

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

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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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 $I^2t = 1500$ A²s (10 ms)

General ordering data

Type	PSSR 230VAC/3PH AC 20A
Order No.	8952140000
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

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

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

Load limit integral (I^2t) <10 ms	1,500 A ² 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 ² 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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connection data (control side)

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)	1.2 Nm
Max. tightening torque (control side)	2 Nm		

Creation date October 30, 2013 11:15:01 AM CET

Data sheet

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Technical data

connection data (load side)

Nom. rated connection clamping range (load side)	10 mm ²	Min. rated connection clamping range (load side)	1.5 mm ²
Max. rated connection clamping range (load side)	10 mm ²	Min. tightening torque (load side)	2 Nm
Max. tightening torque (load side)	3 Nm		

Connection data

Wire connection method Screw connection

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

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

Data sheet

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Drawings

Electric symbol

