

ETR SELECTION GUIDE

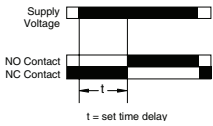
Match the functions you need in the far left column to the corresponding model along the top of the chart.

Function	ETR-D17MF1-	ETR-D22DEI-30H-	ETR-D22SD-	ETR-D22SS-	ETR-S45DEI	ETRD-P45ME2-
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	45	45
Mounting	DIN, Panel	DIN, Panel	DIN, Panel	DIN, Panel	Door, DIN, Panel	Door (Only)
Quantity of Timing Ranges	10	12	2-Factory Set	2	12	Many (9999)
Timing Ranges ("<" means "less than")	< 1 sec to 3 hrs	< 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	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)	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)			✓			

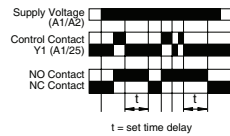
Timing Charts:

Timing Charts for 45mm Digital Electronic Timing Relays can be found on pages 28 & 29.

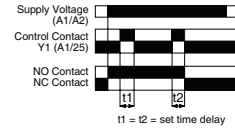
ON DELAY (ENERGIZE DELAY)



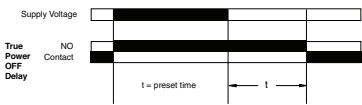
DELAY ON BREAK



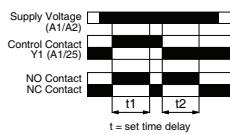
INTERVAL WITH TOTALIZE (TIME STORAGE)



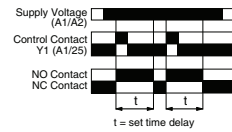
OFF DELAY (DE-ENERGIZE DELAY)



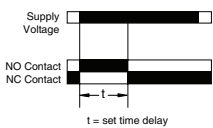
INTERVAL ON MAKE / INTERVAL ON BREAK



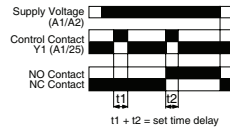
SINGLE SHOT



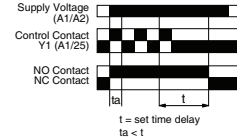
INTERVAL DELAY



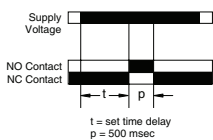
DELAY ON MAKE WITH TOTALIZE (TIME STORAGE)



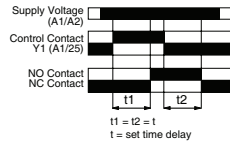
RETRIGGERABLE SINGLE SHOT



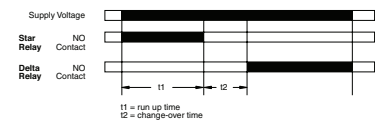
PULSE OUTPUT



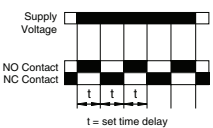
DELAY ON MAKE / DELAY ON BREAK



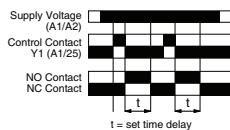
STAR (WYE) DELTA



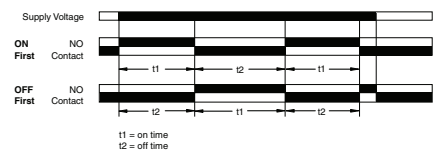
REPEAT CYCLE EQUAL (ON FIRST)



INTERVAL AFTER BREAK



(ASYMMETRICAL) CYCLIC ON FIRST, CYCLIC OFF FIRST



REPEAT CYCLE EQUAL (OFF FIRST)

