

**Power Solid-State Relais
PSSR 24VDC/1PH AC 20A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



- Load circuit: single-phase 12...275 VAC / 25 A or 24...600 VAC / 35 A
- No-voltage switching
- Ready-to-use: snap on - connect - ready
- Wear-free and silent switching
- High capacity for handling surge currents (I^2t) up to 6000 A²s (10 ms)
- Plug-in monitoring module

General ordering data

Type	PSSR 24VDC/1PH AC 20A
Order No.	8952110000
Version	Power Solid-State Relais, Rated control voltage: 3...32 V DC, Rated switching voltage: 12...275 V AC, Rated switching current: 20 A @ 55 °C
GTIN (EAN)	4032248743216
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	22.5 mm	Height	98 mm
Depth	116.1 mm	Net weight	265 g

Temperatures

Humidity	40...85 % (indoor) no condensation	Operating temperature	-30 °C...+80 °C
Storage temperature	-30 °C...+100 °C		

Probability of failure

MTTF	228 Years
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control side

Rated control voltage	3...32 V DC	Power rating	0.03...0.3 W
Input frequency	max. 10 Hz	Cut-in (switch-on) voltage	3 V
Dropout voltage	1 V	Protective circuit, control side	Varistor
Status display on control side	Green LED		

Load side

Solid-state type	Triac (zero-cross switch)	Rated switching voltage	12...275 V AC
Continuous current	20 A	Rated switching current	20 A @ 55 °C
Pulse load, max. current	250 A (10 ms)	Switch-on delay	≤ 10 ms
Switch-off delay	≤ 10 ms	Load category	AC 53: 5 A
Leakage current	< 1 mA	Protective circuit, load side	Varistor
Voltage drop at max. load	0.85 V	Short-circuit-proof	No
Cartridge fuse	FERRAZ gRC 25 A 14x51 165 A ² s		

General data

Solid-state type	Triac (zero-cross switch)	No. of poles	1
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 (1.2/50 µs)	Pollution severity	2
Surge voltage category	III		

Further details of approvals

Standards	DIN EN 60950, IEC 60947-4-3
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Technical data

connection data (control side)

Wire connection method (control side)	Screw connection	Nom. rated connection clamping range (control side)	1.5 mm ²
Min. rated connection clamping range (control side)	0.75 mm ²	Max. rated connection clamping range (control side)	2.5 mm ²
Min. tightening torque (control side)	0.4 Nm	Max. tightening torque (control side)	0.6 Nm

connection data (load side)

Wire connection method (load side)	Screw connection	Nom. rated connection clamping range (load side)	16 mm ²
Min. rated connection clamping range (load side)	1.5 mm ²	Max. rated connection clamping range (load side)	16 mm ²
Min. tightening torque (load side)	1.2 Nm	Max. tightening torque (load side)	1.8 Nm

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.

Approvals

Approvals



Downloads

Declaration of Conformity	K299_02_08.pdf
EPLAN	8952110000.ema

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Drawings

Electric symbol

