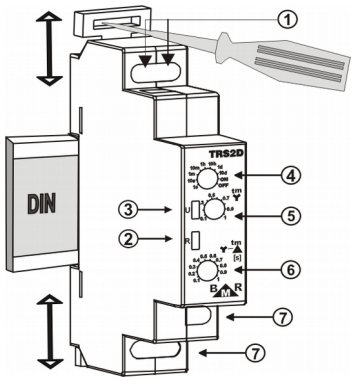
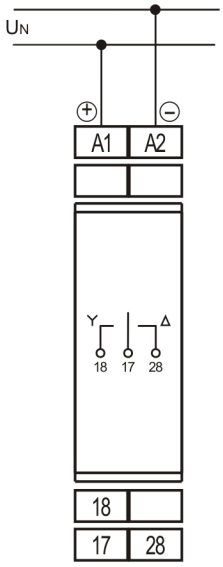
TRS2D

version 1.1

Single function time relay - delay start star/delta

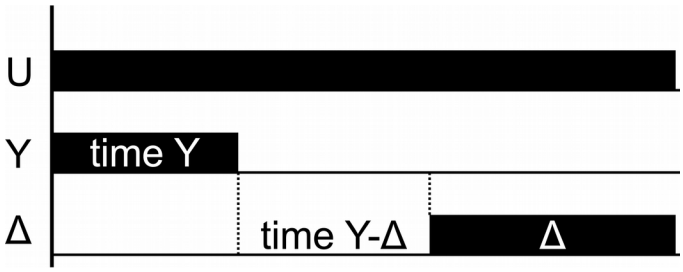
1. Device description

TRS2D is a time relay designed for delayed re-connection from star to delta connection during motor start up. It is possible to set time from 0.1 sec to 10 days for start connection and delay from 0.1 to 1 second for re-connection between star to delta. Relay has one output double-throw contact 8 A.

Terminal description	Terminal placement	Connection diagram
1 Supply voltage 2 Output indication 3 Supply voltage indication 4 1st time adjustment (time of star start) 5 Fine adjustment of 1st time 6 Fine adjustment of 2nd time (delay between connection to delta) 7 Outputs		

2. Function

Function - delayed re-connection from star to delta connection during motor start up



3. Technical features

Parameter	Value
Supply voltage	12 … 230 $V_{AC/DC}$ (+10%, -15%)
System frequency	50 Hz / 60 Hz
Supply terminals	A1, A2
Power consumption	max. 1.5 VA / 1.2 W
Supply indication	green LED
Timing indication	yellow LED blinking
Re-connection time	0.1 sec … 1 sec
Time pause scale	0.1 sec … 10 days
Output parameters	
Number and type of contacts	1x changeover contact
Rated operating voltage / current	250 V_{AC} / 8 A, 24 V_{DC} / 8 A
Maximum switched voltage	400 V_{AC} (5 A) / 150 V_{DC} (0.3 A)
Maximum switched power	2000 VA / 192 W
Trigger current	15 A
Maximum net harmonic distortion	less than 5%
Mechanical life	3 x 10^7 cycles
Electrical life	1 x 10^5 cycles (250 V_{AC}, 8 A)
Others	
Ambient temperature	-20 ... +55 °C
Storage temperature	-40 ... +70 °C
Working position	any
Mounting	IEC 60715 (DIN 35)
Protection degree	IP 20
Electrical strength	4 kV
Conductor rigid and flexible	0.2 … 2.5 mm^2
Weight	75 g
Dimensions	90 x 18 x 65 mm
Related standards	EN 61812-1, IEC 61010, IEC 61000

Note

For changing the time, it is not necessary to disconnect supply voltage.

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