

## Power Solid-State Relais PSSR 24VDC/3PH AC 20A

**Weidmüller Interface GmbH & Co. KG**  
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- 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 24VDC/3PH AC 20A
Order No.	<a href="#">8952130000</a>
Version	Power Solid-State Relais, Rated control voltage: 8...30 V DC / 10...30 V AC, Rated switching voltage: 24...520 V AC, Rated switching current: 20 A @ 55 °C, Screw connection
GTIN (EAN)	4032248743254
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	982 g

### Temperatures

Humidity	40...85 % (indoor) no condensation	Operating temperature	-40 °C...+80 °C
Storage temperature	-40 °C...+100 °C		

### Probability of failure

MTTF	228 Years
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### control side

Rated control voltage	8...30 V DC / 10...30 V AC	Power rating	0.1...2 W
Input frequency	max. 10 Hz	Cut-in (switch-on) voltage	8 V DC / 10 V AC
Dropout voltage	4 V	Protective circuit, control side	RC element, Varistor
Status display on control side	Green LED		

### Load side

Load limit integral ( $I^2t$ ) <10 ms	1,500 A <sup>2</sup> s	Min. switching current	5 mA
Output voltage frequency range	50 / 60 Hz	Solid-state type	Triac (zero-cross switch)
Rated switching voltage	24...520 V AC	Continuous current	20 A
Rated switching current	20 A @ 55 °C	Pulse load, max. current	300 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 <sup>2</sup> s

### General data

Solid-state type	Triac (zero-cross switch)	No. of poles	3
Wire connection method	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
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**Data sheet**

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**Technical data**

**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		

**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		

**Connection data**

Wire connection method	Screw connection
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**Classifications**

ETIM 3.0	EC001504	UNSPSC	30-21-18-01
eClass 5.1	27-27-09-90	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01		

**Product information**

Descriptive text ordering data	Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.
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**Approvals**

Approvals



**Downloads**

Package insert	<a href="#">4350020000.pdf</a>
Declaration of Conformity	<a href="#">K299_02_08.pdf</a>
EPLAN	<a href="#">8952130000.ema</a>
<a href="#">3-D model</a>	

**Data sheet**

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**Drawings**

**Electric symbol**

