

PSSR 24VDC/3PH AC 20A

Weidmüller Interface GmbH & Co. KG

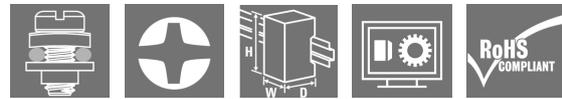
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



- Load circuit: 3-phase 24...520 V AC / 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

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
Order No.	8952130000
Type	PSSR 24VDC/3PH AC 20A
GTIN (EAN)	4032248743254
Qty.	1 pc(s).

Creation date March 30, 2021 12:00:23 AM CEST

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Technical data

Dimensions and weights

Depth	126.2 mm	Depth (inches)	4.968 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	953 g	Width	89.6 mm
Width (inches)	3.528 inch		

Temperatures

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

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)	E223474
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Control side

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
Protective circuit	RC element, Varistor	Pull-in/drop-out voltage, typ.	10 V / 4 V AC 8 V / 4 V DC
Status indicator	Green LED		

Load side

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

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

Insulation coordination

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

Further details of approvals / standards

Standards	DIN EN 60950, IEC 60947-4-3	Certificate No. (cURus)	E223474
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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 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	ECLASS 11.0	27-37-10-14

Approvals

Approvals



ROHS	Conform
UL File Number Search	E223474

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Technical data**Downloads**

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Package Insert - multilingual

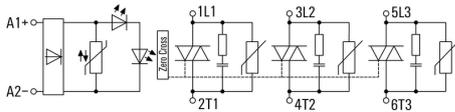
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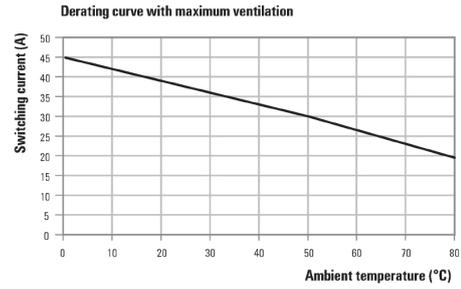
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Drawings

Wiring diagram

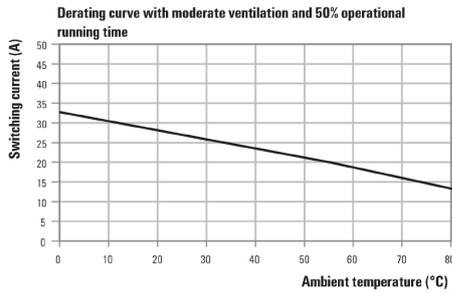


Graph



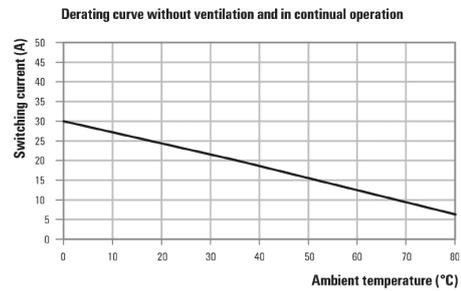
DC load limit curve Low ventilation

Graph



DC load limit curve

Graph



DC load limit curve

Dimensional drawing

