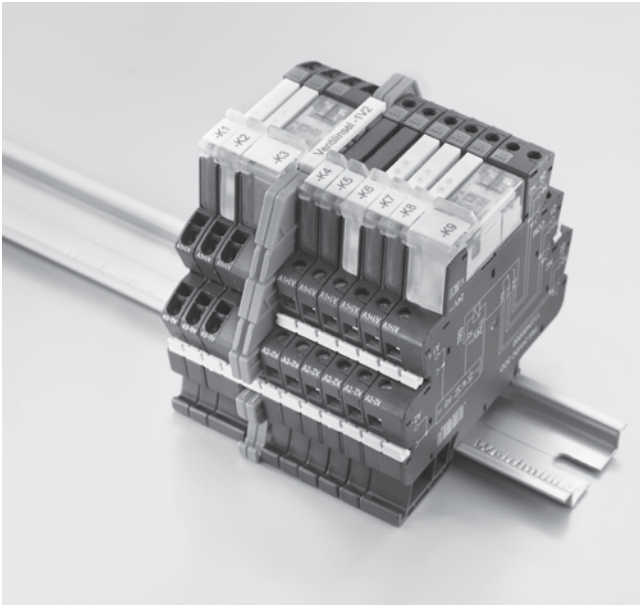


## Datasheet • Electronic TERMSERIES

Relays and Solid-State Relays

**NEW**



Weidmüller's TERMSERIES offers innovative pluggable electromechanical and solid-state relays equipped with one or two changeover contacts housed in a slim 6.4 mm or 12.8 mm design with matching profiles that can be combined as required in the customer's application and reliably switch loads of up to 8A at 250V.

Depending on the application customers can choose between products with a fixed voltage input or Weidmüller's unique multi-voltage input which allows conditioning signals from 24V up to 230V AC/DC with just one module.

A distinctive status display is available through integrated fiber-optic technology that completely illuminates the ejector. The ejector also ensures the safe removal of the switching element.

The versions with single and dual changeover contacts as well as screw clamp and tension clamp terminals have the same profile and can be jumpered with each other with easy to use cross connectors. Well thought out accessories such as isolation plates used to visibly group signals, electrically isolate two modules for up to 400V, or to add labels for enhanced marking options make this product family a well rounded offering.

- Slim design with 6.4 mm or 12.8 mm width
- 1 CO and 2 CO contact versions
- Screw clamp and tension clamp technology
- Input voltages from 5 up to 230V
- Unique multi-voltage input version for 24V-230V AC/DC
- Distinctive fiber-optic illuminated status display
- 5 cross connection levels
- Clear marking
- Pluggable relays and SSRs
- Wide range of accessories
- CE and cULus approved

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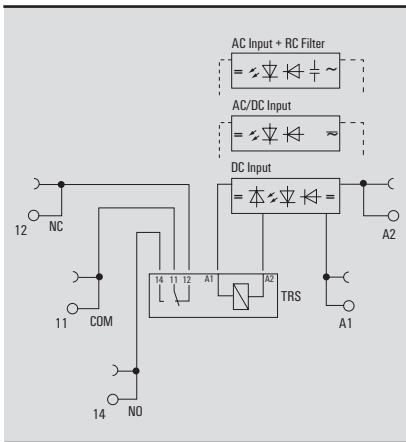
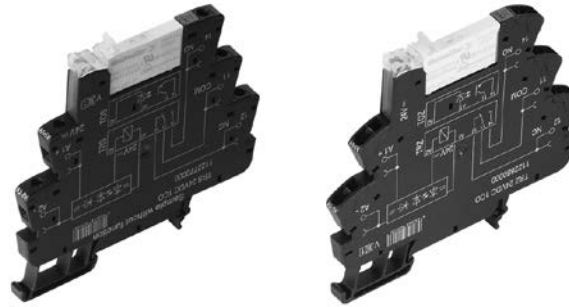
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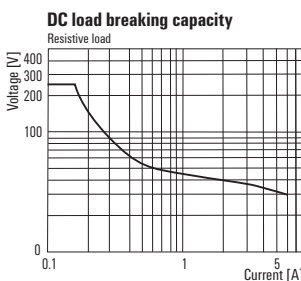
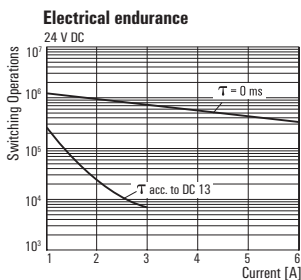
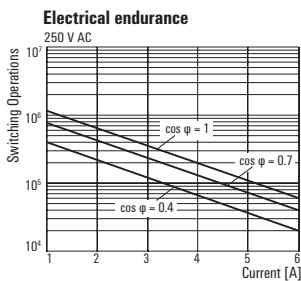
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**1 CO contact**  
**AC/DC/UC coil**

- Space saving, just 6.4 mm modular width
- AgNi contact with or without gold plating
- Screw and tension clamp connection
- 5 cross connection levels
- Multi-voltage input: 24...230 VUC in one module



**Applications**



**Technical data**

Output	1 CO	1 CO Au
Max. switching voltage, AC / Continuous current	250 V / 6 A	
Min. switching power	100 mA / 5 V	1 mA / 1 V
Contact material	AgNi	AgNi 5µm Au
Mechanical service life	20 x 10 <sup>6</sup> switching cycles	
Max. switching frequency at rated load	0.1 Hz	
<b>Rated data</b>		
Status indicator	Green LED	
Reverse polarity protection	Yes	
Ambient temperature (operational)	-40 °C...+60 °C	
Storage temperature	-40 °C...+85 °C	
Humidity	5...95 % rel. humidity T <sub>0</sub> = 40 °C, no condensation	
Approvals	CE, GL, cULus	
<b>Insulation coordination (EN 50 178)</b>		
Rated voltage	300 V	
Impulse withstand voltage	6 kV (1.2/50 µs)	
Clearance and creepage distances for control side - load side	≥ 5.5 mm	
Surge voltage category	III	
Pollution severity	2	

Dimensions	Screw connection	Tension clamp connection
Clamping range (nominal / min. / max.)	mm <sup>2</sup> 1.5 / 0.14 / 1.5	1.5 / 0.14 / 1.5
Length x width x height	mm 88 / 6.4 / 90	88 / 6.4 / 90
<b>Notes</b>	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page.	

**Ordering data**

Input	24 V - 230 V UC
Rated control voltage	24...230 V UC ±10 %
Rated current AC	4 mA @ 230 V AC ±10 %, 28 mA @ 24 V AC ±10 %
Rated current DC	22 mA @ 24 V DC ±10 %
Power rating	530 mW @ 24 V DC, 930 mVA @ 230 V AC
AC Response/dropout Volt	11 V / 6 V
DC Response/dropout Volt	11 V / 5 V
AC pickup/dropout current	
DC pickup/dropout current	
<b>Output</b>	
Switch-on delay	< 22 ms
Switch-off delay	< 100 ms

Ordering data	Type	Part No.
Screw connection	TRS 24-230VUC 1CO	<b>1122850000</b>
Tension clamp connection	TRZ 24-230VUC 1CO	<b>1122970000</b>
<b>Notes</b>	Spare relay, Type: RSS113024, <b>Part No.:</b> 406012000	

Ordering data	Type	Part No.
Screw connection	TRS 24-230VUC 1CO AU	<b>1123090000</b>
Hard Gold-plated contact		
Tension clamp connection	TRZ 24-230VUC 1CO AU	<b>1123210000</b>
Hard Gold-plated contact		
<b>Notes</b>	Spare relay, Type: RSS112024, <b>Part No.:</b> 4061590000	

## 1 CO contact AC/DC/UC coil

### Ordering data

Input data		5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage		5 V DC $\pm 20\%$	5 V DC $\pm 20\%$	24 V DC $\pm 20\%$	24 V UC $\pm 10\%$	48 V UC $\pm 10\%$
Rated current AC					10.1 mA	8 mA
Rated current DC		35.8 mA	35.8 mA	10 mA	6.4 mA	7 mA
Power rating		200 mW	200 mW	240 mW	270 mVA / 154 mW	240 mVA / 192 mW
AC Response/dropout Volt					16.6 V / 5 V	29 V / 10 V
DC Response/dropout Volt		3.3 V / 1 V	3.3 V / 1 V	16.6 V / 5 V	16.6 V / 5 V	29 V / 10 V
AC pickup/dropout current					4 mA / 1 mA	4 mA // 1.3 mA
DC pickup/dropout current		21.6 mA / 8 mA	21.6 mA / 8 mA	7 mA / 2 mA	4 mA / 1.2 mA	4 mA / 1.2 mA
Free-wheel diode		Yes	Yes	Yes	No	No
Output						
Switch-on delay		< 7 ms	< 7 ms	< 6 ms	< 4 ms	< 8 ms
Switch-off delay		< 4 ms	< 8 ms	< 7 ms	< 1.2 ms	< 4 ms
Ordering data						
Screw connection	Type	TRS 5VDC 1CO	TRS 12VDC 1CO	TRS 24VDC 1CO	TRS 24VUC 1CO	TRS 48VUC 1CO
	Part No.	<b>1122740000</b>	<b>1122750000</b>	<b>1122770000</b>	<b>1122780000</b>	<b>1122790000</b>
Tension clamp connection	Type	TRZ 5VDC 1CO	TRZ 12VDC 1CO	TRZ 24VDC 1CO	TRZ 24VUC 1CO	TRZ 48VUC 1CO
	Part No.	<b>1122860000</b>	<b>1122870000</b>	<b>1122880000</b>	<b>1122890000</b>	<b>1122900000</b>
Notes		Spare relay Type: RSS113005 Part No.: <b>4061580000</b>	Spare relay Type: RSS113012 Part No.: <b>4061610000</b>	Spare relay Type: RSS113024 Part No.: <b>4060120000</b>	Spare relay Type: RSS113024 Part No.: <b>4060120000</b>	Spare relay Type: RSS113024 Part No.: <b>4060120000</b>
Ordering data						
Screw connection	Type	TRS 5VDC 1CO AU	TRS 12VDC 1CO AU	TRS 24VDC 1CO AU	TRS 24VUC 1CO AU	TRS 48VUC 1CO AU
Hard Gold-plated contact	Part No.	<b>1122980000</b>	<b>1122990000</b>	<b>1123000000</b>	<b>1123010000</b>	<b>1123020000</b>
Tension clamp connection	Type	TRZ 5VDC 1CO AU	TRZ 12VDC 1CO AU	TRZ 24VDC 1CO AU	TRZ 24VUC 1CO AU	TRZ 48VUC 1CO AU
Hard Gold-plated contact	Part No.	<b>1123100000</b>	<b>1123110000</b>	<b>1123120000</b>	<b>1123130000</b>	<b>1123140000</b>
Notes		Spare relay Type: RSS112005 Part No.: <b>1174540000</b>	Spare relay Type: RSS112012 Part No.: <b>1220670000</b>	Spare relay Type: RSS112024 Part No.: <b>4061590000</b>	Spare relay Type: RSS112024 Part No.: <b>4061590000</b>	Spare relay Type: RSS112024 Part No.: <b>4061590000</b>

### Ordering data

Input data		60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Rated control voltage		60 V UC $\pm 10\%$	120 V UC $\pm 10\%$	230 V UC $\pm 10\%$	120 V AC $\pm 10\%$	230 V AC $\pm 10\%$
Rated current AC		6.1 mA	4 mA	3.5 mA	7 mA	10.1 mA
Rated current DC		3.3 mA	3.5 mA	2.9 mA		
Power rating		360 mW	0.48 VA, 420 mW	0.8 VA, 700 mW	0.84 VA	2.3 VA
AC Response/dropout Volt		35 V / 11 V	79 V / 60 V	159 V / 100 V	79 V / 60 V	145 V / 90 V
DC Response/dropout Volt		40 V / 10 V		159 V / 99 V		
AC pickup/dropout current			4 mA / 2.5 mA	2.2 mA / 1.3 mA	4 mA / 2.5 mA	9.13 mA / 4.78 mA
DC pickup/dropout current				1.7 mA / 0.7 mA		
Free-wheel diode		No	No	No	No	No
Output						
Switch-on delay		< 6 ms	< 8 ms	< 22 ms	< 5.3 ms	< 22 ms
Switch-off delay		< 6.5 ms	< 7 ms	< 30 ms	< 4 ms	< 30 ms
Ordering data						
Screw connection	Type	TRS 60VUC 1CO	TRS 120VUC 1CO	TRS 230VUC 1CO	TRS 120VAC RC 1CO	TRS 230VAC RC 1CO
	Part No.	<b>1122800000</b>	<b>1122810000</b>	<b>1122820000</b>	<b>1122830000</b>	<b>1122840000</b>
Tension clamp connection	Type	TRZ 60VUC 1CO	TRZ 120VUC 1CO	TRZ 230VUC 1CO	TRZ 120VAC RC 1CO	TRZ 230VAC RC 1CO
	Part No.	<b>1122910000</b>	<b>1122920000</b>	<b>1122930000</b>	<b>1122940000</b>	<b>1122950000</b>
Notes		Spare relay Type: RSS113060 Part No.: <b>4061630000</b>	Spare relay Type: RSS113060 Part No.: <b>4061630000</b>	Spare relay Type: RSS113060 Part No.: <b>4061630000</b>	Spare relay Type: RSS113060 Part No.: <b>4061630000</b>	Spare relay Type: RSS113060 Part No.: <b>4061630000</b>
Ordering data						
Screw connection	Type	TRS 60VUC 1CO AU	TRS 120VUC 1CO AU	TRS 230VUC 1CO AU	TRS 120VAC RC 1CO AU	TRS 230VAC RC 1CO AU
Hard Gold-plated contact	Part No.	<b>1123030000</b>	<b>1123040000</b>	<b>1123050000</b>	<b>1123070000</b>	<b>1123080000</b>
Tension clamp connection	Type	TRZ 60VUC 1CO AU	TRZ 120VUC 1CO AU	TRZ 230VUC 1CO AU	TRZ 120VAC RC 1CO AU	TRZ 230VAC RC 1CO AU
Hard Gold-plated contact	Part No.	<b>1123150000</b>	<b>1123170000</b>	<b>1123180000</b>	<b>1123190000</b>	<b>1123200000</b>
Notes		Spare relay Type: RSS112060 Part No.: <b>4061600000</b>	Spare relay Type: RSS112060 Part No.: <b>4061600000</b>	Spare relay Type: RSS112060 Part No.: <b>4061600000</b>	Spare relay Type: RSS112060 Part No.: <b>4061600000</b>	Spare relay Type: RSS112060 Part No.: <b>4061600000</b>