

## Electronic Timers

Delayed pulse XIW



### DESCRIPTION

Timer with delayed pulse function for automatic star/delta motor start-ers.

Fixed time range: 1.5-60sec. The time is adjustable on the timer front.

The timer is available in different versions for AC and DC supply voltage and has a single relay output.

Versions available for DIN rail or 11-pole plug-in mounting.

### OPERATION

#### Delayed pulse.

The timing period starts when supply voltage is connected and the LED lights up (low intensity). When the preset time has elapsed, the relay is energized for 75msec. and is afterwards de-energized again.

The LED lights up (normal intensity) when the relay is energized and remains lit until supply voltage is disconnected.

When the supply voltage is disconnected, the timer resets.



### VERSIONS/ORDERING CODES

<b>Type:</b> Star/delta starter.	XIW	-	S	1	230
<b>Mounting:</b> 11-pole plug-in. DIN rail.	S		D		
<b>Output relay:</b> SPDT.				1	
<b>Supply voltage:</b> 24V AC/DC 48V AC/DC 110/120V AC 220/240V AC 380/415V AC	024		048	115	230
					400

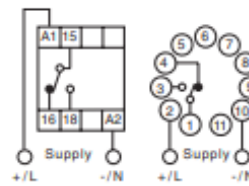
## TECHNICAL DATA

<b>Time range:</b>	1.5-60sec.
<b>Pulse duration:</b>	75msec. $\pm$ 15msec.
<b>Timer accuracy:</b>	
Repeating accuracy:	$\pm$ 0.5% at constant conditions.
Setting accuracy:	$\pm$ 10%.
Temperature drift:	Max. 0.15% per °C.
<b>Reset time:</b>	Max. 100msec.
<b>Output relay:</b>	SPDT.
Load (cos $\phi$ =1):	D1/S1: Max. 8A/240V AC <sup>1)</sup> Min. 10mA/24V DC
Contact material:	AgNi 0,15
Frequency:	Max. 1000 operations per hour at max. load.
Mechanical life time:	Min. 10 x 10 <sup>6</sup> operations.
Electrical life time:	Min. 100,000 operations at max. Load.
Operate and release time:	Max. 20msec.
<b>Mounting:</b>	
S1:	11-pole plug-in.
D1:	Directly on DIN rail TS35 (EN50022).
<b>Terminals: (D1 only):</b>	Max. conductor size 4 mm <sup>2</sup> .
	Screw type terminals with self-lifting clamps shrouded in accordance to VDE0106 (finger and back of hand protection).
<b>Supply voltage:</b>	24V AC/DC (20-28V), 48V AC/DC (40-56V), 110/120V AC (95-135V), 220/240V AC (195-265V), 380/415V AC (340-460V).
<b>Mains frequency:</b>	40-60Hz.
<b>Consumption:</b>	0.5-5VA.
<b>Cable lengths:</b>	
Supply voltage:	Max. 50 m.
<b>Protection:</b>	
S1:	IP40.
D1:	IP20.
<b>EMC:</b>	Conforming to EN 50081-1/EN 50082-2.
<b>Isolation:</b>	
Supply to relay contacts:	2kV AC according to EN 60950 class I.
<b>Ambient temperature:</b>	-20 to +55°C.
<b>Housing:</b>	Black Noryl SE-1.
<b>Weight:</b>	Typically 80 g.

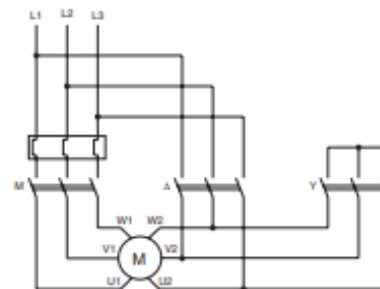
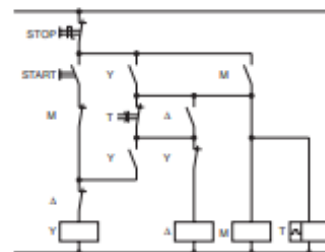
## NOTES/REMARKS

1) When inductive or DC loads are switched the load capacity of the output relay is reduced, see the output load diagrams on fig. 1 and 2. When inductive loads are switched, it is recommended to use a RC-network, see accessories on page 130, to protect the relay contacts.

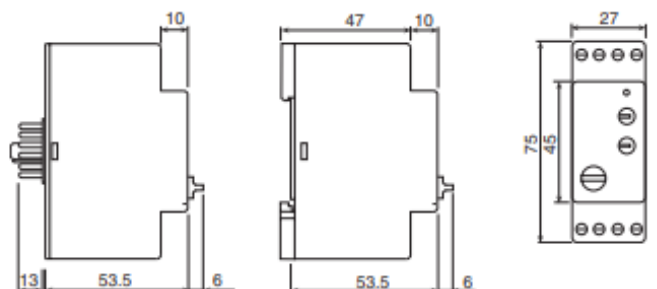
## WIRING DIAGRAMS



## WIRING DIAGRAMS FOR AUTOMATIC STAR/DELTA MOTOR STARTER



## MECHANICAL DIMENSIONS



## OUTPUT LOAD DIAGRAMS

Fig.1

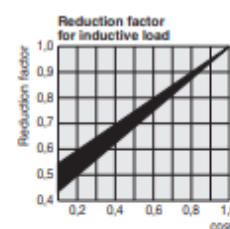


Fig.2

