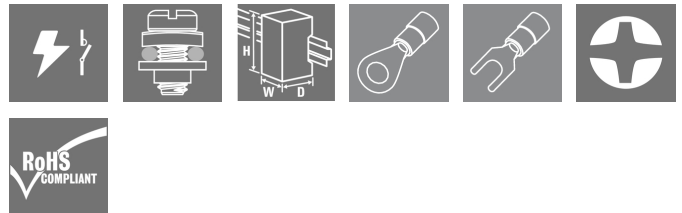


PSSRN K 24VDC 1D K 1000VDC 15A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Switch high DC loads up to 1000 V DC and 15 A completely wear-free, reliable and noiseless.

- Load circuit 1-phase: 24...1000 V DC / 15 A
- DC industry ready Thanks to the switching voltage of up to 1000 V DC
- Compact design with a width from 17.8 mm
- Ready to use with integrated heat sink and mounting rail base for mounting on DIN rail TS35
- Output connections ring lug suitable

General ordering data

Version	Power Solid-State Relais, Solid state contactor, Rated control voltage: 4.5...32 V DC , Rated switching voltage: 20.4...1000 V DC (IEC), Continuous current: 15 A
Order No.	2986930000
Type	PSSRN K 24VDC 1D K 1000VDC 15A
GTIN (EAN)	4099986853058
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	140.5 mm	Depth (inches)	5.531 inch
Height	110 mm	Height (inches)	4.331 inch
Width	17.8 mm	Width (inches)	0.701 inch
Net weight	260 g		

Temperatures

Storage temperature	-40 °C...100 °C	Operating temperature	-40 °C...80 °C
Humidity	95% relative humidity, non-condensing @ 40°C		

Probability of failure

MTTF	18 a
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Control side

Rated control voltage	4.5...32 V DC	Nominal control current	8.5 mA...13.5 mA
Status indicator	Green LED		

Load side

Rated switching voltage	20.4...1000 V DC (IEC)	Continuous current	15 A (DC1) @ 40 °C; 5 A (DC 3)
Max. switching current	15 A	Load category	DC1, DC 3, DC 5
Pulse load, max. current	200 A (10 µs, non-recurrent)	Switch-on delay	0.1 ms
Switch-off delay	250 µs	Voltage drop at max. load	≤ 1.6 V
Leakage current	<1.5 mA	Min. switching current	20 mA
Short-circuit-proof	No	Protective circuit, load side	Integrated free-wheel diode
Contact type	1 NO contacts (IGBT)	max. switching frequency (DC control voltage)	20 Hz

General data

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

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	6 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Certificate no. (cULus)	E537615
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Technical data

Connection data (control side)

Stripping length, control side	8 mm	Wire connection cross-section, solid, control side, max.	2.5 mm ²
Wire connection cross-section, solid, control side, max. (AWG)	AWG 18	Wire connection cross-section, solid, control side, min. (AWG)	AWG 12
Wire connection cross-section, twin wire-end ferrules, control side, max.	2.5 mm ²	Wire connection cross-section, twin wire-end ferrules, control side, min.	0.5 mm ²
Wire connection method (control side)	Screw connection	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)	M3 screw with captivated washer
Min. tightening torque (control side)	0.5 Nm	Max. tightening torque (control side)	0.6 Nm
Blade size (control side)	PZ 1		

Connection data (load side)

Stripping length, load side	12 mm	Wire connection cross-section, finely stranded, two clampable wires, load side, max.	6 mm ²
Wire connection cross-section, finely stranded, two clampable wires, load side, max. (AWG)	AWG 18	Wire connection cross-section, finely stranded, two clampable wires, load side, min.	1 mm ²
Wire connection cross-section, finely stranded, two clampable wires, load side, min. (AWG)	AWG 10	Wire connection cross-section, solid, load side, max.	6 mm ²
Wire connection cross-section, solid, load side, max. (AWG)	AWG 14	Wire connection cross-section, solid, load side, min.	2.5 mm ²
Wire connection cross-section, solid, load side, min. (AWG)	AWG 10	Wire connection cross-section, stranded, load side, max.	6 mm ²
Wire connection cross-section, stranded, load side, max. (AWG)	AWG 18	Wire connection cross-section, stranded, load side, min.	1 mm ²
Wire connection cross-section, stranded, load side, min. (AWG)	AWG 10	Wire connection cross-section, twin wire-end ferrules, load side, max. (AWG)	AWG 18
Wire connection cross-section, twin wire-end ferrules, load side, min. (AWG)	AWG 12	Wire connection method (load side)	Screw connection
Min. rated connection clamping range (load side)	2.5 mm ²	Max. rated connection clamping range (load side)	6 mm ²
Wire connection method (load side)	M4 screw with captivated washer	Min. tightening torque (load side)	1.5 Nm
Max. tightening torque (load side)	2 Nm	Blade size (load side)	PZ 2

Classifications

ETIM 6.0	EC002055	ETIM 7.0	EC002055
ETIM 8.0	EC002055	ETIM 9.0	EC002055
ETIM 10.0	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
ECLASS 13.0	27-37-10-14	ECLASS 14.0	27-37-10-14
ECLASS 15.0	27-37-10-14		

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www.weidmueller.com**Technical data****Approvals**

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/
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ROHS	Conform
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UL File Number Search	UL Website
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Certificate no. (cULus)	E537615
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
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RoHS Exemption (if applicable/known)	7cl
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REACH SVHC	No SVHC above 0.1 wt%
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Downloads

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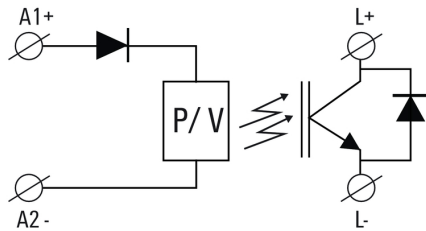
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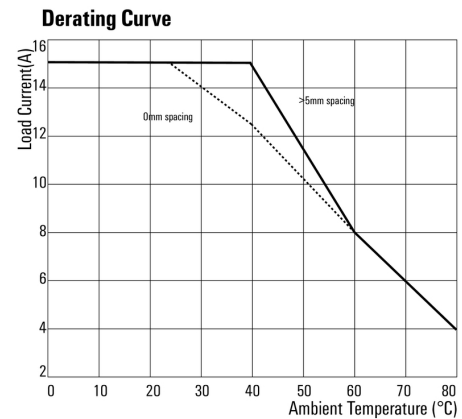
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Drawings

Wiring diagram

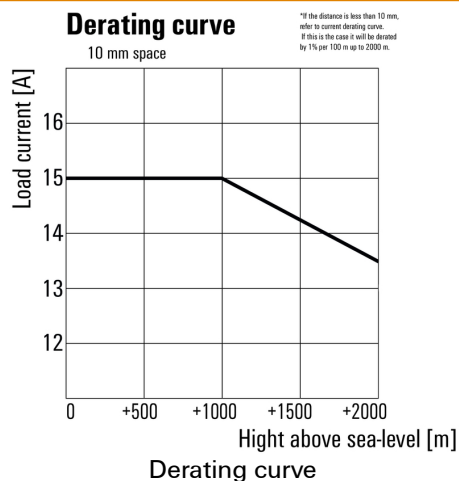


Graph



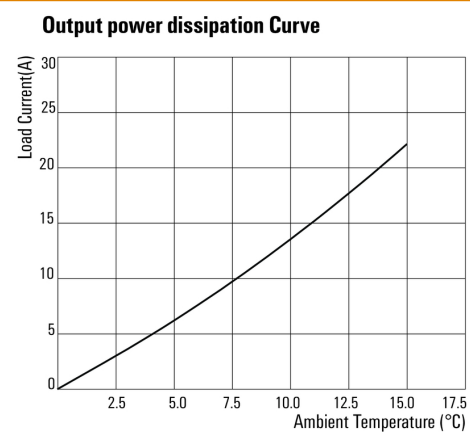
Derating curve

Graph

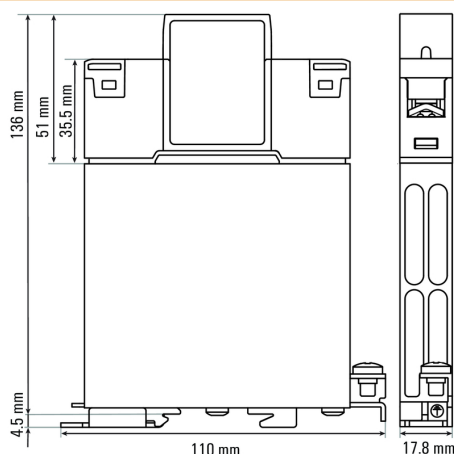


Derating curve

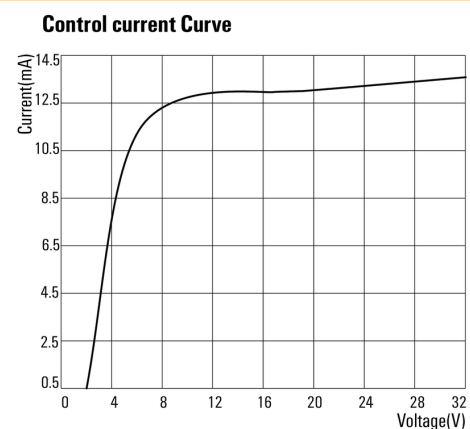
Graph



Dimensional drawing



Graph



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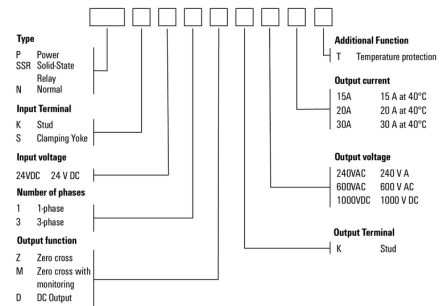
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Drawings

Miscellaneous

Power Solid-State Relay (PSSR)



Type codes

Miscellaneous

Suggested mounting distances to ensure optimal heat dissipation

