

Power Solid-State Relais PSSR 230VAC/3PH AC 20A

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- Load circuit: triple phase 24...520 VAC / 15 A
- Ready-to-use: simply clip on and connect
- Silent, wear-free switching
- High surge current rating $I^2t = 1500 \text{ A}^2\text{s}$ (10 ms)

General ordering data

| | |
|------------|--|
| Order No. | 8952140000 |
| Type | PSSR 230VAC/3PH AC 20A |
| Version | Power Solid-State Relais, Rated control voltage: 90...240 V AC / DC, Rated switching voltage: 24...520 V AC, Rated switching current: 20 A @ 55 °C, Screw connection |
| GTIN (EAN) | 4032248743261 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|-------|----------|------------|-------|
| Width | 89.6 mm | Height | 98 mm |
| Depth | 126.2 mm | Net weight | 976 g |

Temperatures

| | | | |
|-----------------------|-----------------|---------------------|------------------|
| Operating temperature | -40 °C...+80 °C | Storage temperature | -40 °C...+100 °C |
|-----------------------|-----------------|---------------------|------------------|

Connection data

| | | | |
|--|--------------------|--|---------------------|
| Clamping range, rated connection | 10 mm ² | Clamping range, rated connection, min. | 1.5 mm ² |
| Clamping range, rated connection, max. | 10 mm ² | | |

Control side

| | | | |
|--------------------------------|--------------------|----------------------------------|----------------------|
| Rated control voltage | 90...240 V AC / DC | Power rating | 0.4...2.6 W |
| Input frequency | max. 10 Hz | Cut-in (switch-on) voltage | 90 V AC/DC |
| Dropout voltage | 15 V | Protective circuit, control side | RC element, Varistor |
| Status display on control side | Green LED | | |

Load side

| | | | |
|-------------------------------|----------------------|---------------------------|--|
| Rated switching voltage | 24...520 V AC | Continuous current | 20 A |
| Rated switching current | 20 A @ 55 °C | Pulse load, max. current | 550 A (10 ms) |
| Switch-on delay | 30 ms | Switch-off delay | 30 ms |
| Load category | AC 53: 3 x 12 A | Leakage current | < 1 mA |
| Protective circuit, load side | Varistor, RC element | Voltage drop at max. load | 1.4 V |
| Short-circuit-proof | No | Cartridge fuse | FERRAZ gRC 63 A 22x58 1353 A ² s |

General data

| | | | |
|-----------------------------|-----------------------------|--------------|------------------------------------|
| Solid-state type | Triac (no-voltage switch) | No. of poles | 3 |
| Conductor connection system | Screw connection | Humidity | 40...85 % (indoor) no condensation |
| Standards | DIN EN 60950, IEC 60947-4-3 | | |

Insulation coordination

| | | | |
|---------------------------|-------|---|----------|
| Rated voltage | 300 V | Clearance and creepage distances for control side - load side | ≥ 6.4 mm |
| Impulse withstand voltage | 4 kV | Pollution severity | 2 |
| Surge voltage category | III | | |

Further details of approvals

| | |
|-----------|-----------------------------|
| Standards | DIN EN 60950, IEC 60947-4-3 |
|-----------|-----------------------------|

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001504 | UNSPSC | 30-21-18-01 |
| eClass 5.1 | 27-27-09-90 | eClass 6.0 | 27-37-16-01 |
| eClass 7.0 | 27-37-16-01 | | |

Data sheet...**Power Solid-State Relais
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Technical data**Approvals**

Approvals

**Downloads**

| | |
|---------------------------|--------------------------------|
| Package insert | 4350020000.pdf |
| Declaration of Conformity | K299_02_08.pdf |
| EPLAN | 8952140000.ema |
| 3-D model | |

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Drawings**Electric symbol**