

## Single- and two-phase, primary switched mode power supply **PC-0224-100-2**



Picture shows PC-0224-050-0

### Advantages

|                                                |
|------------------------------------------------|
| Stabilized and adjustable output voltage       |
| Fast tripping of conventional circuit breakers |
| DC OK indicator                                |
| Parallel operation                             |
| Push-in terminals                              |
| Robust DIN rail mounting                       |
| Resistant to transient overvoltages up to 4 kV |
| Optional with 50 % Power Boost (PC-0224-xxx-2) |
| 3 years warranty                               |

### Applications

The economic power supplies in the Power Compact series set new standards in their class. Above-average robustness against transients and energetic surge pulses at their input and equipped with essential additional aspects for a worldwide high plant availability. A powerful and flexible option that's still light and compact. Due to a single or two-phase supply from 180 V to 550 V, these power supplies are suitable for a highly diverse range of applications in solar, measurement and control technology and they really come into their own in industrial and building automation. The output voltage can be set easily using the rotary potentiometer on the front of the housing. The robust DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

### Standards

Primary switched mode power supply  
to UL 60950, UL 508

Safety:  
EN 61558-2-16, EN 60950-1

EMC:  
EN 61204-3

### Approvals



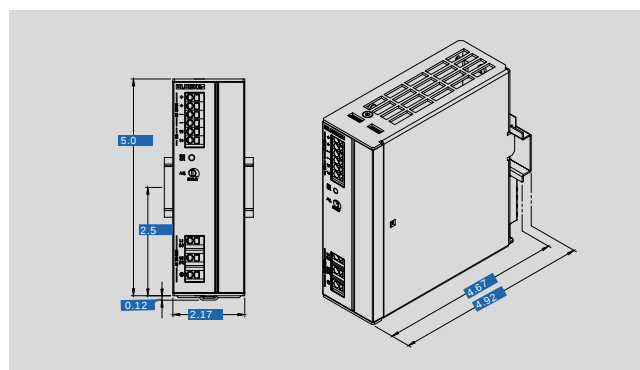
UL/CSA 60950, UL 508, GL (in preparation)



# Single- and two-phase, primary switched mode power supply PC-0224-100-2

| Type            |                                            | PC-0224-100-2                                         |
|-----------------|--------------------------------------------|-------------------------------------------------------|
| Electrical data | Special features                           |                                                       |
|                 | Characteristics                            | Power Boost                                           |
|                 | Input                                      |                                                       |
|                 | Input rated voltage                        | 200 - 500 Vac                                         |
|                 | Input voltage range                        | 180 - 550 Vac<br>(254 - 780 Vdc)                      |
|                 | Input voltage derating                     | 0.5 %/Vac < 200 Vac                                   |
|                 | Rated frequency range                      | 44 - 66 Hz                                            |
|                 | Input rated current (rated load)           | 1.97 A (230 Vac)                                      |
|                 | Starting current limiter                   | < 30 A, NTC                                           |
|                 | Switch-on time                             | 0.5 s (1 x 230 Vac / 3 x 400 Vac)                     |
|                 | Mains buffering (rated load)               | 20 ms (230 Vac) / 78 ms (400 Vac)                     |
|                 | Power factor                               | 0.52                                                  |
|                 | Input fuse internal                        | 6,3 AT                                                |
|                 | Recommended back-up fuse (circuit breaker) | 6 A, 10 A, 16 A,<br>characteristic B, C               |
|                 | Transient surge voltage protection         | Varistor                                              |
|                 | Output                                     |                                                       |
|                 | Output rated voltage                       | 24 Vdc                                                |
|                 | Output voltage range                       | 23 - 28,5 Vdc                                         |
|                 | Output rated current                       | 10 A                                                  |
|                 | Power Boost                                | 15 A / 5 s @ 24 Vdc > 260 Vac                         |
|                 | Output limited current                     | typ. 11 A                                             |
|                 | Tripping of LS circuit breakers            | max. B6 / C2                                          |
|                 | Parallel connection                        | Yes                                                   |
|                 | Serial operation                           | Yes                                                   |
|                 | Power dissipation, no load/rated load      | 1,33 W / 27,77 W (230 Vac)<br>2 W / 20,27 W (400 Vac) |
|                 | Max. power losses                          | 27,77 W (230 Vac / 24 V / 10 A)                       |
|                 | Efficiency                                 | typ. 90% (230V) / 92,5% (400V)                        |
|                 | Ripple factor                              | typ. 22 mVss                                          |
|                 | Resistance to reverse feed max.            | 35 Vdc                                                |
|                 | Over-voltage-protection                    | typ. 40 Vdc                                           |
|                 | Signaling                                  |                                                       |
|                 | Status indicator                           | LED green                                             |
|                 | Signal output                              | Relay contact                                         |
|                 | Approvals                                  |                                                       |
|                 | Approvals                                  | cURus, cULus (prepared), GL (prepared)                |
|                 | Environment                                |                                                       |
|                 | Type of cooling                            | natural convection                                    |
|                 | Ambient temperature                        | -13 °F to +158 °F                                     |
|                 | Storage temperature                        | -13 °F to +185 °F                                     |
|                 | Derating                                   | -2.5 %/K > +131 °F                                    |
|                 | Required minimum spacing (left/right)      | 0.00 inch                                             |
|                 | Required minimum spacing (over/under)      | 1.97 inch                                             |
|                 | Safety and protection                      |                                                       |
|                 | Protection index                           | IP 20                                                 |
|                 | Safety class                               | I, with PE connection                                 |
|                 | Order numbers                              |                                                       |
|                 | Order Number                               | PC-0224-100-2                                         |

| Type            |                                                          | PC-0224-100-2                         |
|-----------------|----------------------------------------------------------|---------------------------------------|
| Mechanical data | Environment                                              |                                       |
|                 | Mounting position                                        | horizontal for standard rail DIN TS35 |
|                 | Terminal and mounting                                    |                                       |
|                 | Terminals signalling (direct plug-in technology Push-in) | max 2,5 mm²                           |
|                 | Terminals input (direct plug-in technology Push-in)      | max 2,5 mm²                           |
|                 | Terminals output (direct plug-in technology Push-in)     | max 2,5 mm²                           |
|                 | Measures and weights                                     |                                       |
|                 | Weight                                                   | 1.76 lbs                              |
|                 | Dimensions in inch                                       |                                       |



Subject to change.