

# TERMSERIES

The All-rounder

Electronics



# TERMSERIES – The All-rounder

## Relays and solid-state relays for all purposes

Relay modules are universal isolating elements for use in electrical automation. There are always different requirements for them because of this versatility. With the development of our TERMSERIES relay modules and solid-state relays, we have used these practical requirements as our highest benchmark.

Depending on the application, you can choose the product with the fixed-voltage inputs or with the multi-voltage input, which is currently a unique feature in this thin 6 mm terminal block format. Our practical design is reflected in the high-quality design without any sharp edges, a large number of variants with screw and tension-clamp connections, and a clear status display even in difficult viewing conditions. The product shape allows it to be installed in many different positions. Unlimited cross-connectivity, even across partition plates, assures versatile usage for your application regardless of how unusual your needs are.

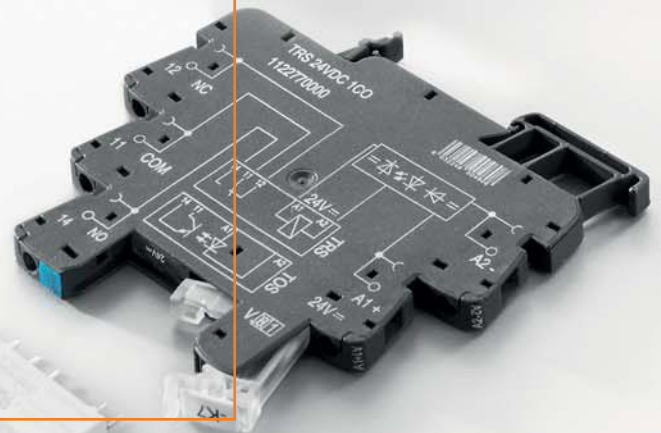
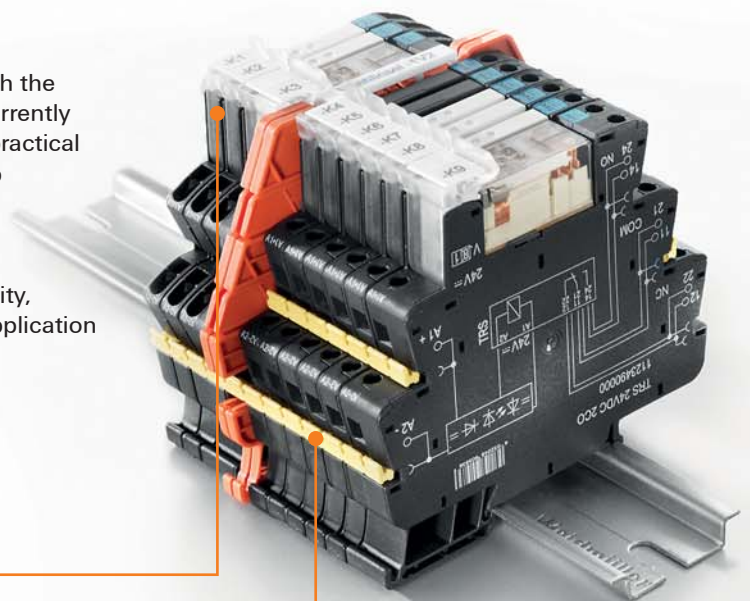
### Always the best overview

A distinct status display is available through a LED that completely illuminates the ejector. This ensures the safe removal of the switching element.



### Well-designed handling of cross-connections

An exceptionally simple shortening of the cross-connections to the necessary length allows indentations between the poles. An additional bar supports the handling and mounting without having to grasp the contacts.



### Clear marking

The unique legibility of all labelling is assured in different mounting positions and this, together with different voltage variant colour identification, reduces the danger of a false connection.



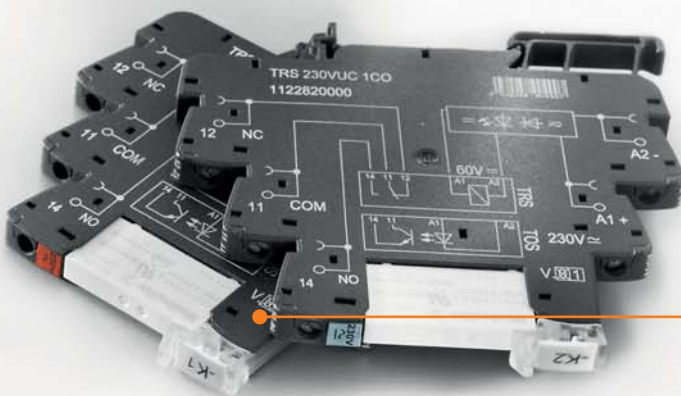
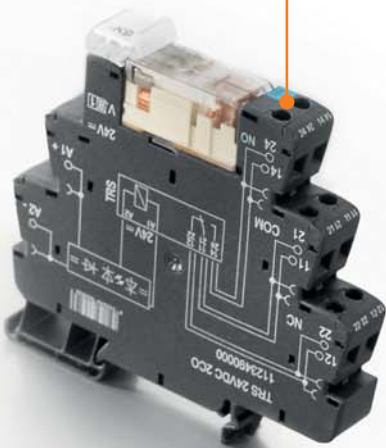
### Unique multi-voltage input

Whether retro-fitting machines or in plant construction: with the multi-voltage input from 24 V to 230 V UC, the input signals are always optimally matched to your automation application.



### Any desired combinations

The variants with single or dual CO-contacts have the same shape and can be cross-connected with each other.



### Custom-fit cross-connection

These cross-connectors are especially impressive because of their ease of use, good visibility and universal interconnectivity – also across partition plates. Even the screw and tension-clamp variants can be cross-connected to each other.



### Partition plates for safety and clarity

The partition plate is a unique accessory because of its many different uses. It is used to group signals together visibly, to electrically isolate assemblies, or to add labelling for a better overview.



Further information or samples you can order here:

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

# Application

## TERMSERIES in the field

### Just in case: Multi-voltage input

You build or renew systems, but do not know the control voltages of the actuators in the field? TERMSERIES with multi-voltage input leaves all doors open. You can ship your cabinet fully tested and safe

time-consuming and costly modifications during commissioning. The TERMSERIES with multi-voltage input gives your machine a universal coupling level - without any surprises.



### Non-reactive switch-off

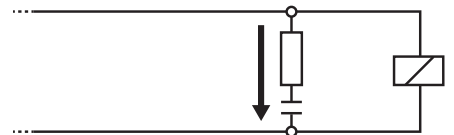
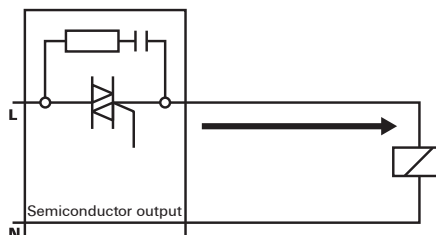
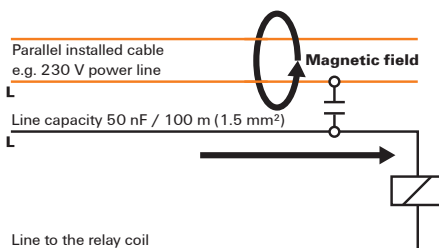
Interference on control lines of relays (e.g. by parallel power lines) produce noise voltage.

When the power of the noise voltage is above of the release voltage of the relay, the relay does not de-energise safe.

In protective circuits of AC output cards leakage currents can occur in the off state.

The relay does not de-energise safe when the leakage current has sufficient power.

Great events often come from little causes:  
The variants with 120 / 230 VAC input have a standard built-in RC-filter. This provides a compensation of noise voltage and leakage currents by an additional current consumption.



Inductive or capacitive couplings:  
Noise voltage > release voltage  
= Relay does not de-energise

Output cards of control systems and control modules:  
Leakage current > Relay holding current  
= Relay does not de-energise

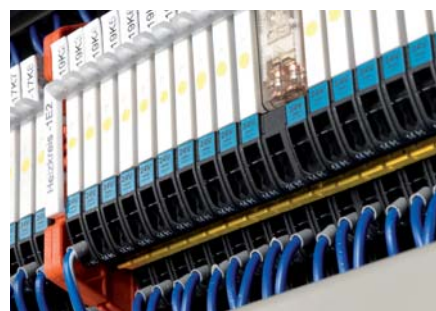
TERMSERIES relays reliably de-energise – Always!

# Accessories

## Expand your possibilities

### Custom-fit cross-connections – ZQV1,5/6,4

- The models with one or two changeover have the same shape and can be cross-connected to each other.
- An additional bar supports the handling and mounting without having to grasp the contacts.
- An exceptionally simple shortening of the cross-connections to the necessary length allows indentations between the poles.
- 10/02/19-pole for the one changeover version
- 10-pole for the two changeover version
- Rated current 17 A



### Partition plates for safety and clarity

- Partition plates isolate between two modules by increasing the clearance and creepage distances of up to 400 V.
- Partition plates group signals together visibly
- Two partition plates ensure optimal labeling with markers WAP5 or WS10/5
- Two partition plates allow a continuous cross-connection
- Indentations for individual breaking out the cross-connection channels



#### Accessories


#### Cross Connection

Supply Terminal	Supply Terminal	Isolation Plate	6 mm, 2-pole	6 mm, 10-pole	6 mm, 19-pole	12 mm, 10-pole
TXS SUPPLY 1240780000	TXZ SUPPLY 1240790000	TW TXS/TXZ R3.2 1240800000	ZQV 1.5N/R6.4/2 GE 1193670000	ZQV 1.5N/R6.4/10 GE 1193680000	ZQV 1.5N/R6.4/19 GE 1193690000	ZQV 1.5N/R12.8/10 GE 1193700000


# Selection chart

## Screw connection

### Relay – 6 mm

Output	1 Change over 		
	AgNi	AgNi Au	Empty Socket
<b>Input</b>			
5 VDC	TRS 5VDC 1CO <b>1122740000</b>	TRS 5VDC 1CO AU <b>1122980000</b>	TRS 5VDC 1CO EMPTY <b>1123220000</b>
12 VDC	TRS 12VDC 1CO <b>1122750000</b>	TRS 12VDC 1CO AU <b>1122990000</b>	TRS 12VDC 1CO EMPTY <b>1123230000</b>
24 VDC	TRS 24VDC 1CO <b>1122770000</b>	TRS 24VDC 1CO AU <b>1123000000</b>	TRS 24VDC 1CO EMPTY <b>1123240000</b>
24 VUC	TRS 24VUC 1CO <b>1122780000</b>	TRS 24VUC 1CO AU <b>1123010000</b>	TRS 24VUC 1CO EMPTY <b>1123250000</b>
48 VUC	TRS 48VUC 1CO <b>1122790000</b>	TRS 48VUC 1CO AU <b>1123020000</b>	TRS 48VUC 1CO EMPTY <b>1123270000</b>
60 VUC	TRS 60VUC 1CO <b>1122800000</b>	TRS 60VUC 1CO AU <b>1123030000</b>	TRS 60VUC 1CO EMPTY <b>1123280000</b>
120 VUC	TRS 120VUC 1CO <b>1122810000</b>	TRS 120VUC 1CO AU <b>1123040000</b>	TRS 120VUC 1CO EMPTY <b>1123290000</b>
230 VUC	TRS 230VUC 1CO <b>1122820000</b>	TRS 230VUC 1CO AU <b>1123050000</b>	TRS 230VUC 1CO EMPTY <b>1123300000</b>
120 VAC RC	TRS 120VAC RC 1CO <b>1122830000</b>	TRS 120VAC RC 1CO AU <b>1123070000</b>	TRS 120VAC RC 1CO EM. <b>1123310000</b>
230 VAC RC	TRS 230VAC RC 1CO <b>1122840000</b>	TRS 230VAC RC 1CO AU <b>1123080000</b>	TRS 230VAC RC 1CO EM. <b>1123320000</b>
24–230 VUC	TRS 24-230VUC 1CO <b>1122850000</b>	TRS 24-230VUC 1CO AU <b>1123090000</b>	TRS 24-230VUC 1CO EM. <b>1123330000</b>

### Relay – 12 mm

Output	2 Change over 		
	AgNi	AgNi Au	Empty Socket
5 VDC	TRS 5VDC 2CO <b>1123470000</b>	TRS 5VDC 2CO AU <b>1123710000</b>	TRS 5VDC 2CO EMPTY <b>1123950000</b>
12 VDC	TRS 12VDC 2CO <b>1123480000</b>	TRS 12VDC 2CO AU <b>1123720000</b>	TRS 12VDC 2CO EMPTY <b>1123970000</b>
24 VDC	TRS 24VDC 2CO <b>1123490000</b>	TRS 24VDC 2CO AU <b>1123730000</b>	TRS 24VDC 2CO EMPTY <b>1123980000</b>
24 VUC	TRS 24VUC 2CO <b>1123500000</b>	TRS 24VUC 2CO AU <b>1123740000</b>	TRS 24VUC 2CO EMPTY <b>1123990000</b>
48 VUC	TRS 48VUC 2CO <b>1123510000</b>	TRS 48VUC 2CO AU <b>1123750000</b>	TRS 48VUC 2CO EMPTY <b>1124000000</b>
60 VUC	TRS 60VUC 2CO <b>1123520000</b>	TRS 60VUC 2CO AU <b>1123770000</b>	TRS 60VUC 2CO EMPTY <b>1124010000</b>
120 VUC	TRS 120VUC 2CO <b>1123530000</b>	TRS 120VUC RC 2CO AU <b>1123780000</b>	TRS 120VUC 2CO EMPTY <b>1124020000</b>
230 VUC	TRS 230VUC 2CO <b>1123540000</b>	TRS 230VUC RC 2CO AU <b>1123790000</b>	TRS 230VUC 2CO EMPTY <b>1124030000</b>
120 VAC RC	TRS 120VAC RC 2CO <b>1123550000</b>	TRS 120VAC RC 2CO AU <b>1123800000</b>	TRS 120VAC RC 2CO EM. <b>1124040000</b>
230 VAC RC	TRS 230VAC RC 2CO <b>1123570000</b>	TRS 230VAC RC 2CO AU <b>1123810000</b>	TRS 230VAC RC 2CO EM. <b>1124050000</b>
24–230 VUC	TRS 24-230VUC 2CO <b>1123580000</b>	TRS 24-230VUC 2CO AU <b>1123820000</b>	TRS 24-230VUC 2CO EM. <b>1124070000</b>

### Solid-State Relay – 6 mm

Output	5 – 48 VDC	5 – 48 VDC	24 – 230 VAC
	100 mA	2 A	1 A
<b>Input</b>			
5 VDC	TOS 5VDC 48VDC0,1A <b>1126920000</b>	TOS 5VDC 24VDC2A <b>1127140000</b>	TOS 5VDC 230VAC1A <b>1127390000</b>
12 VDC	TOS 12VDC 48VDC0,1A <b>1126930000</b>	TOS 12VDC 24VDC2A <b>1127150000</b>	TOS 12VDC 230VAC1A <b>1127400000</b>
24 VDC	TOS 24VDC 48VDC0,1A <b>1126940000</b>	TOS 24VDC 24VDC2A <b>1127170000</b>	TOS 24VDC 230VAC1A <b>1127410000</b>
24 VUC	TOS 24VUC 48VDC0,1A <b>1126950000</b>	TOS 24VUC 24VDC2A <b>1127180000</b>	TOS 24VUC 230VAC1A <b>1127420000</b>
48 VUC	TOS 48VUC 48VDC0,1A <b>1126960000</b>	TOS 48VUC 24VDC2A <b>1127190000</b>	TOS 48VUC 230VAC1A <b>1127430000</b>
60 VUC	TOS 60VUC 48VDC0,1A <b>1126970000</b>	TOS 60VUC 24VDC2A <b>1127200000</b>	TOS 60VUC 230VAC1A <b>1127440000</b>
120 VUC	TOS 120VUC 48VDC0,1A <b>1126980000</b>	TOS 120VUC 24VDC2A <b>1127210000</b>	TOS 120VUC 230VAC1A <b>1127450000</b>
230 VUC	TOS 230VUC 48VDC0,1A <b>1126990000</b>	TOS 230VUC 24VDC2A <b>1127220000</b>	TOS 230VUC 230VAC1A <b>1127470000</b>
120 VAC RC	TOS 120VAC RC 48VDC0,1A <b>1127000000</b>	TOS 120VAC RC 24VDC2A <b>1127230000</b>	TOS 120VAC RC 230VAC1A <b>1127480000</b>
230 VAC RC	TOS 230VAC RC 48VDC0,1A <b>1127010000</b>	TOS 230VAC RC 24VDC2A <b>1127240000</b>	TOS 230VAC RC 230VAC1A <b>1127490000</b>
24–230 VUC	TOS 24-230VUC 48VDC0,1A <b>1127020000</b>	TOS 24-230VUC 24VDC2A <b>1127250000</b>	TOS 24-230VUC 230VAC1A <b>1127500000</b>


### Solid-State Relay – 12 mm

Output	5 – 48 VDC	24 – 230 VAC	
	3,5 A	1 A	Empty Socket
24 VDC	TOS 24VDC 24VDC3,5A <b>1127630000</b>	TOS 24VDC 230VAC1A <b>1127680000</b>	TOS 24VDC EMPTY <b>1127720000</b>
24–230 VUC	TOS 24-230VUC 24VDC3,5A <b>1127640000</b>	TOS 24-230VUC 230VAC3A <b>1127690000</b>	TOS 24-230VUC EMPTY <b>1127730000</b>


# Selection chart

## Tension clamp connection

### Relay – 6 mm

Output	1 Change over 		
	AgNi	AgNi Au	Empty Socket
<b>Input</b>			
5 VDC	TRZ 5VDC 1CO <b>1122860000</b>	TRZ 5VDC 1CO AU <b>1123100000</b>	TRZ 5VDC 1CO EMPTY <b>1123340000</b>
12 VDC	TRZ 12VDC 1CO <b>1122870000</b>	TRZ 12VDC 1CO AU <b>1123110000</b>	TRZ 12VDC 1CO EMPTY <b>1123350000</b>
24 VDC	TRZ 24VDC 1CO <b>1122880000</b>	TRZ 24VDC 1CO AU <b>1123120000</b>	TRZ 24VDC 1CO EMPTY <b>1123370000</b>
24 VUC	TRZ 24VUC 1CO <b>1122890000</b>	TRZ 24VUC 1CO AU <b>1123130000</b>	TRZ 24VUC 1CO EMPTY <b>1123380000</b>
48 VUC	TRZ 48VUC 1CO <b>1122900000</b>	TRZ 48VUC 1CO AU <b>1123140000</b>	TRZ 48VUC 1CO EMPTY <b>1123390000</b>
60 VUC	TRZ 60VUC 1CO <b>1122910000</b>	TRZ 60VUC 1CO AU <b>1123150000</b>	TRZ 60VUC 1CO EMPTY <b>1123400000</b>
120 VUC	TRZ 120VUC 1CO <b>1122920000</b>	TRZ 120VUC 1CO AU <b>1123190000</b>	TRZ 120VUC 1CO EMPTY <b>1123410000</b>
230 VUC	TRZ 230VUC 1CO <b>1122930000</b>	TRZ 230VUC 1CO AU <b>1123180000</b>	TRZ 230VUC 1CO EMPTY <b>1123420000</b>
120 VAC RC	TRZ 120VAC RC 1CO <b>1122940000</b>	TRZ 120VAC RC 1CO AU <b>1123190000</b>	TRZ 120VAC RC 1CO EM. <b>1123430000</b>
230 VAC RC	TRZ 230VAC RC 1CO <b>1122950000</b>	TRZ 230VAC RC 1CO AU <b>1123200000</b>	TRZ 230VAC RC 1CO EM. <b>1123440000</b>
24–230 VUC	TRZ 24-230VUC 1CO <b>1122970000</b>	TRZ 24-230VUC 1CO AU <b>1123210000</b>	TRZ 24-230VUC 1CO EM. <b>1123450000</b>

### Relay – 12 mm

Output	2 Change over 		
	AgNi	AgNi Au	Empty Socket
<b>Input</b>			
5 VDC	TRZ 5VDC 2CO <b>1123590000</b>	TRZ 5VDC 2CO AU <b>1123830000</b>	TRZ 5VDC 2CO EMPTY <b>1124080000</b>
12 VDC	TRZ 12VDC 2CO <b>1123600000</b>	TRZ 12VDC 2CO AU <b>1123840000</b>	TRZ 12VDC 2CO EMPTY <b>1124090000</b>
24 VDC	TRZ 24VDC 2CO <b>1123610000</b>	TRZ 24VDC 2CO AU <b>1123850000</b>	TRZ 24VDC 2CO EMPTY <b>1124100000</b>
24 VUC	TRZ 24VUC 2CO <b>1123620000</b>	TRZ 24VUC 2CO AU <b>1123870000</b>	TRZ 24VUC 2CO EMPTY <b>1124110000</b>
48 VUC	TRZ 48VUC 2CO <b>1123630000</b>	TRZ 48VUC 2CO AU <b>1123880000</b>	TRZ 48VUC 2CO EMPTY <b>1124120000</b>
60 VUC	TRZ 60VUC 2CO <b>1123640000</b>	TRZ 60VUC 2CO AU <b>1123890000</b>	TRZ 60VUC 2CO EMPTY <b>1124130000</b>
120 VUC	TRZ 120VUC 2CO <b>1123650000</b>	TRZ 120VUC 2CO AU <b>1123900000</b>	TRZ 120VUC 2CO EMPTY <b>1124140000</b>
230 VUC	TRZ 230VUC 2CO <b>1123670000</b>	TRZ 230VUC 2CO AU <b>1123910000</b>	TRZ 230VUC 2CO EMPTY <b>1124150000</b>
120 VAC RC	TRZ 120VAC RC 2CO <b>1123680000</b>	TRZ 120VAC RC 2CO AU <b>1123920000</b>	TRZ 120VAC RC 2CO EM. <b>1124170000</b>
230 VAC RC	TRZ 230VAC RC 2CO <b>1123690000</b>	TRZ 230VAC RC 2CO AU <b>1123930000</b>	TRZ 230VAC RC 2CO EM. <b>1124180000</b>
24–230 VUC	TRZ 24-230VUC 2CO <b>1123700000</b>	TRZ 24-230VUC 2CO AU <b>1123940000</b>	TRZ 24-230VUC 2CO EM. <b>1124190000</b>

### Solid-State Relay – 6 mm

Output	5 - 48 VDC	5 - 48 VDC	24 - 230 VAC
	100 mA	2 A	1 A
<b>Input</b>			
5 VDC	TOZ 5VDC 48VDC0,1A <b>1127030000</b>	TOZ 5VDC 24VDC2A <b>1127270000</b>	TOZ 5VDC 230VAC1A <b>1127510000</b>
12 VDC	TOZ 12VDC 48VDC0,1A <b>1127040000</b>	TOZ 12VDC 24VDC2A <b>1127280000</b>	TOZ 12VDC 230VAC1A <b>1127520000</b>
24 VDC	TOZ 24VDC 48VDC0,1A <b>1127050000</b>	TOZ 24VDC 24VDC2A <b>1127290000</b>	TOZ 24VDC 230VAC1A <b>1127530000</b>
24 VUC	TOZ 24VUC 48VDC0,1A <b>1127060000</b>	TOZ 24VUC 24VDC2A <b>1127300000</b>	TOZ 24VUC 230VAC1A <b>1127540000</b>
48 VUC	TOZ 48VUC 48VDC0,1A <b>1127070000</b>	TOZ 48VUC 24VDC2A <b>1127310000</b>	TOZ 48VUC 230VAC1A <b>1127550000</b>
60 VUC	TOZ 60VUC 48VDC0,1A <b>1127080000</b>	TOZ 60VUC 24VDC2A <b>1127320000</b>	TOZ 60VUC 230VAC1A <b>1127570000</b>
120 VUC	TOZ 120VUC 48VDC0,1A <b>1127090000</b>	TOZ 120VUC 24VDC2A <b>1127330000</b>	TOZ 120VUC 230VAC1A <b>1127580000</b>
230 VUC	TOZ 230VUC 48VDC0,1A <b>1127100000</b>	TOZ 230VUC 24VDC2A <b>1127340000</b>	TOZ 230VUC 230VAC1A <b>1127590000</b>
120 VAC RC	TOZ 120VAC RC 48VDC0,1A <b>1127110000</b>	TOZ 120VAC RC 24VDC2A <b>1127350000</b>	TOZ 120VAC RC 230VAC1A <b>1127600000</b>
230 VAC RC	TOZ 230VAC RC 48VDC0,1A <b>1127120000</b>	TOZ 230VAC RC 24VDC2A <b>1127370000</b>	TOZ 230VAC RC 230VAC1A <b>1127610000</b>
24–230 VUC	TOZ 24-230VUC 48VDC0,1A <b>1127130000</b>	TOZ 24-230VUC 24VDC2A <b>1127380000</b>	TOZ 24-230VUC 230VAC1A <b>1127620000</b>

### Solid-State Relay – 12 mm

Output	5 - 48 VDC	24 - 230 VAC	Empty Socket
	3,5 A	1 A	
<b>Input</b>			
TOZ 24VDC 24VDC3,5A <b>1127650000</b>	TOZ 24VDC 230VAC1A <b>1127700000</b>	TOZ 24VDC EMPTY <b>1127740000</b>	
TOZ 24-230VUC 24VDC3,5A <b>1127670000</b>	TOZ 24-230VUC 230VAC1A <b>1127710000</b>	TOZ 24-230VUC EMPTY <b>1127750000</b>	

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