

GT3F-1,-2 Multi-Function Timers(Power OFF Delay Type)

Operating Instructions

TYPES

Operation Mode	Rated Voltage Mode	Time Range	Output	Contact	Input	Type No.	
						8-pin Type	11-pin Type
Power OFF Delay	AF20 : 100to240V AC AD24 : 24V AC (50/60Hz)	0.05 to 600sec (sec TIME RANGES for Details.)	250V AC/ 30V DC, 5A (resistive load)	Delayed SPDT	Reset	GT3F-1AF20	GT3F-1EAF20
						GT3F-1AD24	GT3F-1EAD24
	24V DC		250V AC/ 30V DC, 3A (resistive load)	Delayed DPDT	None (8p) Reset (11p)	GT3F-2AF20	GT3F-2EAF20
						GT3F-2AD24	GT3F-2EAD24

Note: Type No. including E represents 11-pin type, while Type No. without E represents 8-pin type.

TIME RANGES

●GT3F-1/GT3F-2

Dial Range	0 - 1	0 - 3	0 - 18	0 - 60
1S	0.1sec - 1sec	0.1sec - 3sec	0.1sec - 18sec	0.6sec - 60sec
10S	0.1sec - 10sec	0.3sec - 30sec	1.8sec - 180sec	6sec - 600sec

GENERAL SPECIFICATIONS

Operation System	Solid state CMOS circuitry
Operation Type	Power OFF delay
Time Range	0.1sec to 600sec
Rated Operational Voltage	100 to 240V AC(50/60Hz)
Voltage	24V AC (50/60Hz) /24V DC
Minimum Power Application Time	180sec maximum : 0.4sec 600sec : 1sec
Operating Temperature	-10 to +50°C
Storage Temperature	-30 to +80°C
Operating Humidity	45 to 85% RH
Voltage Tolerance	AF20 : 85 to 264V AC AD24 (AC) : 20.4 to 26.4V AC AD24 (DC) : 21.6 to 26.4V DC
Repeat Error	±0.2%, ±10msec
Voltage Error	±0.2%, ±10msec
Temperature Error	±0.2%, ±10msec
Setting Error	±10% maximum
Insulation Resistance	100M Ω
Dielectric Strength	Between power and output Terminals : 2,000V AC, 1 minute Between contacts of the different poles : 2,000V AC, 1 minute Between contacts of the same pole : 750V AC, 1 minute
Vibration Resistance	100m/sec ² (Approx. 10G)
Shock Resistance	Operating extremes : 100m/sec ² (Approx. 10G) Damage limits : 500m/sec ² (Approx. 50G)
Power Consumption (Approx.)	3.7VA (200V AC, 60Hz) 0.7VA (24V AC, 60Hz) 2.3W (24V DC)
Housing Color	Gray
Weight (Approx.)	75 g

CONTACT RATINGS

Contact Ratings	GT3F-1/ 250V AC/30V DC, 5A (resistive load) GT3F-2/ 250V AC/30V DC, 3A (resistive load)	
Life	Mechanical	10,000,000 operations minimum
	Electrical	100,000 operations minimum (rated load)

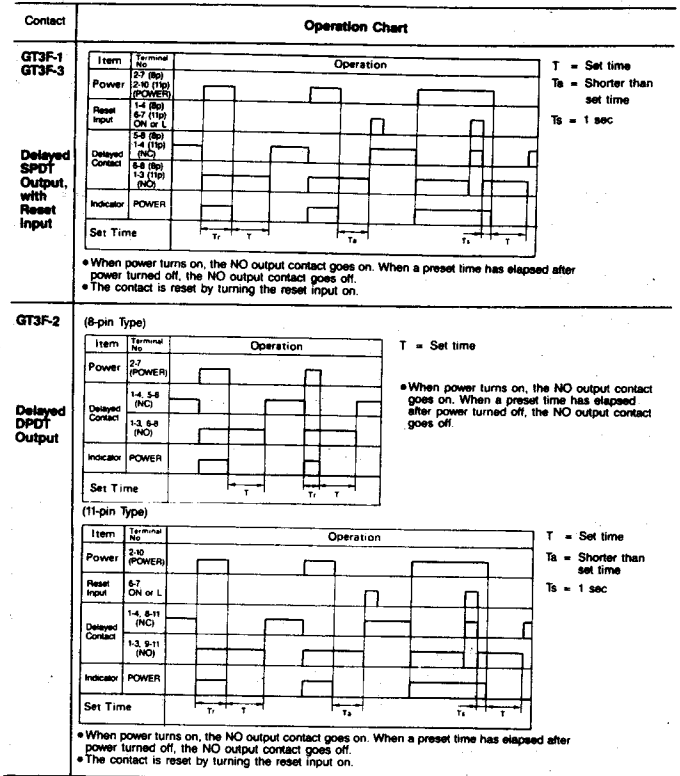
●UL/CSA Ratings

UL and CSA ratings are the same as the standard type in operating voltage and contact rating.

INPUT SPECIFICATIONS

Reset Input	<ul style="list-style-type: none"> The contact is reset by turning the reset input on (L level). No-voltage contact input and NPN open collector transistor input are applicable. 6V DC, 0.6mA maximum Input Response Time (AC Type) : ON 50 msec maximum, OFF 1 sec maximum
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OPERATION CHARTS



● Switch Setting

- The switches should be securely turned using a flat screwdriver, 4mm wide maximum. Note that incomplete setting may cause malfunction. The switches, which do not turn infinitely, should not be turned beyond the limits.
- Since changing the setting during timer operation may cause malfunction, power should be turned off before changing the setting.

● Inputs

Note that if you touch the input signal terminal during power voltage application, you may suffer an electric shock.

- Never apply the input signals to two or more GT3F timers using the same contact or transistor.
- In a transistor circuit for controlling input signals, with its primary and secondary power circuits isolated, do not ground the secondary circuit.
- On the GT3F timers, connect the input signals to terminal No.1 and 4 only on the 8-pin type or terminal No.6 and 7 only on the 11-pin type and never apply voltage to other terminals, otherwise the internal circuit may be damaged.
- Input signal lines must be made as short as possible and installed away from power cables and power lines. Shielded wires or a separate conduit should be used for input wiring.

● Other Precaution

If the power application time to the GT3F is shorter than the minimum power application time, output relay may not operate or the timer may operate faster than the preset time.