



### Main

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Range of product          | Phaseo                                                                                   |
| Product or component type | Buffer module                                                                            |
| Input voltage             | 24...28.8 V DC                                                                           |
| Output voltage            | (U <sub>in</sub> -0.25) V in nominal mode DC<br>(U <sub>in</sub> -1) V in buffer mode DC |
| Maximum output current    | 40 A                                                                                     |
| Holding time              | 0.1 s at 40 A<br>6 s at 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, protection technology: > 45 A<br>Against short-circuits, protection technology: power-supplied mode, automatic reset<br>Against undervoltage, protection technology: tripping if U < 19 V                                                                                                                                                                                                                 |
| Connections - terminals        | For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8<br>For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8<br>For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm <sup>2</sup> AWG 14                                                                          |
| Fixing mode                    | By clips on 35 mm symmetrical DIN rail, operating position: horizontal<br>By clips on 35 mm symmetrical DIN rail, operating position: vertical                                                                                                                                                                                                                                                                              |
| Output coupling                | Parallel                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating altitude             | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Marking                        | CE                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Name of test                   | Electrostatic discharges conforming to EN/IEC 61000-4-2<br>Emission conforming to EN 61000-6-3<br>Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3<br>Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3<br>Rapid transient conforming to IEC 61000-4-4 level 3<br>Surge conforming to EN/IEC 61000-4-5 level 2<br>Conducted/radiated emissions conforming to EN 55022 class B, 20 % |
| Local signalling               | 1 LED (green) for buffer ready<br>1 relay for buffer ready                                                                                                                                                                                                                                                                                                                                                                  |
| Net weight                     | 1.2 kg                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Environment

|                                       |                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                | RCM<br>EAC                                                                                                                                         |
| Standards                             | UL 508<br>CSA C22.2 No 60950-1                                                                                                                     |
| Ambient air temperature for operation | -25...60 °C                                                                                                                                        |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                        |
| Environmental characteristic          | EMC conforming to EN 61000-6-3<br>EMC conforming to EN/IEC 61000-6-2<br>Safety conforming to EN/IEC 60950-1<br>Safety conforming to 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 conforming to VDE 0106-1                                                                                                                  |
| Relative humidity                     | 0...90 % during operation<br>0...95 % during storage                                                                                               |
| MTBF reliability                      | 1119603 H at 24 V DC with UTE C80-810 calculation method                                                                                           |
| Vibration resistance                  | 2 gn (f= 11.9...150 Hz) conforming to EN/IEC 61131-2<br>3.5 mm (f= 3...11.9 Hz) conforming to EN/IEC 61131-2                                       |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 1.401 kg |
| Package 1 Height | 1.150 dm |
| Package 1 width  | 1.700 dm |
| Package 1 Length | 1.820 dm |

## Offer Sustainability

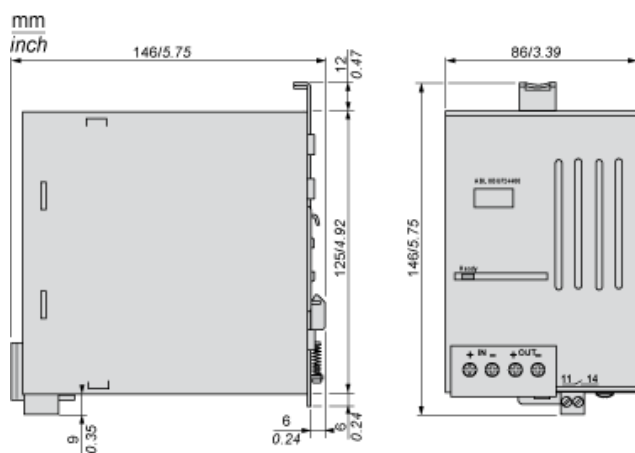
|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH 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

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

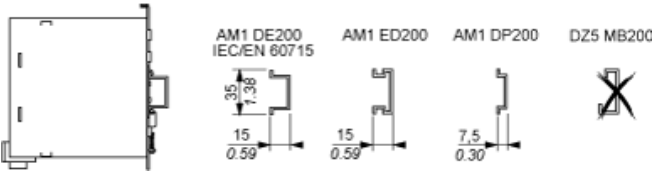
## 24...28.8 Vdc/40 A Power Supply Buffer Module

### Dimensions



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

Mounting



## Wiring Requirements

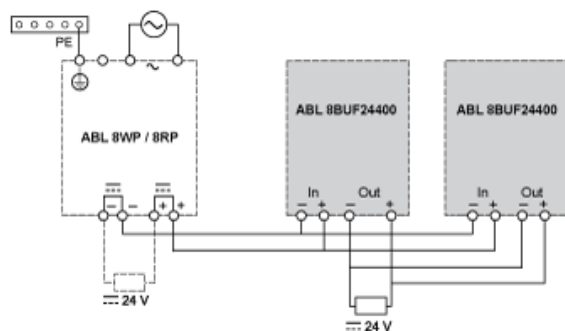
### Cable Types and Wire Sizes

|                                                                                   |                                                                                   |                                                                                   |     |                 |                        |                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|-----------------|------------------------|------------------------------|
| mm<br>in                                                                          |  |  | ABL | 8RPS24030       | 8RPS24050<br>8RPS24100 | 8RPM24200<br>8WPS24200/24400 |
| Ø ≤ 4 mm²<br>Ø ≤ 12 AWG                                                           |                                                                                   | Ø > 4 mm²<br>Ø > 12 AWG                                                           |     |                 |                        |                              |
| + In –                                                                            | mm²/AWG                                                                           |                                                                                   |     | 1...4 / 16...12 |                        |                              |
| + Out –                                                                           | mm²/AWG                                                                           |                                                                                   |     | 1...4 / 16...12 | 4...10 / 12...6        |                              |
|  | mm/in                                                                             |                                                                                   |     | 4 / 0.16        |                        |                              |
| 11...14                                                                           | mm²/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.