

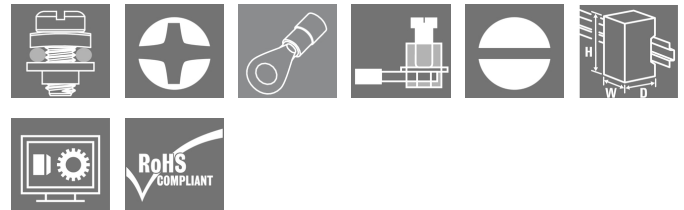
PSSR 24VDC/1PH AC 22A I**Weidmüller Interface GmbH & Co. KG**

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 (Thyristor (instantaneous-switching)), Rated control voltage: 3.5...32 V DC, Rated switching voltage: 24...510 V AC, Continuous current: 22 A (AC51) at 40 °C, 7 A (AC 53)
Order No.	2531050000
Type	PSSR 24VDC/1PH AC 22A I
GTIN (EAN)	4050118541168
Qty.	1 pc(s).

Creation date March 29, 2021 6:51:46 PM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

PSSR 24VDC/1PH AC 22A I

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Technical data

Dimensions and weights

Depth	115.4 mm	Depth (inches)	4.543 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	252 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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Control side

Nominal control current	13.4 mA DC $\pm$ 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	22 A (AC 51) @ 40 °C; 7 A (AC 53)	Inrush current	290 A (10 ms)
Leakage current	$\leq$ 1 mA	Load category	AC 51, AC 53
Load limit integral (I^2t) <10 ms	1,400 A ² s	Max. switching current	50 A
Min. switching current	5 mA	Output voltage frequency range	50...60 Hz
Protective circuit, load side	Varistor	Pulse load, max. current	530 A (10 ms), non-recurrent
Rated switching voltage	24...510 V AC	Short-circuit-proof	No
Switch-off delay	$\leq$ 10 ms	Switch-on delay	$\leq$ 0.1 ms
Voltage drop at max. load	$\leq$ 1.25 V	max. switching frequency (DC control voltage)	10 Hz

Contact data

Contact type	1 NO contact (Thyristor (instantaneous-switching))
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General data

Version	Single-phase with mounted heat sink (instantaneous-switching output)	Rail	TS 35
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Insulation coordination

Clearance and creepage distances for control side - load side	$\geq$ 3.2 mm	Dielectric strength of load side - housing	4 kV _{eff}
Dielectric strength for control side - load side	3.3 kV _{eff} / 1 min.	Impulse withstand voltage	4 kV (1.2/50 μ s)
Insulation coordination according to	EN 60947-4-3:2014	Pollution severity	2
Protection degree	IP20	Surge voltage category	III

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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)	0.13 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

Downloads

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

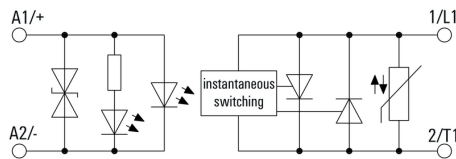
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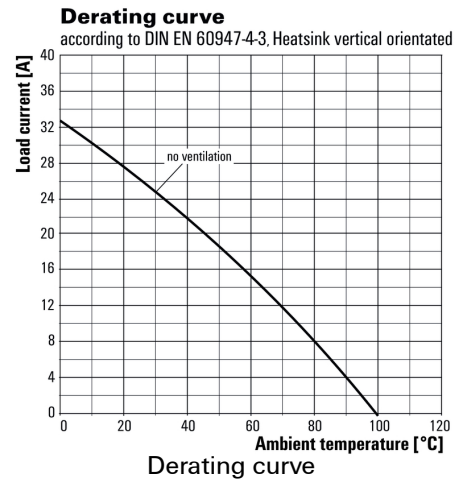
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Drawings

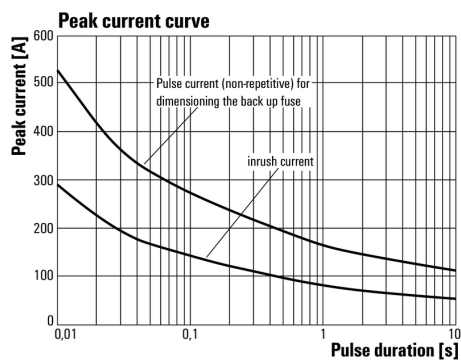
Wiring diagram



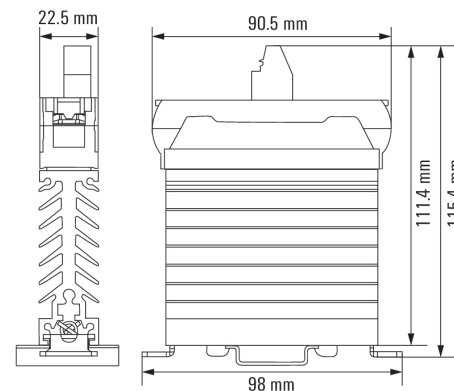
Graph



Graph



Dimensional drawing

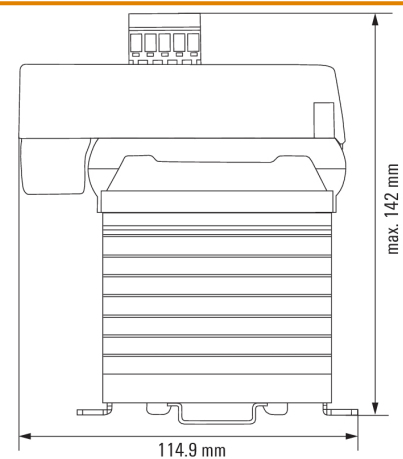


Example of use



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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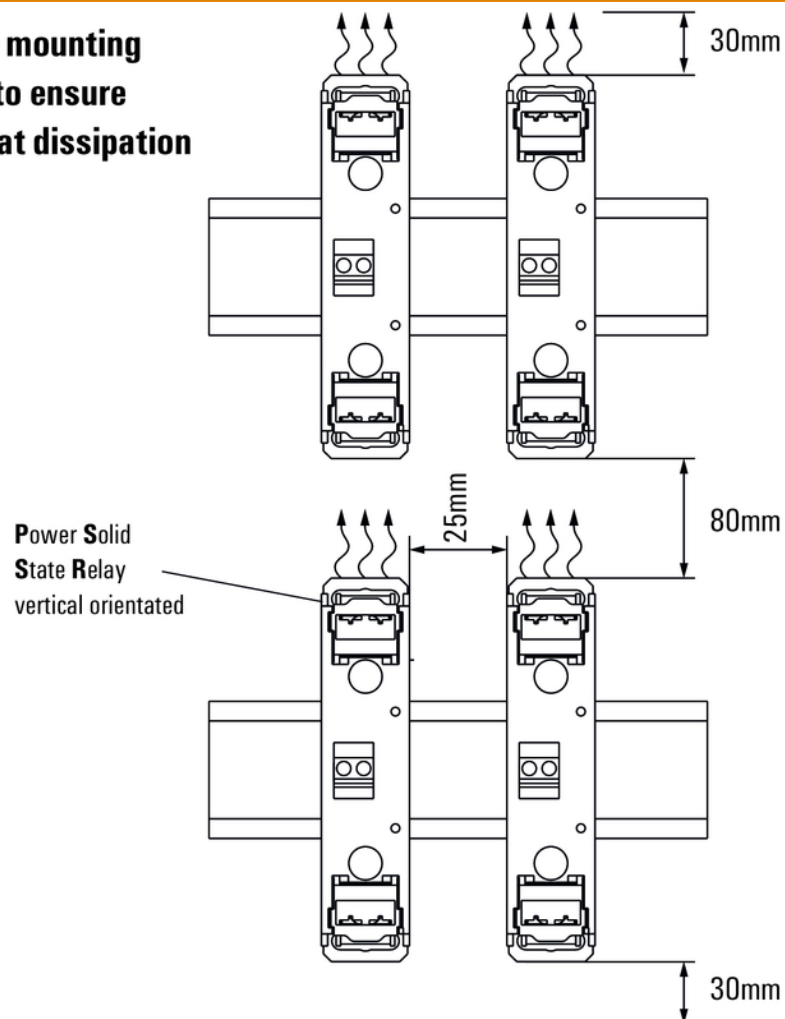
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Drawings

Miscellaneous

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



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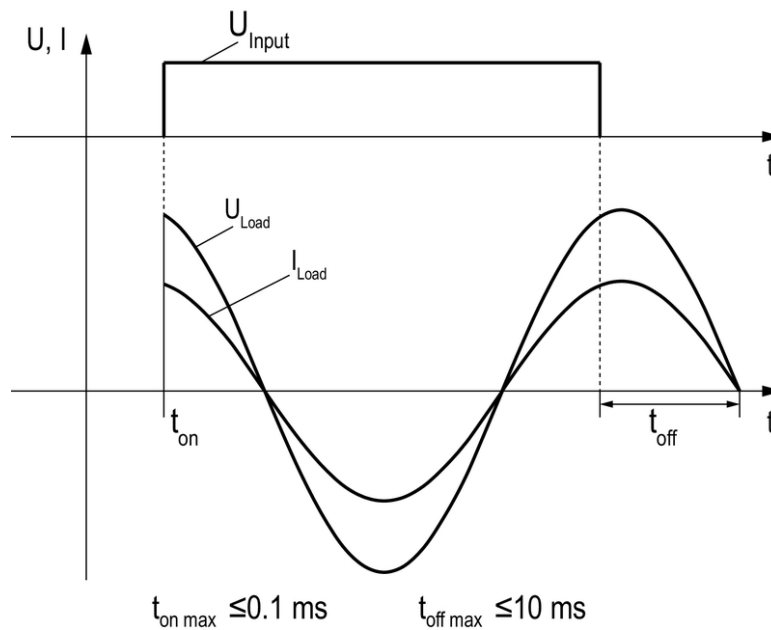
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Drawings
Signal characteristics of instantaneous switching PSSR

shown at an example with resistive load


Type codes
