



### Main

|                           |  |
|---------------------------|--|
| Range of Product          | Phase0   |
| Product or Component Type | Buffer module  |
| Input voltage             | 24...28.8 V DC   |
| Output voltage            | (U <sub>in</sub> -0.25) V nominal mode DC<br>(U <sub>in</sub> -1) V buffer mode DC |
| Maximum output current    | 40 A   |
| Holding time              | 0.1 s 40 A<br>6 s 0.5 A  |

### Complementary

|                                |   |
|--------------------------------|---|
| Input voltage limits           | 22...30 V   |
| Maximum power dissipation in W | 15 W  |
| Activation threshold           | (U <sub>in</sub> -1) V and 22 V min   |
| Charging time                  | 25 s  |
| Number of output channels      | 1   |
| Current consumption            | 0.6 A on load<br>0.1 mA no load<br><= 40.6 A  |
| Output protection type         | Against overload > 45 A<br>Against short-circuits power-supplied mode, automatic reset<br>Against undervoltage tripping if U < 19 V   |
| Connections - terminals        | Input connection screw type terminals 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8<br>Output connection screw type terminals 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8<br>Diagnostic relay removable screw terminal block 1 x 2.5 mm <sup>2</sup> AWG 14   |
| Fixing mode                    | By clips 35 mm symmetrical DIN rail horizontal<br>By clips 35 mm symmetrical DIN rail vertical  |
| Output coupling                | Parallel  |
| Operating altitude             | 6561.68 ft (2000 m)   |
| Marking                        | CE  |
| Name of test                   | Electrostatic discharges EN/IEC 61000-4-2<br>Emission EN 61000-6-3<br>Induced electromagnetic field EN/IEC 61000-4-6 level 3<br>Radiated electromagnetic field EN/IEC 61000-4-3 level 3<br>Rapid transient IEC 61000-4-4 level 3<br>Surge EN/IEC 61000-4-5 level 2<br>Conducted/radiated emissions EN 55022 Class B, 20 % |
| Local signalling               | For buffer ready 1 LED (green)<br>For buffer ready 1 relay  |
| Net Weight                     | 2.65 lb(US) (1.2 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product Certifications                | RCM<br>EAC   |
| Standards                             | UL 508<br>CSA C22.2 No 60950-1   |
| Ambient air temperature for operation | -13...140 °F (-25...60 °C)   |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)   |
| Environmental characteristic          | EMC EN 61000-6-3<br>EMC EN/IEC 61000-6-2<br>Safety EN/IEC 60950-1<br>Safety EN/IEC 61204-3 |
| IP degree of protection               | IP20 conforming to EN/IEC 60529  |
| Dielectric strength                   | 500 V between input and ground<br>500 V between output and ground                          |
| Overvoltage category                  | Class II VDE 0106-1  |
| Relative Humidity                     | 0...90 % during operation<br>0...95 % during storage                                       |
| MTBF reliability                      | 24 V with UTE C80-810  |
| Vibration resistance                  | 2 gn 11.9...150 Hz)EN/IEC 61131-2<br>3.5 mm 3...11.9 Hz)EN/IEC 61131-2                     |

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22525 - ABL8 AND ABL7 POWER SUPPLIE |
| Discount Schedule     | CP12                                |
| GTIN                  | 3389119406819                       |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 3.09 lb(US) (1.401 kg)              |
| Returnability         | No                                  |
| Country of origin     | PH                                  |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 4.53 in (11.5 cm)        |
| Package 1 width              | 6.69 in (17 cm)          |
| Package 1 Length             | 7.17 in (18.2 cm)        |
| Unit Type of Package 2       | P06                      |
| Number of Units in Package 2 | 60                       |
| Package 2 Weight             | 213.98 lb(US) (97.06 kg) |
| Package 2 Height             | 31.50 in (80 cm)         |
| Package 2 width              | 31.50 in (80 cm)         |
| Package 2 Length             | 23.62 in (60 cm)         |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information |  <a href="#">Yes</a>   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| PVC free                   | Yes   |

## Contractual warranty

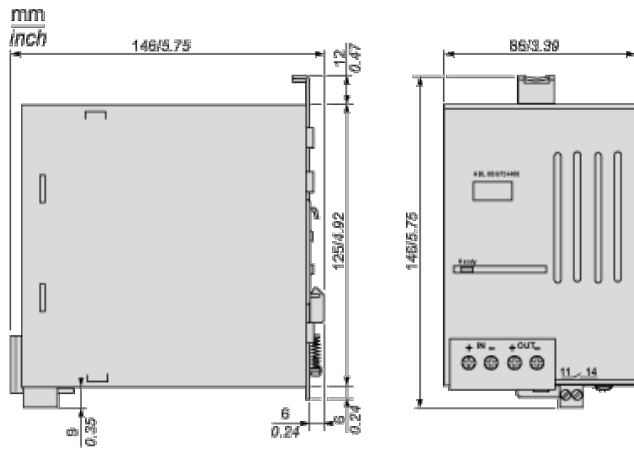
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|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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## 24...28.8 Vdc/40 A Power Supply Buffer Module

### Dimensions

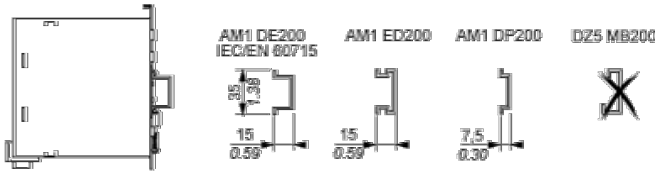


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24...28.8 Vdc/40 A Power Supply Buffer Module




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Mounting



## Wiring Requirements

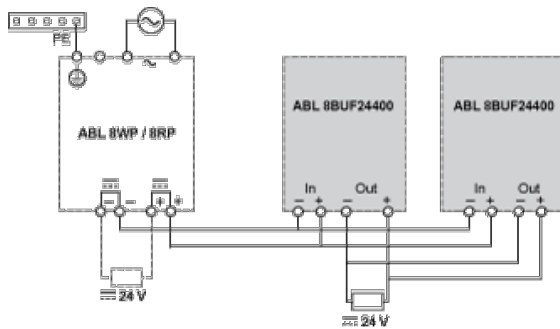
### Cable Types and Wire Sizes

|   |   |   |                 |           |                        |                              |
|---|---|---|-----------------|-----------|------------------------|------------------------------|
| mm<br>/in   |  |  | ABL             | 8RPS24030 | 8RPS24050<br>8RPS24100 | 8RPM24200<br>8WPS24200/24400 |
| $\varnothing \leq 4 \text{ mm}^2$<br>$\varnothing \leq 12 \text{ AWG}$            |   | $\varnothing > 4 \text{ mm}^2$<br>$\varnothing > 12 \text{ AWG}$                  |                 |           |                        |                              |
| + In -  | mm <sup>2</sup> /AWG  |   | 1...4 / 16...12 |           |                        |                              |
| + Out -   | mm <sup>2</sup> /AWG  |   | 1...4 / 16...12 |           | 4...10 / 12...6        |                              |
|  | mm/in   |   | 4 / 0.16        |           |                        |                              |
| 11...14   | mm <sup>2</sup> /AWG  |   | -               |           | 0,2...2,5 / 24...14    |                              |

## Paralleling Power Supply Buffer Modules

### Wiring Diagram

Two outputs of buffer modules at maximum can be connected in parallel.



Supply by R/C (NMTR2, NMTR8), (E164867), Model ABL8 series.