

PSSR 24VDC/1PH AC75A HP**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration



- Load circuit: 1-phase 26...600 V AC / 50 A or 75 A
- Zero-cross switch
- Wear-free and silent switching
- High capacity for handling surge currents (I^2t) up to 6000 A²s (10 ms)
- Plug-in current-monitoring module
- Compact design for direct mounting on a metal surface or heat sink

General ordering data

Version	Power Solid-State Relais, Solid state contactor, Rated control voltage: 3.5...32 V DC , Rated switching voltage: 24...600 V AC, Continuous current: 62 A (AC5 1) at 40 °C, mounted on heatsink with 0.75 K/W, Screw connection
Order No.	1406250000
Type	PSSR 24VDC/1PH AC75A HP
GTIN (EAN)	4050118206852
Qty.	2 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2022-09-30

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Technical data

Dimensions and weights

Depth	29 mm	Depth (inches)	1.142 inch
Height	58.5 mm	Height (inches)	2.303 inch
Width	45 mm	Width (inches)	1.772 inch
Net weight	88 g		

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

Rated control voltage	3.5...32 V DC	Nominal control current	13.4 mA DC ± 20 %
Power rating	≤ 280 mW	Pull-in/drop-out voltage, typ.	3 V / 2 V DC
Status indicator	Green LED	Protective circuit	Suppressor diode

Load side

Rated switching voltage	24...600 V AC	Continuous current	62 A (AC51) at 40 °C, mounted on heatsink with 0.75 K/W
Max. switching current	90 A	Load category	AC 51
Inrush current	600 A (10 ms)	Pulse load, max. current	1100 A (10 ms), non-recurrent
Load limit integral (I^2t) < 10 ms	6,000 A ² s	Switch-on delay	≤ 10 ms
Switch-off delay	≤ 10 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
Contact type	1 NO contact (Thyristor (zero-cross switch))	Output voltage frequency range	50 / 60 Hz
max. switching frequency (DC control voltage)	10 Hz		

General data

Version	Single-phase without heat sink (zero-voltage switch output)	Colour	black
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Insulation coordination

Pollution severity	2	Surge voltage category	III
Dielectric strength for control side - load side	4 kV _{eff}	Dielectric strength of load side - housing	4 kV _{eff}
Impulse withstand voltage	4 kV (1.2/50 μ s)	Protection degree	IP20

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Technical data**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)	0.75 mm ²	Max. rated connection clamping range (control side)	2.5 mm ²
Wire connection method (control side)	M4 ring cable lug (insulated)	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)

Wire connection method (load side)	Screw connection	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
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

Connection data

Wire connection method	Screw connection
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Classifications

ETIM 6.0	EC002055	ETIM 7.0	EC002055
ETIM 8.0	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	ECLASS 12.0	27-37-10-14

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E360862

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Package Insert - multilingual
Catalogues	Catalogues in PDF-format
Brochures	

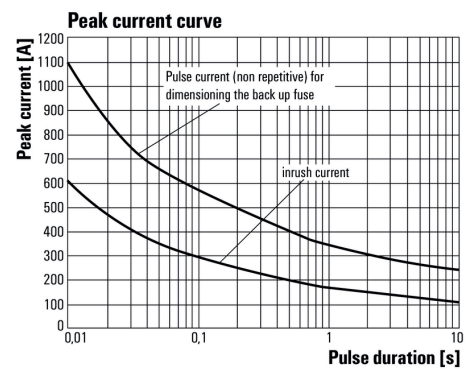
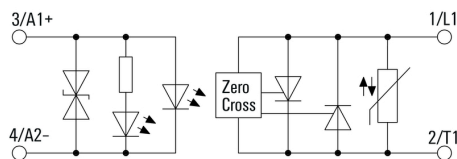
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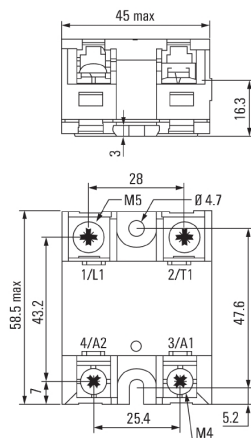
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Drawings

Wiring diagram



Dimensional drawing



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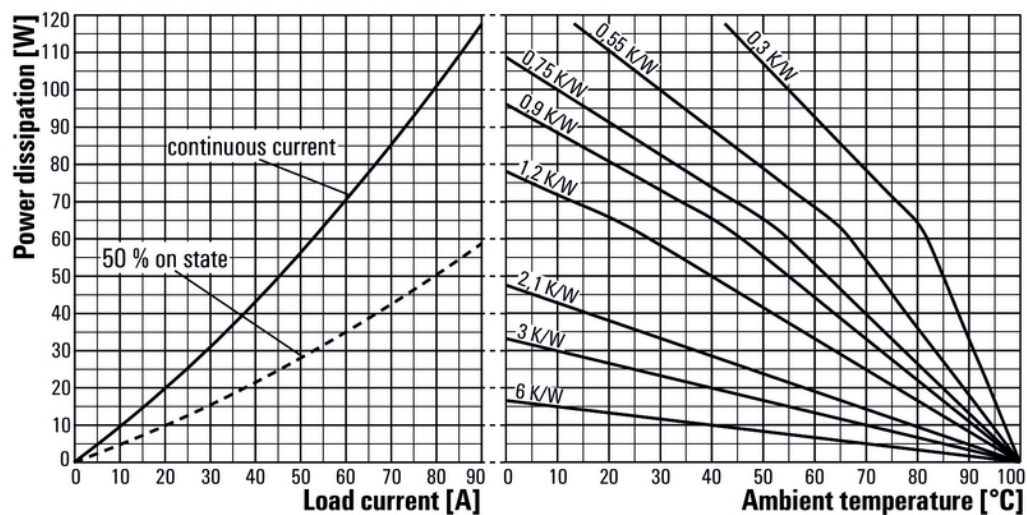
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www.weidmueller.com**Drawings****Derating curve**

Thermal curves and heatsink choice

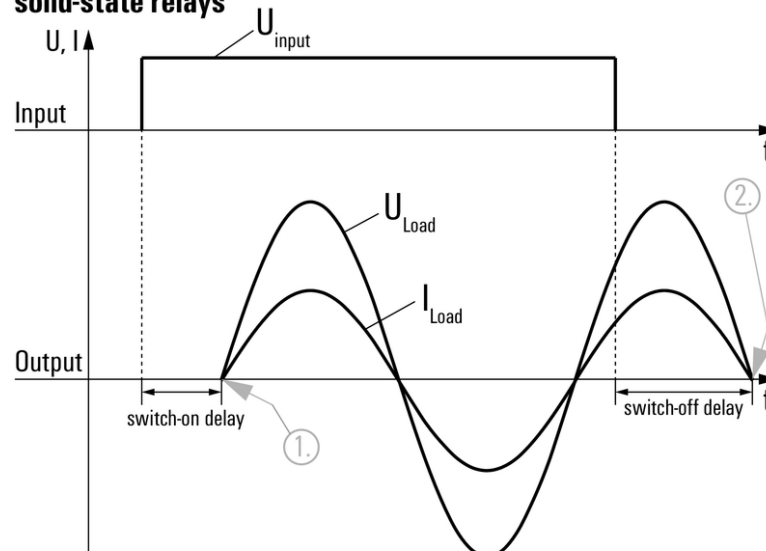


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www.weidmueller.com**Drawings****Signal characteristics of zero cross switching
solid-state relays**

Shown at an example with resistive load.

1. Switches on at first zero cross of mains voltage while control input gets signal.
2. Switches off at next zero cross of mains current after control input signal was switched off.

Switching DC voltages is not possible with this solid-state relays.