

**Power Solid-State Relais  
PSSR 230VAC/3PH AC 20A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

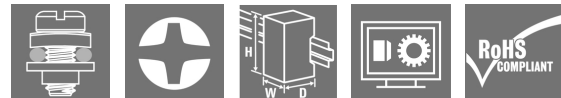
D-32758 Detmold

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www.weidmueller.com

**Product image**

- Load circuit: 3-phase 24...520 VAC / 20 A
- Ready-to-use: snap on - connect - ready
- Wear-free and silent switching
- High capacity for handling surge currents  $I^2t = 1500$  A<sup>2</sup>s (10 ms)

**General ordering data**

|            |                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type       | PSSR 230VAC/3PH AC 20A                                                                                                                                                                                                                         |
| Order No.  | <a href="#">8952140000</a>                                                                                                                                                                                                                     |
| Version    | Power Solid-State Relais, Solid state contactor, 3 NO contact (Triac (zero-cross switch)), Rated control voltage: 90...240 V AC / DC, Rated switching voltage: 24...520 V AC, Continuous current: 20 A @ 55 °C, 12 A (AC 53), Screw connection |
| GTIN (EAN) | 4032248743261                                                                                                                                                                                                                                  |
| Qty.       | 1 pc(s).                                                                                                                                                                                                                                       |

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### Technical data

#### Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Width      | 89.6 mm  | Width (inches)  | 3.528 inch |
| Height     | 98 mm    | Height (inches) | 3.858 inch |
| Depth      | 126.2 mm | Depth (inches)  | 4.968 inch |
| Net weight | 976 g    |                 |            |

#### Temperatures

|                             |                                    |                             |                |
|-----------------------------|------------------------------------|-----------------------------|----------------|
| Humidity                    | 40...85 % (indoor) no condensation | Operating temperature, max. | 80 °C          |
| Operating temperature, min. | -40 °C                             | Storage temperature, max.   | 100 °C         |
| Storage temperature, min.   | -40 °C                             | Operating temperature       | -40 °C...80 °C |
| Storage temperature         | -40 °C...100 °C                    |                             |                |

#### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

#### Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E223474 |
|-------------------------|---------|

#### Control side

|                       |                    |                          |                                                                          |
|-----------------------|--------------------|--------------------------|--------------------------------------------------------------------------|
| Rated control voltage | 90...240 V AC / DC | Nominal control current  | 4.5 mA at 90 V AC/DC,<br>5.75 mA at 115 V AC/DC,<br>11 mA at 240 V AC/DC |
| Power rating          | 0.4...2.6 W        | Cut-in / dropout voltage | 90 V / 15 V AC<br>90 V / 15 V DC                                         |
| Status indicator      | Green LED          | Protective circuit       | RC element, Varistor                                                     |

#### Load side

|                                               |                              |                                               |                            |
|-----------------------------------------------|------------------------------|-----------------------------------------------|----------------------------|
| Rated switching voltage                       | 24...520 V AC                | Continuous current                            | 20 A @ 55 °C, 12 A (AC 53) |
| Load category                                 | AC 53: 3 x 12 A              | Inrush current                                | 550 A                      |
| Pulse load, max. current                      | 300 A (10 ms), non-recurrent | Load limit integral ( $I^2t$ ) <10 ms         | 1,500 A <sup>2</sup> s     |
| Switch-on delay                               | 30 ms                        | Switch-off delay                              | 30 ms                      |
| Voltage drop at max. load                     | 1.4 V                        | Leakage current                               | < 1 mA                     |
| Min. switching current                        | 5 mA                         | Short-circuit-proof                           | No                         |
| Protective circuit, load side                 | Varistor, RC element         | Output voltage frequency range                | 50 / 60 Hz                 |
| max. switching frequency (AC control voltage) | 10 Hz                        | max. switching frequency (DC control voltage) | 10 Hz                      |

#### Contact data

|              |                                          |
|--------------|------------------------------------------|
| Contact type | 3 NO contact (Triac (zero-cross switch)) |
|--------------|------------------------------------------|

#### General data

|         |                                |      |       |
|---------|--------------------------------|------|-------|
| Version | 3-phase with heat sink mounted | Rail | TS 35 |
| Colour  | black                          |      |       |

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## Technical data

### Insulation coordination

|                                                               |                       |                                                  |                     |
|---------------------------------------------------------------|-----------------------|--------------------------------------------------|---------------------|
| Pollution severity                                            | 2                     | Surge voltage category                           | III                 |
| Clearance and creepage distances for control side - load side | ≥ 6.4 mm              | Dielectric strength for control side - load side | 4 kV <sub>eff</sub> |
| Dielectric strength of load side - housing                    | 3.3 kV <sub>eff</sub> | Impulse withstand voltage                        | 4 kV (1.2/50 µs)    |
| Protection degree                                             | IP20                  |                                                  |                     |

### Further details of approvals / standards

|           |                             |                         |         |
|-----------|-----------------------------|-------------------------|---------|
| Standards | DIN EN 60950, IEC 60947-4-3 | Certificate No. (cURus) | E223474 |
|-----------|-----------------------------|-------------------------|---------|

### Connection data (control side)

|                                                     |                     |                                                     |                      |
|-----------------------------------------------------|---------------------|-----------------------------------------------------|----------------------|
| Nom. rated connection clamping range (control side) | 1.5 mm <sup>2</sup> | Min. rated connection clamping range (control side) | 0.75 mm <sup>2</sup> |
| Max. rated connection clamping range (control side) | 2.5 mm <sup>2</sup> | Min. tightening torque (control side)               | 1.2 Nm               |
| Max. tightening torque (control side)               | 2 Nm                | Blade size (control side)                           | Gr. PZ2              |

### Connection data (load side)

|                                                  |                    |                                                  |                     |
|--------------------------------------------------|--------------------|--------------------------------------------------|---------------------|
| Nom. rated connection clamping range (load side) | 10 mm <sup>2</sup> | Min. rated connection clamping range (load side) | 1.5 mm <sup>2</sup> |
| Max. rated connection clamping range (load side) | 10 mm <sup>2</sup> | Min. tightening torque (load side)               | 2 Nm                |
| Max. tightening torque (load side)               | 3 Nm               | Blade size (load side)                           | Gr. PZ2             |

### Connection data

|                        |                  |
|------------------------|------------------|
| Wire connection method | Screw connection |
|------------------------|------------------|

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002055    | ETIM 7.0   | EC002055    |
| eClass 9.0  | 27-37-10-14 | eClass 9.1 | 27-37-10-14 |
| eClass 10.0 | 27-37-10-14 | UNSPSC     | 30-21-18-01 |

### Approvals

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

### Downloads

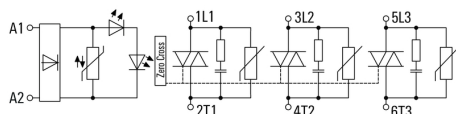
|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Brochure/Catalogue                          | <a href="#">CAT 4.2 ELECTR 18/19 EN</a>                                 |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert - multilingual</a>           |

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

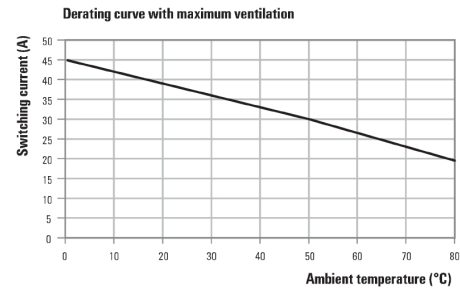
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## Drawings

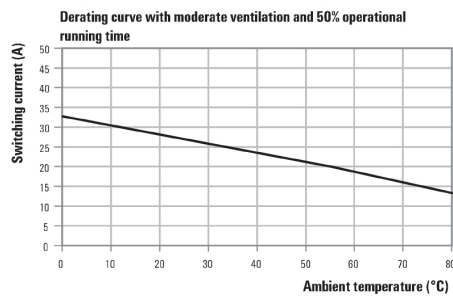
### Wiring diagram



### Graph

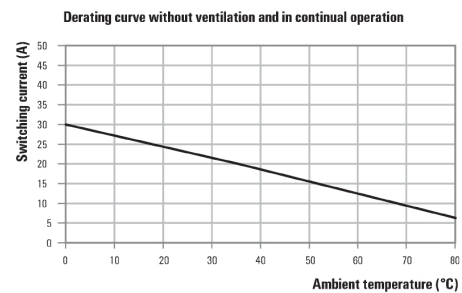


### Graph



DC load limit curve

### Graph



DC load limit curve

### Dimensional drawing

