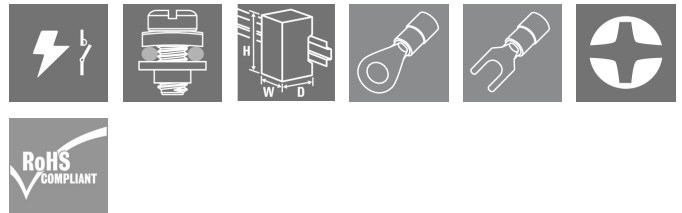


PSSRN K 24VDC 1D K 1000VDC 15A**Weidmüller Interface GmbH & Co. KG**

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).

PSSRN K 24VDC 1D K 1000VDC 15A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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
------	------

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
-------------------------	---------

PSSRN K 24VDC 1D K 1000VDC 15A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Connection data (control side)

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)

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)	Gr. PZ2		

Classifications

ETIM 6.0	EC002055	ETIM 7.0	EC002055
ETIM 8.0	EC002055	ETIM 9.0	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

Environmental Product Compliance

REACH SVHC

/

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E537615

Downloads

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

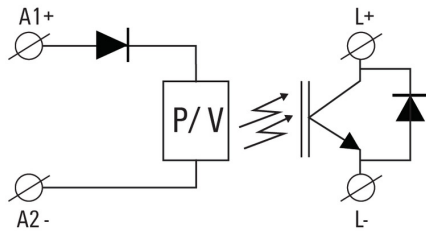
PSSRN K 24VDC 1D K 1000VDC 15A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

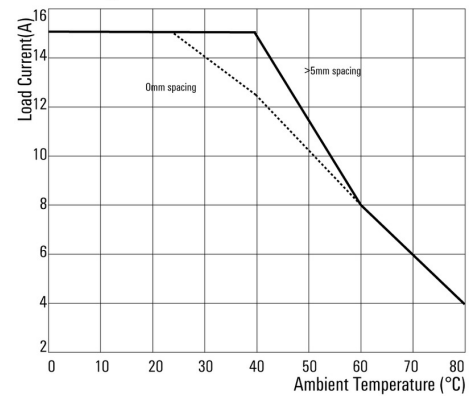
Drawings

Wiring diagram



Graph

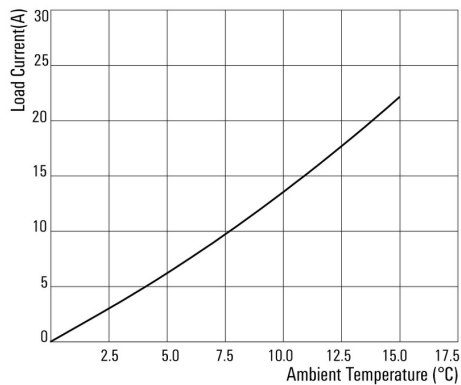
Derating Curve



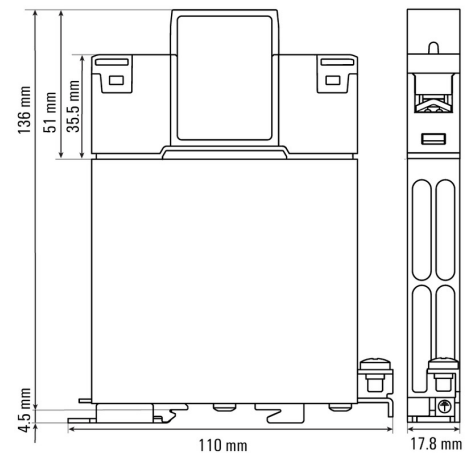
Derating curve

Graph

Output power dissipation Curve

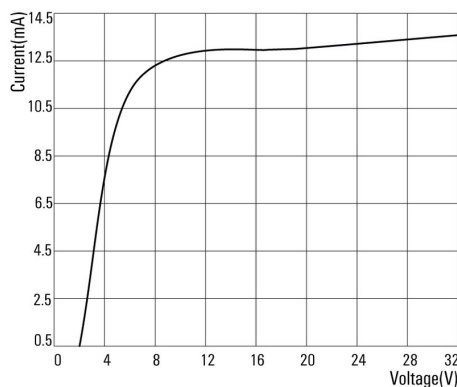


Dimensional drawing



Graph

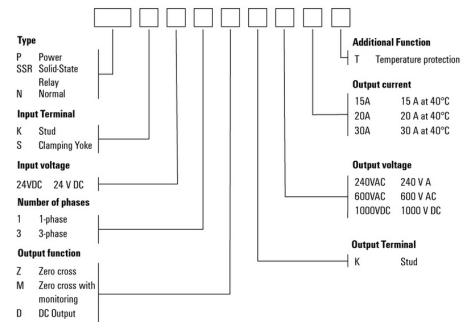
Control current Curve



PSSRN K 24VDC 1D K 1000VDC 15A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Drawings
Miscellaneous
Power Solid-State Relay (PSSR)

Type codes
Miscellaneous

Suggested mounting distances to ensure optimal heat dissipation

Power Solid State Relay vertical orientated

