

### **ETR-Series 17.5mm Timers** ETR1-X / ETRE-X / ETRCS-X / ETRN-X / ETR-S / ETR-Sa

#### **Features**

- · Slim and Compact Design.
- · Suitable for Din-Rail mounting.
- · Finger guard protection.
- · LED indication for timing in progress.



## **Ordering Information**

Models	Function	Source Voltage	Time Selection	Output	
ETR1-X	On Delay		0.3Sec to 30Min	1 C/o Relay	
ETRE-X	Interval	24V AC to 240V AC,	0.3 Sec to 30 Min		
ETRCS-X	Cyclic Equal Off - On	24V DC to 220V DC	0.6Sec to 60 Min		
ETRN-X	Auxiliary		20m Sec		
ETR-S	Otan Dalta	0401/40	6s to 60s, Transfer Time 100ms	1 C/o (C-NO)Star	
ETR-Sa	-Star Delta	240V AC	12s to 120s, Transfer time,100mSec	1 C/o (C-NO)Delta	

**Front View** ETR1-X ETRE-X **ETRCS-X ETRN-X** ETR-S ETR-Sa













**Side View** ETR1-X ETRE-X **ETRCS-X** 

**ETRN-X** 

**ETR-S** ETR-Sa













### **Over-all Dimension**

	Dimension Details in mm				
Models	W	Н	D		
ETR1-X/ETRE-X/ETRCS-X/ETRN-X/ETR- S/ETR-Sa	17.8	90	65		
ETR-S	17.5	89	62		

## **■** Specifications

Parameters Models	ETR1-X	ETRE-X	ETRCS-X	ETRN-X	ETR-S	ETR-Sa
Function	ON delay timer Equal OFF-ON Auxiliary cyclic timer relay timer		,	Star to delta change over timer with star time & transfer time.		
Rated supply Voltage	24 to 240V AC & 24 to 220V DC				240V AC	
Operating voltage range	± 10% of ra	ated voltage			-20% to +10% of rated voltage	
Rated Frequency	50 / 60Hz ± 5%				50Hz ± 5%	
Allowable ripple (for DC supply)	3% maximum				-	
Power consumption	AC approx.5VA DC approx.3W			A C approx.15VA		
Control output	1C/O rated for 5A @ 250VAC/28VDC resistive load					
Time range	0.3 Sec to 30 Min		0.6 Sec to 6 Min	20 ± 10mSec	6Sec to 60 Sec/Transfer time,100mSec	
Range selection	-				± 10mSec	12Sec to 120 Sec/Transfer time,100mSec ± 10mSec
Setting accuracy	± 10% max	± 10% max. w.r.t full scale ±100mSec			± 10% max. w.r.t full scale ±100mSec	
Repeat accuracy	± 1% max. ± 100mSec -			-	± 1% max. ± 100mSec	
Recovery time	100mSec minimum			150mSec minimum		
Variation due to voltage change	± 2% max. ± 100mSec -			± 2% max. ± 100mSec		
Variation due to temperature change	± 5% max. ± 100mSec -			-	± 5% max. ± 100mSec	
Variation due to frequency change	± 2% max. ±100mSec -			-	± 2% max. ±100mSec	
Ambient temperature	Operation: -10°C to +55°C Storage: -25°C to +80°C					
Humidity	MAX 95% RH @ 40°C				MAX 85% RH @ 40°C	
Service life (under no load)	10 <sup>6</sup> operations minimum					
Electrical life (under full load)	10 <sup>5</sup> operations minimum					
Rated frequency of operation	1800 ± 5% operations per hour max					
Insulation resistance	>100M ohms @ 500V DC					
Dielectric strength	01) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1 minute. (Between relay contact terminals & enclosure) 03) 1.5 KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 10-30 sec. (Between non continuous contacts of the relay)			01) 2.5KV AC, 50Hz for 1 minute. (Between current carrying& noncurrent carrying parts) 02) 1.5KV AC, 50Hz for 1 minute. (Between contacts & Control Circuit) 03) 750V AC, 50Hz for 1 Minute (Between non-continuous contacts of the relay)		
Electrical connection	3 pin screw type terminal			Screw type terminals with self lifting clamps		
Dimension	17.8 x 90 x 65mm (W x H x D)			17.5 x 89x 62mm (W x H x D)	17.8 x 90 x 65mm (W x H x D)	

# **Connection and Terminal Details**

