

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

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

General ordering data

Type	PSSR 24VDC/3PH AC 20A
Order No.	8952130000
Version	Power Solid-State Relais, Solid state contactor, 3 NO contact (Triac (zero-cross switch)), Rated control voltage: 8...30 V DC / 10...30 V AC , Rated switching voltage: 24...520 V AC, Continuous current: 20 A @ 55 °C, 12 A (AC 53), Screw connection
GTIN (EAN)	4032248743254
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	953 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		

Probability of failure

MTTF	228 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E360862
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Control side

Rated control voltage	8...30 V DC / 10...30 V AC	Nominal control current	15 mA at 8.5 V DC, 18 mA at 10 V AC/DC, 50 mA at 24 V AC/DC, 65 mA at 30 V AC/DC
Power rating	0.1...2 W	Cut-in / dropout voltage	10 V / 4 V AC 8 V / 4 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)
Rated switching current	20 A @ 55 °C	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 ² 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))
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Creation date May 28, 2019 12:36:24 AM CEST

Catalogue status 23.05.2019 / We reserve the right to make technical changes.

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Technical data

General data

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

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 _{eff}
Dialectric strength of load side - housing	3.3 kV _{eff}	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)	E360862
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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	Blade size (control side)	Gr. PZ2

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	Blade size (load side)	Gr. PZ2

Connection data

Wire connection method	Screw connection
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Classifications

ETIM 3.0	EC001504	ETIM 4.0	EC001437
ETIM 5.0	EC001437	ETIM 6.0	EC002055
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
eClass 8.1	27-37-16-01	eClass 9.0	27-37-10-14
eClass 9.1	27-37-10-14		

Approvals

Approvals



ROHS	Conform
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Data sheet**Power Solid-State Relais
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Technical data**Downloads**

Approval/Certificate/Document of Conformity	DE_PA5600_160620_004.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	4350020000.pdf

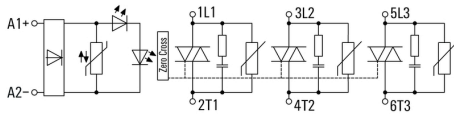
Data sheet

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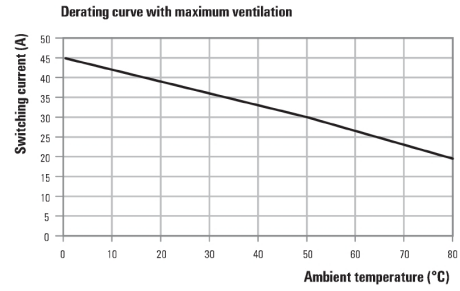
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Drawings

Wiring diagram

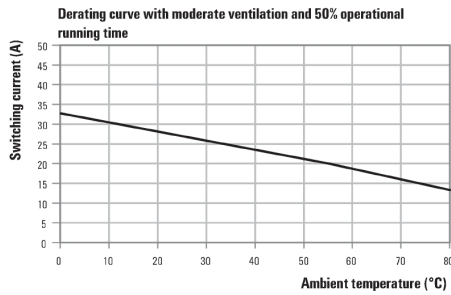


Graph



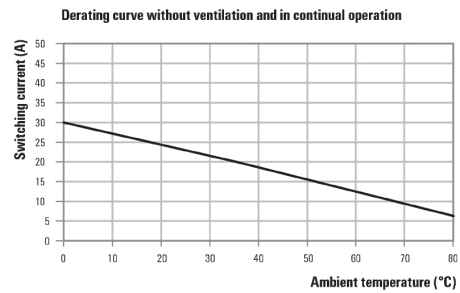
DC load limit curve Low ventilation

Graph



DC load limit curve

Graph



DC load limit curve

Dimensional drawing

