

ETR SELECTION GUIDE

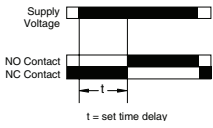
Match the functions you need in the far left column to the corresponding model along the top of the chart.

Function	ETR-D17MF1-	ETR-D22DEI-60M-	ETR-D22DEI-30H-	ETR-D22SD-	ETR-D22SS-	ETR-S45DEI	ETRD-P45MF2-
Timing Functions							
Delay							
ON-Delay (Energize Delay)	✓	✓	✓			✓	✓
OFF-Delay (De-Energize Delay)				✓			
Interval Delay	✓	✓	✓			✓	✓
Pulse Output	✓						
Cyclic							
Repeat Cycle Equal (ON First)	✓						
Repeat Cycle Equal (OFF First)	✓						
Cyclic, ON First							✓
Cyclic, OFF First							✓
Delay On Make or Break							
Delay on Break	✓						
Delay on Break with Totalize	✓						
Delay on Make/Delay on Break	✓						
Interval							
Interval After Break	✓						
Interval with Totalize	✓						
Latching Relay	✓						
Single Shot							
Single Shot	✓						
Re-Triggerable Single Shot	✓						
Special							
Star (Wye) Delta					✓		
Motor Forward-Pause-Reverse							✓
Instantaneous + Delayed at Start Pulse							✓
Instantaneous + Delayed at Power On							✓
Timer							✓
Batch							✓
Other Characteristics							
Dimensions (mm)	17.5	22.5	22.5	22.5	22.5	45	45
Mounting	DIN, Panel	DIN, Panel	DIN, Panel	DIN, Panel	DIN, Panel	Door, DIN, Panel	Door (Only)
Quantity of Timing Ranges	10	8	12	2-Factory Set	2	12	Many (9999)
Timing Ranges ("<" means "less than")	< 1 sec to 3 hrs	< 1 sec to 60 min	< 1 sec to 30 hrs	1 sec to 3 min	1 sec to 1 min	< 1 sec to 30 hrs	0.01 sec to 9999 hrs
Types	Delay	Delay	Delay	Delay	Startup Delay, Changeover Delay	Delay	Start, On, Pause, Off
Control Contact (Input)	✓						✓
Output Contact(s) (C/O = Changeover, NO = Normally Open)	SPDT (1 C/O)	SPDT (1 C/O)	DPDT (2 C/O)	DPDT (2 C/O)	Star (Wye): 1 SPDT (1 C/O) Delta: 1 SPDT (1 C/O)	DPDT (2 C/O)	2 SPST (NO, not C/O)
Line Power (Voltage)							
24V DC							✓
110V 50Hz / 120V 60Hz AC					✓		
230V 50Hz / 240V 60Hz AC							
400-415V 50Hz AC					✓		
20-240V AC (50/60Hz) & 12-240V DC	✓		✓			✓	
110V 50Hz / 120V 60Hz & 24V AC/DC							
230V 50Hz / 240V 60Hz & 24V AC/DC		✓					
85-270V AC/DC (AC: 50/60Hz)							✓
110-240V AC/DC (AC: 50/60Hz)				✓			

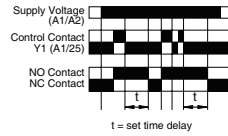
Timing Charts:

Timing Charts for 45mm Digital Electronic Timing Relays can be found on pages 31 & 32.

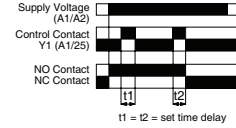
ON DELAY (ENERGIZE DELAY)



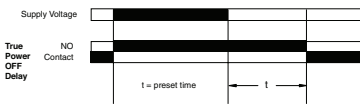
DELAY ON BREAK



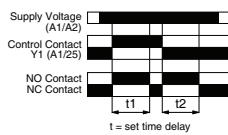
INTERVAL WITH TOTALIZE (TIME STORAGE)



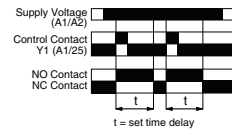
OFF DELAY (DE-ENERGIZE DELAY)



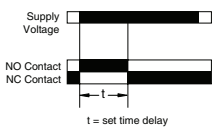
INTERVAL ON MAKE / INTERVAL ON BREAK



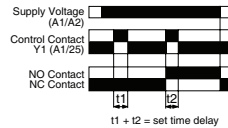
SINGLE SHOT



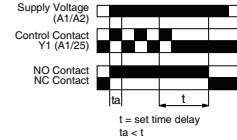
INTERVAL DELAY



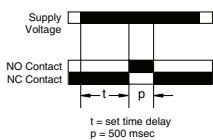
DELAY ON MAKE WITH TOTALIZE (TIME STORAGE)



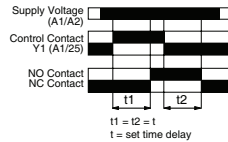
RETRIGGERABLE SINGLE SHOT



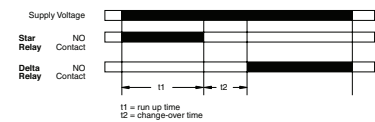
PULSE OUTPUT



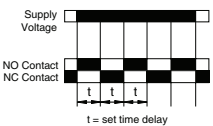
DELAY ON MAKE / DELAY ON BREAK



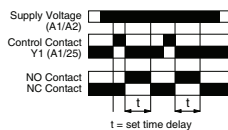
STAR (WYE) DELTA



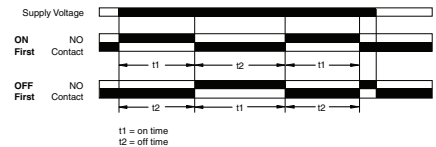
REPEAT CYCLE EQUAL (ON FIRST)



INTERVAL AFTER BREAK



(ASYMMETRICAL) CYCLIC ON FIRST, CYCLIC OFF FIRST



REPEAT CYCLE EQUAL (OFF FIRST)

