

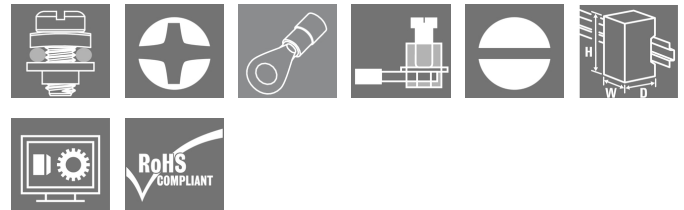
PSSR 24VDC/1PH AC 25A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

- Load circuit: 1-phase 12...275 V AC / 25 A or 24...600 V AC / 35 A
- Zero-cross switch or instantaneous-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 current-monitoring module

General ordering data

Version	Power Solid-State Relais, Solid state contactor, 1 NO contact (Triac (zero-cross switch)), Rated control voltage: 3.5...32 V DC, Rated switching voltage: 12...275 V AC, Continuous current: 17 A (AC51) at 40 °C, 3.5 A (AC 53)
Order No.	1406200000
Type	PSSR 24VDC/1PH AC 25A
GTIN (EAN)	4050118206821
Qty.	1 pc(s).

Creation date March 23, 2021 9:24:34 PM CET

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Technical data**Dimensions and weights**

Depth	115.9 mm	Depth (inches)	4.563 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	244 g	Width	22.5 mm
Width (inches)	0.886 inch		

Temperatures

Storage temperature	-55 °C...125 °C	Operating temperature	-55 °C...100 °C
Humidity	40...85 % (indoor) no condensation		

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

Nominal control current	13.4 mA DC ± 20 %	Power rating	< 500 mW
Protective circuit	Suppressor diode	Pull-in/drop-out voltage, typ.	3 V / 2 V DC
Rated control voltage	3.5...32 V DC	Status indicator	LED yellow

Load side

Continuous current	17 A (AC 51) @ 40 °C; 3.5 A (AC 53)	Inrush current	140 A (10 ms)
Leakage current	≤ 1 mA	Load category	AC 51, AC 53
Load limit integral (I^2t) <10 ms	340 A ² s	Max. switching current	25 A
Min. switching current	5 mA	Output voltage frequency range	50...60 Hz
Protective circuit, load side	Varistor	Pulse load, max. current	250 A (10 ms), non-recurrent
Rated switching voltage	12...275 V AC	Short-circuit-proof	No
Switch-off delay	≤ 10 ms	Switch-on delay	≤ 10 ms
Voltage drop at max. load	≤ 1.25 V	max. switching frequency (DC control voltage)	10 Hz

Contact data

Contact type	1 NO contact (Triac (zero-cross switch))
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General data

Version	Single-phase with mounted heat sink (zero-voltage switch output)	Rail	TS 35
Colour	black		

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Technical data

Insulation coordination

Clearance and creepage distances for control side - load side	≥ 6,5 mm	Dielectric strength of load side - housing	4 kV _{eff}
Dielectric strength for control side - load side	4 kV _{eff}	Impulse withstand voltage	4 kV (1.2/50 µs)
Insulation coordination according to	EN 60947-4-3:2014	Pollution severity	2
Protection degree	IP20	Surge voltage category	III

Further details of approvals / standards

Standards	EN 60947-4-3, EN 60950, IEC 60335-1	Certificate No. (cURus)	E360862
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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)	0.13 mm ²	Max. rated connection clamping range (control side)	3.3 mm ²
Min. tightening torque (control side)	0.4 Nm	Max. tightening torque (control side)	0.5 Nm
Blade size (control side)	0.6 x 3.5 mm		

Connection data (load side)

Wire connection method (load side)	Screw connection	Nom. rated connection clamping range (load side)	6 mm ²
Min. rated connection clamping range (load side)	1.5 mm ²	Max. rated connection clamping range (load side)	6 mm ²
Wire connection method (load side)	M5 ring cable lug (insulated)	Min. tightening torque (load side)	2 Nm
Max. tightening torque (load side)	3 Nm	Blade size (load side)	Gr. PZ2

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	E360862

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

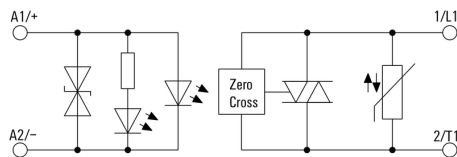
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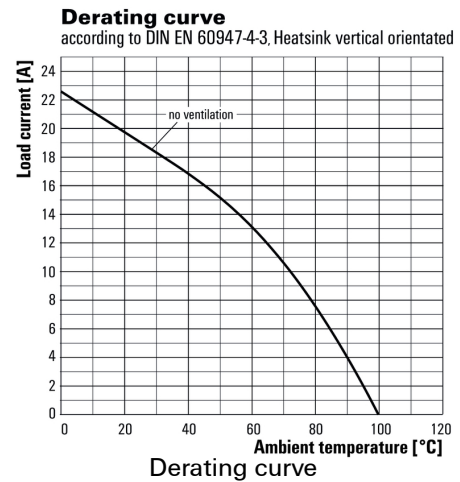
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Drawings

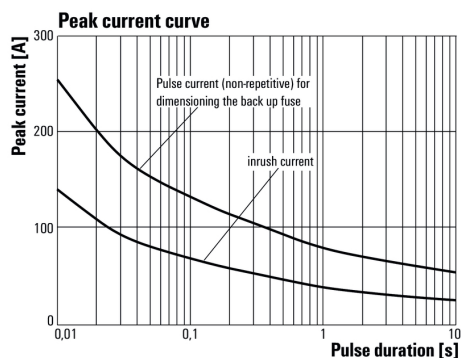
Wiring diagram



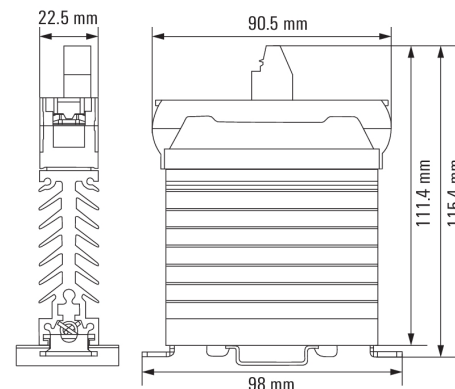
Graph



Graph



Dimensional drawing

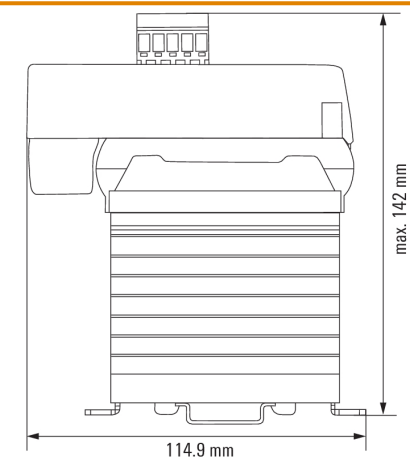


Example of use



Optional plug-in current-monitoring module (item no.: 1406230000)

Dimensional drawing



Dimensions of a 1-phase PSSR with current monitoring module attached

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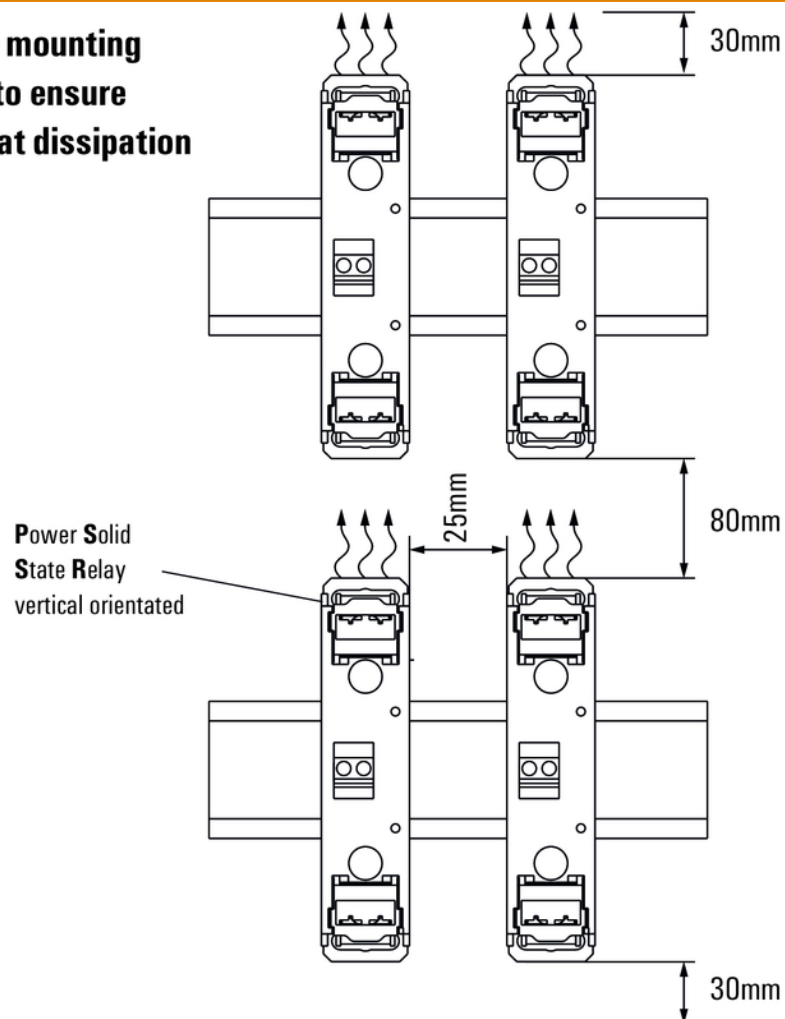
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Drawings

Miscellaneous

**Suggested mounting
distances to ensure
optimal heat dissipation**



Signal characteristics of zero cross switching PSSR

shown at an example with resistive load

