
| Produktspekter                 | Modicon Power Supply                         |
| Produkt eller type komponent   | Strømforsyning                               |
| Type strømforsyning            | Regulert switch mode                         |
| Nominal input voltage          | 380 - 500 V AC tre-fase, fane(r): L1, L2, L3 |
| Nominell effekt i W            | 480 W  |
| Utgangsspenning                | 24 V DC                                      |
| strømforsyningens utgangsstrøm | 20 A   |
| tillatt korttidstrøm           | 1.5 x In ( i 4 s)                            |
| antiharmonisk filter           | Lavfrekvente overharmoniske                  |

## Teknisk data

|                              |  |
|------------------------------|--|
| toleranse forsyningsspenning | 320...550 V AC   |
| startstrøm                   | 25 A   |
| 18 mm avstand                | 0,65 at 24 V DC  |
| effektivitet                 | 92 %   |
| Output voltage adjustment    | 24...28.8 V justerbar  |
| Effekttap i W                | 38,4 W   |
| inkludert utstyr             | Effektfaktor filter i samsvar med IEC 61000-3-2  |
| verntype utgang              | Mot overlast, protection technology: manuell eller automatisk reset<br>Mot overspenning, protection technology: 30...32 V, manuell reset<br>Mot kortslutning, protection technology: manuell eller automatisk reset<br>Mot underspenning, protection technology: utkobling hvis U < 21.6 V<br>Termisk, protection technology: automatisk reset   |
| tilkoblingsklemmer           | Demonterbar blokk med skruklemmer: 2 x 2,5 mm <sup>2</sup> , for diagnostisk relé<br>Klemme med skruer: 3 x 0.5...3 x 4 mm <sup>2</sup> , ( AWG 22...AWG 12) for tilkobling inngang<br>Klemme med skruer: 1 x 0.5...1 x 4 mm <sup>2</sup> , ( AWG 22...AWG 12) for jordtilkobling inngang<br>Klemme med skruer: 4 x 0.5...4 x 10 mm <sup>2</sup> , ( AWG 22...AWG 8) for tilkobling utgang |
| status LED                   | 1 LED (grønn og rød) utgangsspenning<br>1 LED (Grønn, rød og orange) utgangsstrøm  |
| Dybde                        | 160 mm   |
| Høyde                        | 143 mm   |
| Bredde                       | 96 mm  |
| Vekt                         | 1,6 kg   |
| Utgangs sammenkobling        | Serie<br>Parallell   |

|                    |  |
|--------------------|--|
| Merking            | CE   |
| Monteringsupport   | 35 x 7.5 mm symmetriskDIN skinne<br>35 x 15 mm symmetrisk DIN skinne   |
| Driftsposisjon     | Vertikal   |
| Forsyning          | SELV i samsvar med IEC 60950-1<br>SELV i samsvar med IEC 60204-1<br>SELV i samsvar med IEC 60364-4-41  |
| dielektrisk styrke | 3500 V med between input and ground issolasjon<br>4000 V med between input and output issolasjon<br>500 V med between output and ground issolasjon |

## Miljø

|                                       |  |
|---------------------------------------|--|
| Standarder                            | CSA C22.2 No 60950-1<br>UL 508<br>EN/IEC 62368-1   |
| produktsertifikater                   | CCSAus<br>EAC<br>UL<br>RCM   |
| Miljødata                             | EMC conforming to IEC 61000-6-1<br>EMC conforming to IEC 61000-6-3<br>EMC conforming to EN 55024<br>EMC conforming to IEC 61000-6-4<br>EMC conforming to EN/IEC 61204-3<br>Sikkerhet conforming to EN 61204-4<br>Sikkerhet conforming to IEC 60950-1 |
| Driftshøyde                           | 2000 m   |
| IP-grad                               | IP20 i samsvar med IEC 60529   |
| ambient air temperature for operation | 50...60 °C med belastningsfaktor mounting position A < 2000 m<br>-25...50 °C uten lastreduksjon mounting position A < 2000 m   |

## Forpakkingsinformasjon

|                          |            |
|--------------------------|------------|
| Enhetsstype pakke 1      | PCE        |
| Antall enheter i pakke 1 | 1          |
| Pakke 1 Høyde            | 13,000 cm  |
| Pakke 1 Bredde           | 16,000 cm  |
| Pakke 1 Vekt             | 18,800 cm  |
| Package 1 Weight         | 2,145 kg   |
| Enhetsstype pakke 2      | P06        |
| Antall enheter i pakke 2 | 45         |
| Pakke 2 Høyde            | 75,000 cm  |
| Pakke 2 Bredde           | 60,000 cm  |
| Pakke 2 Lengde           | 80,000 cm  |
| Pakke 2 Vekt             | 110,200 kg |

## Logistikkinformasjon

|                  |    |
|------------------|----|
| Opprinnelsesland | PH |
|------------------|----|

## Garantiperiode

|         |           |
|---------|-----------|
| Garanti | 18 months |
|---------|-----------|

## Environmental Data

Schneider Electric tar sikte på å oppnå Net Zero-status innen 2050 gjennom partnerskap med leverandørkjeden, materialer med lavere slagkraft og sirkularitet via vår pågående "Use Better, Use Longer, Use Again"-kampanje for å forlenge produktlevetiden og resirkulerbarheten.

[Environmental Data forklart >](#)

[Hvordan vi vurderer produktets bærekraft >](#)

### Miljøfotavtrykk

PEP (Product Environmental Profile)

[Produktmiljøprofil](#)

### Use Better

#### Materialer og emballasje

Emballasje med resirkulert papp

Nei

Emballasje uten plast

Nei

[EU RoHS-direktiv](#)

Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)

SCIP-nummer

C433dc09-2f7b-4231-a331-94ae03569bc6

REACH-regelverk

[REACH-erklæring](#)

PVC-fri

Ja

### Use Again

#### Ompakking og reproduksjon

Produktets livssyklus

[Informasjon om levetidsslutt](#)

Tilbaketakning

No

WEEE Label



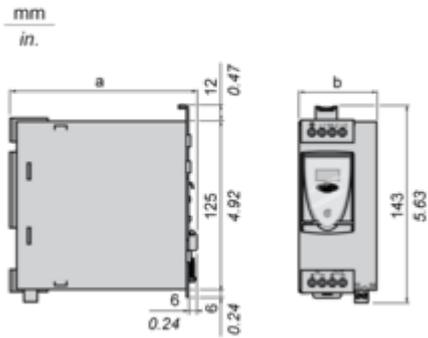
Innen EU må produktet avhendes i henhold til bestemte regler for avfallshåndtering og aldri kastes som husholdningsavfall.

Dimensions Drawings

Regulated Switch Mode Power Supplies

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Dimensions



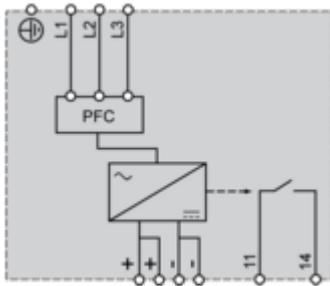
| ABL 8    | a in mm | a in in. | b in mm | b in in. |
|----------|---------|----------|---------|----------|
| RPS24030 | 125     | 4.92     | 45      | 1.77     |
| RPS24050 | 125     | 4.92     | 56      | 2.20     |
| RPS24100 | 145     | 5.71     | 86      | 3.39     |
| RPM24200 | 145     | 5.71     | 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

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#### Internal Wiring Diagram

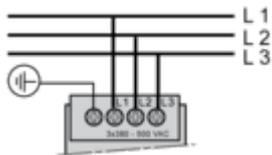


**Regulated Switch Mode Power Supply**

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**Line Supply Wiring Diagram**

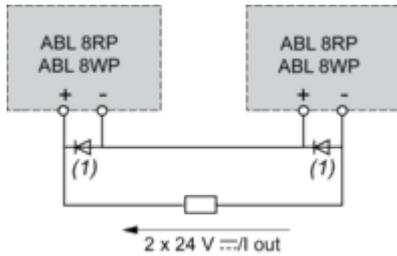
Three-phase (L1-L2-L3) 3 x 380 to 500 V



Regulated Switch Mode Power Supplies

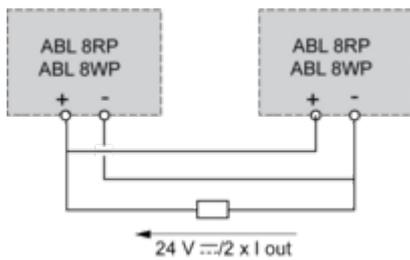
Series or Parallel Connection

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.

Performance Curves

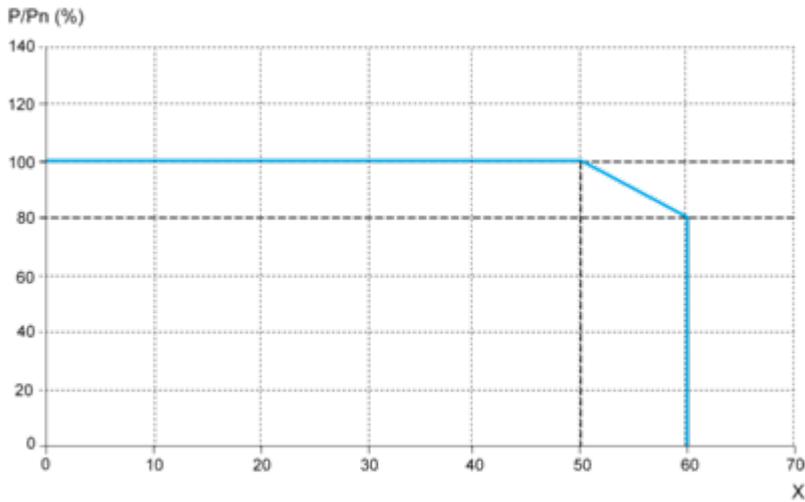
**Regulated Switch Mode Power Supplies**

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**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:

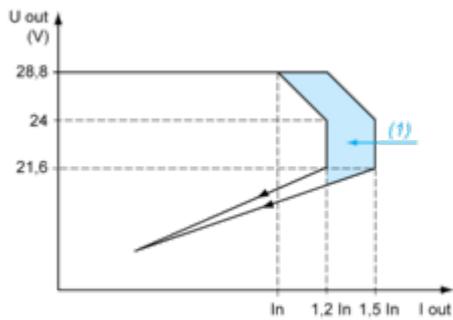
- Intensive operation (output current permanently close to the nominal current, combined with a high ambient temperature)
- Output voltage set above 24 Vdc (to compensate for line voltage drops, for example)
- Parallel connection to increase the total power

Regulated Switch Mode Power Supply

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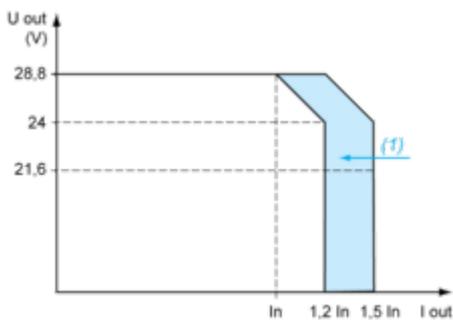
Load Limit

Manual Reset Protection Mode



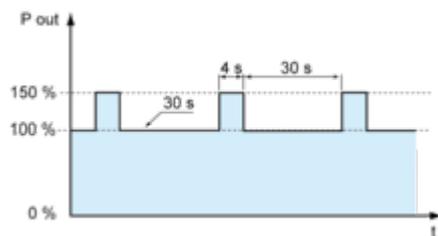
(1) Boost 4s

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

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