

MINITIMER Star-Delta Timer MK 7853N



- According to IEC/EN 61812-1
- Time delay up to 100 s
- Repeat accuracy $< \pm 0.5 \%$
- Wire connection: also $2 \times 1.5 \text{ mm}^2$ stranded ferruled, or $2 \times 2.5 \text{ mm}^2$ solid DIN 46228-1/-2/-3/-4
- As option with pluggable terminal blocks for easy exchange of devices
 - with screw terminals
 - or with cage clamp terminals
- Width 22.5 mm

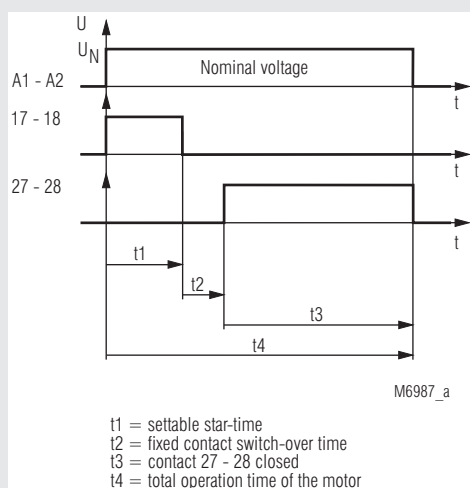
Product Description

The MK 7853N is a static star-delta-timer with 2 separate output relays. As soon as the operating voltage is applied, relay 1 will be energized and falls back after time delay. After elapse of the contact changeover time, the second relay switches on and remains in active position, as long as the star-delta-timer is energized.

Approvals and Markings



Function Diagram



Applications

Star-delta-starting circuit for squirrel cage motors

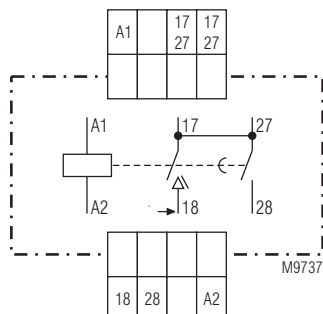
Connection Terminals

Terminal designation	Signal description
A1, A2	Voltage supply AC/DC
17, 18	NO contacts for star contactor
27, 28	NO contacts for delta contactor

Indicators

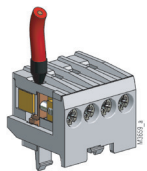
1 yellow LED each: On, when γ -Rel1 e.g. Δ -Rel2 energized

Circuit Diagram

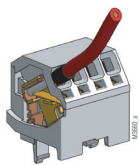


Technical Data		
Terminal designation:	EN 50005	
Wire connection	DIN 46228-1/-2/-3/-4	
Screw terminals (integrated):	1 x 4 mm ² solid or 1 x 2.5 mm ² stranded ferruled or 2 x 1.5 mm ² stranded ferruled or 2 x 2.5 mm ² solid	
Insulation of wires or sleeve length:	8 mm	
Plug in with screw terminals		
max. cross section for connection:	1 x 2.5 mm ² solid or 1 x 2.5 mm ² stranded ferruled	
Insulation of wires or sleeve length:	8 mm	
Plug in with cage clamp terminals		
max. cross section for connection:	1 x 4 mm ² solid or 1 x 2.5 mm ² stranded ferruled	
min. cross section for connection:	0.5 mm ²	
Insulation of wires or sleeve length:	12 ±0.5 mm	
Wire fixing:	Plus-minus terminal screws M 3.5 box terminals with wire protection or cage clamp terminals	
Fixing torque:	0.4 Nm	
Mounting:	DIN rail	
Weight:	140 g	
IEC/EN 60715		
Dimensions		
Width x height x depth:		
MK 7853N:	22.5 x 90 x 97 mm	
MK 7853N PC:	22.5 x 111 x 97 mm	
MK 7853N PS:	22.5 x 104 x 97 mm	
Standard Type		
MK 7853N	AC 220 ... 240 V	30 s / 35 ms
Article number:	0061017	
• Output:	1 fleeting on make 1 NO contact delay on	
• Nominal voltage U _N :	AC 220 ... 240 V	
• Time range / changeover time:	1.5 ... 30 s / 35 ms	
• Width:	22.5 mm	
Ordering Example		
MK 7853N	AC 220 ... 240 V	30 s / 35 ms
Changeover time		
Time range		
Nominal voltage		
Type of terminals		
without indication:		
terminal blocks fixed		
with screw terminals		
PC (plug in cage clamp):		
pluggable terminal blocks		
with cage clamp terminals		
PS (plug in screw):		
pluggable terminal block		
with screw terminals		
Type		

Options with Pluggable Terminal Blocks



Screw terminal
(PS/plugin screw)

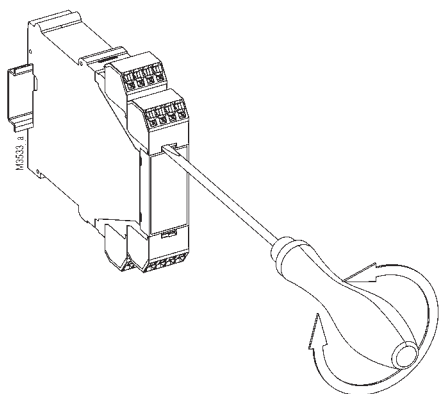


Cage clamp
(PC/plugin cage clamp)

Notes

Removing the terminal blocks with cage clamp terminals

1. The unit has to be disconnected.
2. Insert a screwdriver in the side recess of the front plate.
3. Turn the screwdriver to the right and left.
4. Please note that the terminal blocks have to be mounted on the belonging plug in terminations.



Connection Examples

