

MFR 7

Multi-function timing relay



MFR 7

Instead of timing units with only one function, these units offer the affordable possibility to implement several common time functions, such as ON-delay, impulse-ON, impulse-OFF, or pulsemonitoring. They reduce storage costs, since only one unit is needed for all applications.

Features

- 7 Time functions
- 6 Time ranges 50 ms bis 10 h
- Control contact
- Wide-range input 24 to 48V DC / 24 to 240V AC
- Width, 17,5mm
- Installation design
- Relais output: 1 CO contact
- Easy to mount on TS35 DIN rail
- IP 20 protection



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Our ideas – your advantages

MFR Multi-function timing relay

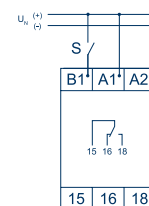
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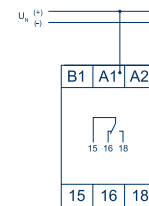


Type	MFR 7		VPE
Cat. No.	16373.2		10
Dimensions (L x B x H) TS 35 x 7,5	90x17,5x57,9mm		
Weight	44g		
Functions	E, R, Ws, Wa, Bp, F, Wu (Wu = Ws with fixed jumper A1-B1)		
Time ranges / Setting ranges	50 ms to 10 h		
Displays	Green LED U/t ON Supply voltage applied Green LED U/t flashing* Indicates time has expired Yellow LED R ON/OFF* Position of output relay		
Input circuit	DC	AC	
Supply voltage (terminals A1 and A2)	24 to 48V DC, terminals A1 (+) - A2 (-)	24....240 V AC, terminals A1 - A2	
Tolerance	-15% / + 10 %	-15% / + 10 %	
Rated frequency	-	48 to 63 Hz	
Rated consumption	0,4W	1W (8VA)	
Power-on duration	100%	100%	
Backup power time	<20 ms	<60 ms (230V AC) / <30ms (24V AC)	
Recovery time	>100 ms	>100 ms	
Release voltage	> 30 % of min. supply voltage	> 30 % of min. supply voltage	
Control contact	Terminals A1-B1		
Input	yes		
Can carry load	DC min. 50 ms / AC min. 100 ms		
Output circuit	1 CO		
Contact	250V		
Rated voltage	5A / 250V		
Switching capacity (ohmic load)	AgNi		
Contact material	5A flink		
Fuse	1 x 106 cycles		
Mechanical lifespan	1 x 105 cycles		
Electrical lifespan	6/min - 1200/min		
Endurance with - without load			
Accuracy			
Basic accuracy	< 1,5% (from scale reading)		
Setting tolerance	< 5% (from scale reading)		
Repeat accuracy	< 0,5% or ± 5 ms		
Temperature influence	< 0,05% / °C		
General specifications			
Contamination degree / overvoltage category (IEC61812-1)	2 / II		
Rated insulation voltage (IEC 61812-1)	300V (Input circuit / Output circuit)		
Rated impulse voltage (IEC 61812-1)	2500V (Input circuit / Output circuit)		
Insulation test voltage (IEC 61812-1)	1600V (Input circuit / Output circuit)		
Ambient temperature / Storage temperature	-20 to +50°C / -40 to +70°C		
Relative humidity	25 to 75%		
Protection degree housing / terminals	IP40 / IP 20		
Connection type / cross-section	Screw connection / 0,25...2,5mm²		
Stripping length / Torque	7 mm / max. 0,5 Nm		

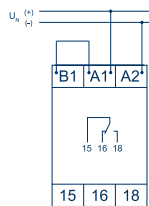
With control contact



Without control contact



Function Wu (Ws)



ON delay (E)



Impulse-ON voltage controlled (Wu)



Flasher begin with delay (Bp)



OFF-delay with control contact (R)



Impulse-OFF with control contact (Wa)



T-Flipflop (Toggle)



Impulse-ON with control contact (Ws)



Dimensions

