

## PSSR 24VDC/3PH AC 20A

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

[www.weidmueller.com](http://www.weidmueller.com)

### Product image



Switch high 3-phase AC loads up to 600 V AC and 20 A completely wear-free, reliable and noiseless.

- Load circuit 3-phase: 42...600 V AC / 20 A
- Compact design with a width from 54 mm
- Ready to use with integrated heat sink and mounting rail base for mounting on DIN rail TS35
- Short circuit protection with circuit breakers possible
- Output connections ring lug suitable

### General ordering data

Version	Power Solid-State Relais, Solid state contactor, Rated control voltage: 8...30 V DC / 10...30 V AC, Rated switching voltage: 24...520 V AC, Continuous current: 20 A @ 55 °C, 12 A (AC 53), Screw connection
Order No.	<a href="#">8952130000</a>
Type	PSSR 24VDC/3PH AC 20A
GTIN (EAN)	4032248743254
Qty.	1 items
Delivery status	Discontinued
Available until	2024-06-23T00:00:00+02:00
Alternative product	<a href="#">PSSRN K 24VDC 3Z K 600VAC 20A</a>

Creation date 18.02.2026 05:58:38 MEZ

Catalogue status / Drawings

## PSSR 24VDC/3PH AC 20A

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E360862

## Dimensions and weights

Depth	126.2 mm	Depth (inches)	4.9685 inch
Height	98 mm	Height (inches)	3.8583 inch
Width	89.6 mm	Width (inches)	3.5276 inch
Net weight	830 g		

## Temperatures

Storage temperature	-40 °C...100 °C	Operating temperature	-40 °C...80 °C
Humidity	40...85 % (indoor) no condensation		

## Probability of failure

MTTF 228 a

## Environmental Product Compliance

RoHS Compliance Status Compliant  
 REACH SVHC Lead 7439-92-1

## Rated data UL

Certificate No. (cURus) E360862

## Control side

Rated control voltage	8...30 V DC / 10...30 V AC	Nominal control current	15 mA at 8.5 V DC, 18 mA at 10 V AC/DC, 50 mA at 24 V AC/DC, 65 mA at 30 V AC/DC
Power rating	0.1...2 W	Status indicator	Green LED
Protective circuit	RC element, Varistor	Input frequency	10 Hz

## Load side

Rated switching voltage	24...520 V AC	Continuous current	20 A @ 55 °C; 12 A (AC 53)
Rated switching current	20 A @ 55 °C	Load category	AC 53: 3 x 12 A
Inrush current	550 A	Pulse load, max. current	300 A (10 ms), non-recurrent
Load limit integral (I <sup>2</sup> t) <10 ms	1500 A <sup>2</sup> s	Switch-on delay	30 ms
Switch-off delay	30 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, RC element
Contact type	3 NO contact (Triac (zero-cross switch))	Output voltage frequency range	50 / 60 Hz

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## Technical data

max. switching frequency (AC control voltage)	10 Hz	max. switching frequency (DC control voltage)	10 Hz
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### General data

Version	3-phase with heat sink mounted	Mounting rail	TS 35
Colour	black		

### Insulation coordination

Pollution severity	2	Surge voltage category	III
Dielectric strength for control side - load side	4 kVeff	Diaelectric strength of load side - housing	3.3 kVeff
Impulse withstand voltage	4 kV (1.2/50 µs)	Protection degree	IP20

### Further details of approvals / standards

Certificate No. (cURus)	E360862
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### Connection data (control side)

Nom. rated connection clamping range (control side)	1.5 mm <sup>2</sup>	Min. rated connection clamping range (control side)	0.75 mm <sup>2</sup>
Max. rated connection clamping range (control side)	2.5 mm <sup>2</sup>	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)

Nom. rated connection clamping range (load side)	10 mm <sup>2</sup>	Min. rated connection clamping range (load side)	1.5 mm <sup>2</sup>
Max. rated connection clamping range (load side)	10 mm <sup>2</sup>	Min. tightening torque (load side)	2 Nm
Max. tightening torque (load side)	3 Nm	Blade size (load side)	Gr. PZ2

### Connection data

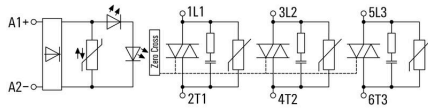
Wire connection method	Screw connection
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### Classifications

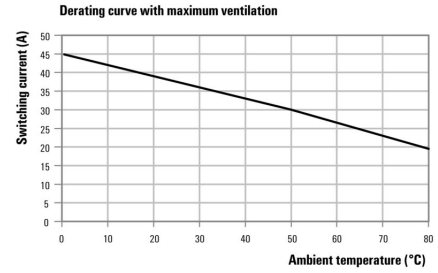
ETIM 8.0	EC002055	ETIM 9.0	EC002055
ETIM 10.0	EC002055	ECLASS 14.0	27-37-10-14
ECLASS 15.0	27-37-10-14		

**Drawings**

**Wiring diagram**

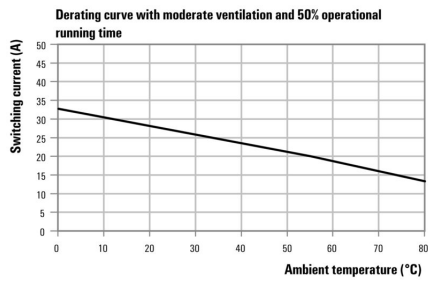


**Graph**



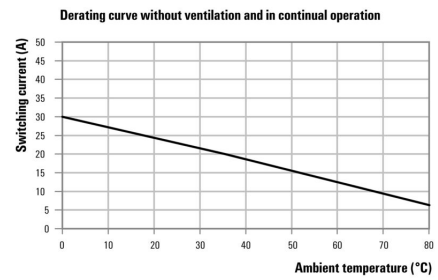
DC load limit curve Low ventilation

**Graph**



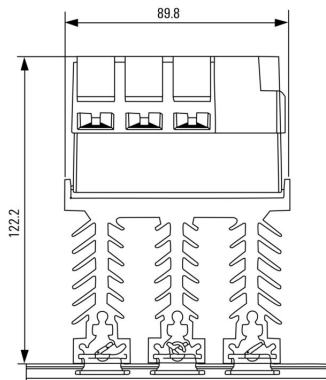
DC load limit curve

**Graph**



DC load limit curve

**Dimensional drawing**



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## Accessories

### Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

#### General ordering data

Type	SDS 0.5X3.0X80	Version
Order No.	<a href="#">2749330000</a>	Screwdriver, Blade width (B): 3 mm, Blade length: 80 mm, Blade thickness (A): 0.5 mm
GTIN (EAN)	4050118895551	
Qty.	1 ST	

### Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

#### General ordering data

Type	SDK PZ2 X 100	Version
Order No.	<a href="#">2749450000</a>	Screwdriver, Blade width (B): 6 mm, 100 mm, Blade thickness (A): 2
GTIN (EAN)	4050118895674	
Qty.	1 ST	

### Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

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## Accessories

### General ordering data

Type	ESG 9/20 MC NE GE	Version
Order No.	<a href="#">1766160000</a>	ESG, Device markers x 20 mm, PA 66, Colour: yellow, pluggable
GTIN (EAN)	4008190098360	
Qty.	200 ST	
Type	ESG 9/20 MC NE WS	Version
Order No.	<a href="#">1609940000</a>	ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable
GTIN (EAN)	4008190203528	
Qty.	200 ST	
Type	ESG 9/20 MC NE TK	Version
Order No.	<a href="#">1866690000</a>	ESG, Device markers x 20 mm, PA 66, Colour: Turquoise, pluggable
GTIN (EAN)	4032248436965	
Qty.	200 ST	

### End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

Type	MEW 35/1	Version
Order No.	<a href="#">1805610000</a>	End bracket, grey, TS 35, None, metal, Width: 12.5 mm, 100 °C
GTIN (EAN)	4032248287017	
Qty.	10 ST	

### ESG 6/17



Guaranteed long service life: ESG  
 The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant. Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

### General ordering data

Type	ESG 6/17 MM WS	Version
Order No.	<a href="#">2005100000</a>	ESG, Device markers, 6 x 17 mm, white
GTIN (EAN)	4050118390728	
Qty.	3000 ST	

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## Accessories

### ESG 6/15



#### Guaranteed long service life: ESG

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

#### Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

### General ordering data

Type	ESG 6/15 MM WS	Version	
Order No.	<a href="#">2619940000</a>	ESG, Device markers, 6 x 15 mm, white	
GTIN (EAN)	4050118626148		
Qty.	3000 ST		