

GT3W Series — DualTime Range Timers

Key features:

- Sequential start, sequential interval, on-delay, recycler, and interval ON timing functions
- 2 time settings in one timer
- 8 selectable operation modes on each model
- Mountable in sockets or flush panel
- Power and output status indicating LEDs
- Time ranges up to 300 hours



General Specifications

| | | |
|--|-------------------------|---|
| Operation System | | Solid state CMOS Circuit |
| Operation Type | | Multi-Mode |
| Time Range | | 1: 0.1sec to 6 hours, 3: 0.1sec to 300 hours |
| Pollution Degree | | 2 (IE60664-1) |
| Over Voltage Category | | III (IE60664-1) |
| Rated Operational Voltage | AF20 | 100-240V AC(50/60Hz) |
| | AD24 | 24V AC(50/60Hz)/24V DC |
| | D12 | 12V DC |
| Voltage Tolerance | AF20 | 85-264V AC(50/60Hz) |
| | AD24 | 20.4-26.4V AC(50/60Hz)/21.6-26.4V DC |
| | D12 | 10.8-13.2V DC |
| Disengaging Value of Input Voltage | | Rated Voltage x10% minimum |
| Range of Ambient Operating Temperature | | -10 to +50°C (without freezing) |
| Range of Ambient Storage and Transport Temperature | | -30 to +75°C (without freezing) |
| Range of Relative Humidity | | 35 to 85%RH (without condensation) |
| Atmospheric Pressure | | 80kPa to 110kPa (Operating), 70kPa to 110kPa (Transport) |
| Reset Time | | 60msec maximum |
| Repeat Error | | ±0.2%, ±10msec* |
| Voltage Error | | ±0.2%, ±10msec* |
| Temperature Error | | ±0.6%, ±10msec* |
| Setting Error | | ±10% maximum |
| Insulation Resistance | | 100MΩ minimum (500V DC) |
| Dielectric Strength | | Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute |
| Vibration Resistance | | 10 to 55Hz amplitude 0.75mm ² hours in each of 3 axes |
| Shock Resistance | | Operating extremes: 98m/sec ² (approx. 10G) Damage limits: 490m/sec ² (approx. 50G) 3 times in each of 3 axes |
| Degree of Protection | | IP40 (enclosure), IP20 (socket) (IEC60529) |
| Power Consumption (Approx.) | AF20 | 100V AC/60Hz 2.3VA |
| | | 200V AC/60Hz 4.6VA |
| | AD24 (AC/DC) 1.8VA/0.9W | |
| Mounting Position | | Free |
| Dimensions | | 40Hx 36W x 70 mm |
| Weight (Approx.) | | 72g |



* For the value of the error against a preset time, whichever the largest applies.


Contact Ratings

| | | |
|---|--------------------------------|---------------------------------|
| Allowable Contact Power | | 960VA/120W |
| Allowable Voltage | | 250V AC/150V DC |
| Allowable Current | | 5A |
| Maximum permissible operating frequency | | 1800 cycles per hour |
| Rated Load | 1/8HP, 240V AC | |
| | 3A, 240V AC (Resistive) | |
| | 5A, 120V AC/30V DC (Resistive) | |
| Conditional Short Circuit | | Fuse 5A, 250V |
| Life | Electrical | 100,000 op. minimum (Resistive) |
| | Mechanical | 20,000,000 op. minimum |

Part Number List

Part Numbers

| Mode of Operation | Output | Contact | Time Range* | Rated Voltage | Pin Configuration | New Part Numbers |
|---|--|-----------------------------|--|--------------------------|-------------------|------------------|
| A: Sequential Start B: On-delay with course and fine C: Recycler and instantaneous D: Recycler outputs (OFF Start) E: Recycler outputs (ON Start) F: Interval ON G: Interval ON Delay H: Sequential Interval | 3A, 240V AC 5A, 120V AC/30V DC (Resistive Load) | Delayed SPDT + Delayed SPDT | 1: 0.1sec - 6 hours *(See Time Range Settings for details.) | 100 to 240V AC (50/60Hz) | 8 pin | GT3W-A11AF20N |
| | | | | | 11 pin | GT3W-A11EAF20N |
| | | | | 24V AC/DC | 8 pin | GT3W-A11AD24N |
| | | | | | 11 pin | GT3W-A11EAD24N |
| | | | | 12V DC | 8 pin | GT3W-A11D12N |
| | | | | | 11 pin | GT3W-A11ED12N |
| | | | 3: 0.1sec - 300 hours | 100 to 240V AC (50/60Hz) | 8 pin | GT3W-A33AF20N |
| | | | | 24V AC/DC | | GT3W-A33AD24N |

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1. For timing diagrams and schematics, see page 940.

2. For socket and accessory part number information, see page 959.

3. 8- and 11-pin models differ only in the number of pins (extra pins are not used).

4. For the timing diagram overview, see page 940.

5. *For details on setting time ranges, see the instructions on page 941.

Time Range Table

| Time Range Code: 1 | | | Time Range Code: 3 | | |
|---------------------|-------|------------------|---------------------|--------|---------------------|
| Time Range Selector | Scale | Time Range | Time Range Selector | Scale | Time Range |
| 1S | 0-1 | 0.1 sec - 1 sec | 1S | 0 - 3 | 0.1 sec - 3 sec |
| 10S | | 0.3 sec - 10 sec | 1M | | 3 sec - 3 min |
| 10M | | 15 sec - 10 min | 1H | | 3 min - 3 hours |
| 1S | 0 - 6 | 0.1 sec - 6 sec | 1S | 0 - 30 | 0.6 sec - 30 sec |
| 10S | | 1 sec - 60 sec | 1M | | 36 sec - 30 min |
| 1M | | 6 sec - 6 min | 1H | | 36min - 30 hours |
| 10M | | 1 min - 60 min | 10H | | 6 hours - 300 hours |
| 1H | | 6 min - 6 hours | | | |