minilec

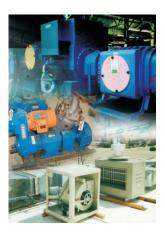
ELECTRONIC TIMERS



Minilec offers timers for various fuctions and applications, in various enclosures/sizes and with multi voltage options.

MODELS

S1 ETS1, S1 ETM1, ETS D1, ETA D1, ESR D1, S1 ESD1, D1 ETM1, S2ETM1, S2 ETM2



FEATURES

- Single voltage & Multi-voltage
- Single function and multi-function
- · Wide time range
- Better repeat Accuracy
- Models with Micro-Controller based design
- Use of SMD Technology (S2 Series models)

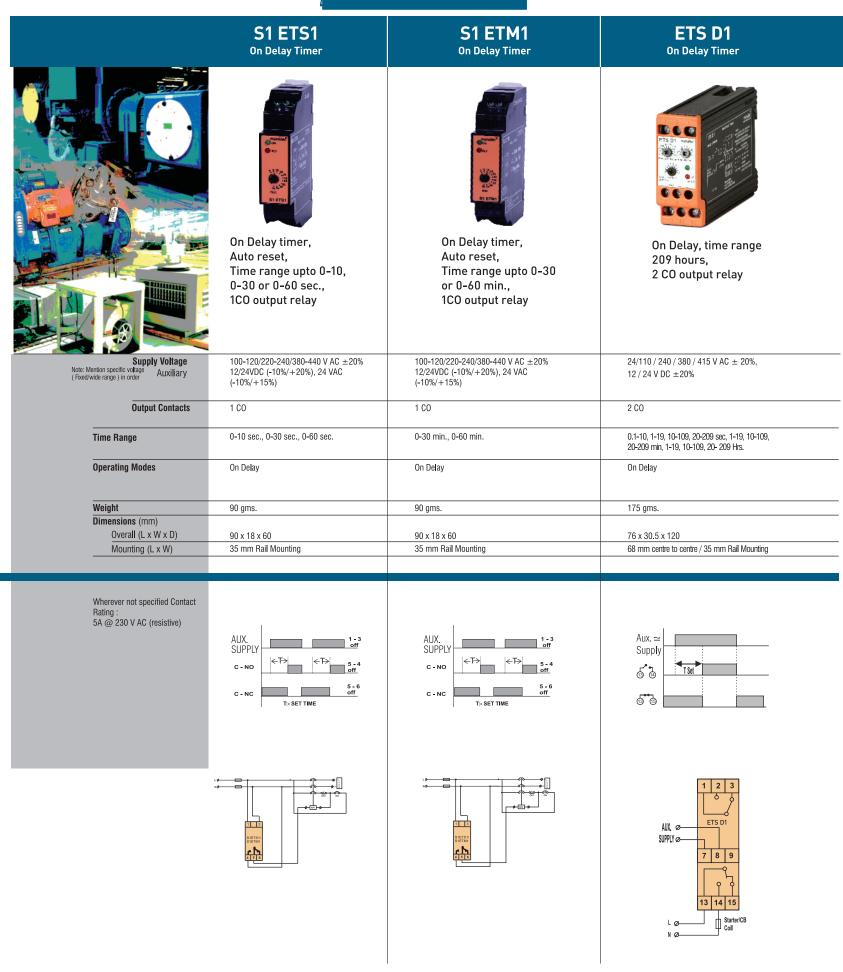
FUNCTIONS

- On Delay
- Interval Delay
- Cyclic ON/OFF
- Multi-Attempt (for Engine Starting)
- Star-Delta changeover

Ordering Instructions

- Product Family Name
- Model Name
- Aux. Supply/Control supply voltage
- Application
- Time Range

ON DELAY TIMERS

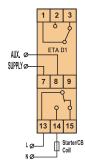


Note: Relay contacts Shown For Relay in Power Off Condition. ETS D1 old model available on request

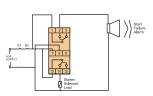
SPECIAL FUNCTION TIMERS



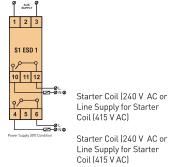
	SPECIAL FUNCTION TIMERS	
ETA D1 On Delay Timer (Multivoltage)	ESR D1 Engine Start Relay	S1 ESD1 Start Delta Timer
FIA 01 *** Zon State of the s	BER CT ASSAULT STATE OF THE ST	Constant of the second of the
On Delay, time range 30 Minutes, Multi- voltage supply, 2 CO output relay	Multi-attempt engine start relay	Star to Delta, Changeover timer, Time range upto 60 seconds, 2x1 NO output relay
24-240 V AC / DC +10%, - 20%	12, 24 VDC ± 10 % 110 / 220/ 230 / 240 VAC ± 20%	100-120/220-240/380-440 V AC ±20% 12/24 VDC (-10%+20%)
2 CO	Start attempts - 1 CO Alarm on - 1 CO	1 NO-Star relay 1 NO-Delta relay
0.7 secs 30 mins. (4 ranges)		0.75 - 75. sec., 6 - 60sec.
On Delay	Start Time - 1 to 10 secs. (via Potentiometer) Pause Time - 2 to 20 secs. (via Potentiometer) Number of attempts - 1 to 10 (via Potentiometer)	Star Delta Changeover Time 50 / 100 m.secs.
160 gms.	175 gms.	120 gms. (Approx.)
76 x 30.5 x 117.5	76 x 30.5 x 117.5	90 x 18 x 60
68 centre to centre / 35 mm Rail Mounting	68 mm centre to centre / 35 mm Rail Mounting	35 mm Rail Mounting
Aux. ≃ Supply	POWER SUPPLY STATE RELAY OIL ALARM RELAY ON 1.2 ON	SUPPLY SUPPLY OFF FINANSFER DELAY T :- SET TIME.



Relay contact position shown in 'Time Elapsed' condition



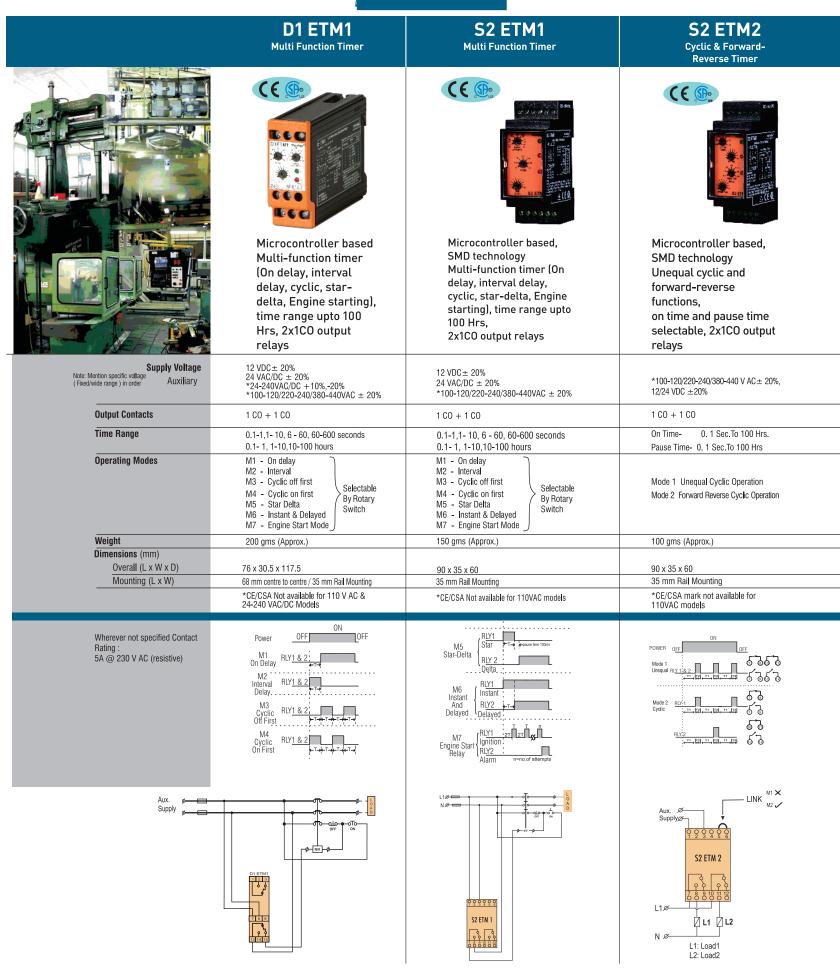
Note: Relay contacts shown for relay in energized condition & alarm relay in de energized condition



Relay contact position shown in 'Time Elapsed' condition ____



CYCLIC TIMERS



Relay contact position shown in 'Power off' condition

Note: S2 Series - RoHS Product available on request.