

**Accessories Multimode Relay MT**

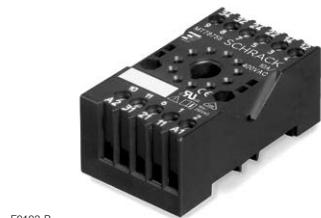
- Snap-on mounting on DIN-rail
- Screw mounting
- Pozidrive screws with rising clamp terminals
- Logical layout of input/output connections
- White marking area
- Din-rail sockets and accessories: RoHS compliant (Directive 2002/95/EC)



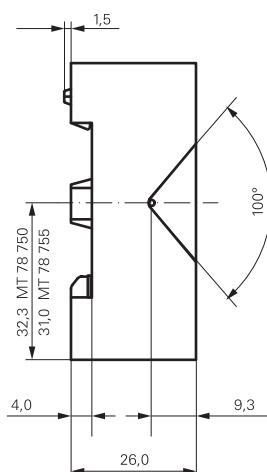
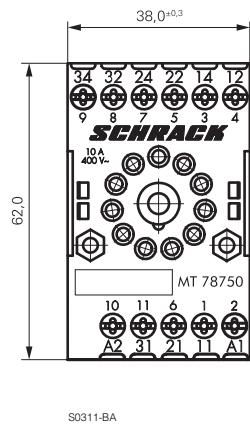
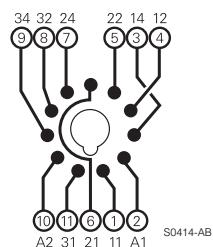
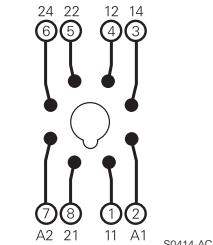
F0235-B

**MT DIN-rail sockets with screw-type terminals**

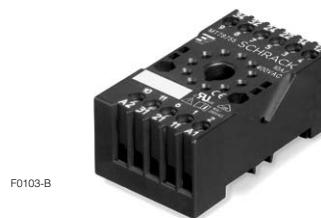
**MT 78 750** MT3 DIN-rail socket with screw-type terminals, 11-pin  
**MT 78 755** MT2 DIN rail socket with screw type terminals, 8-pin



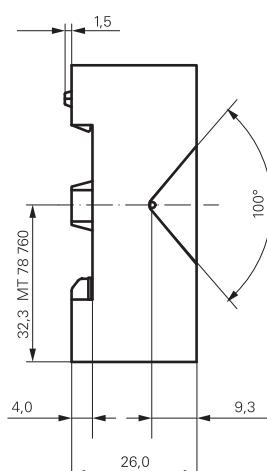
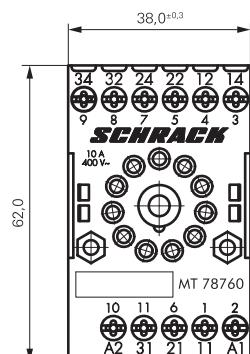
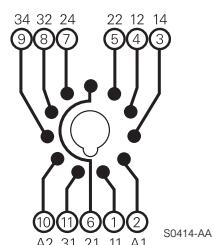
F0103-B


**MT 78 750**

**MT 78 755**


**MT 78 760** MT3 DIN-rail socket with screw-type terminals, 11-pin



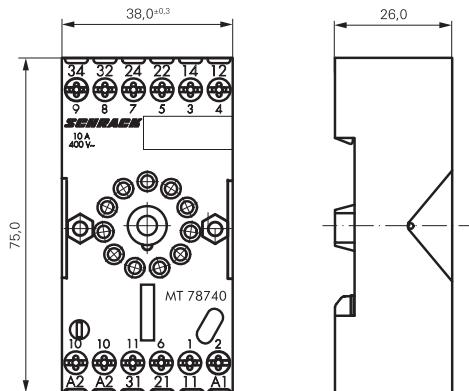
F0103-B


**MT 78 760**


**Accessories Multimode Relay MT (Continued)**

**MT 78 740** MT3 DIN-rail socket with screw-type terminals, 11-pin  
**MT 78 745** MT2 DIN rail socket with screw type terminals, 8-pin

F0200-B



Socket system MT 78 740 and MT 78 745  
 ■ 8/11 pin socket for MT2 / MT3  
 ■ Double A2 screw for simple further connection of coil supply

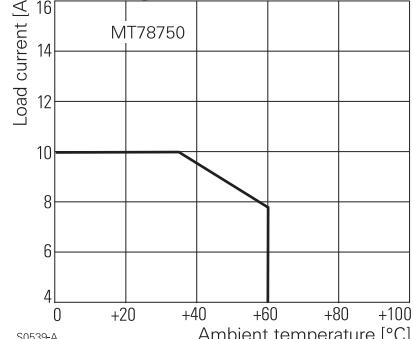
S0366-A

**Approvals**

 REG.-Nr. 6182,  E135149

**Technical data**
**MT 78 750/755/760/740/745**

|   |                         |
|---|-------------------------|
| Rated voltage / max. switching voltage AC | 240 / 400 VAC           |
| Rated current                             | 10 A                    |
| Dielectric strength coil-contact circuit  | 2500 V <sub>rms</sub>   |
| open contact circuit                      | 1500 V <sub>rms</sub>   |
| adjacent contact circuits                 | 2500 V <sub>rms</sub>   |
| Clearance / creepage coil-contact circuit | ≥ 2.8/4 mm              |
| Material group of insulation parts        | IIIa                    |
| Insulation to IEC 60664-1                 |                         |
| Type of insulation coil-contact circuit   | basic                   |
| open contact circuit                      | functional              |
| adjacent contact circuits                 | basic                   |
| Rated insulation voltage                  | 250 V                   |
| Pollution degree                          | 2                       |
| Rated voltage system                      | 230 / 400 V             |
| Overvoltage category                      | III                     |
| RoHS - Directive 2002/95/EC               |                         |
| DIN-rail sockets and retainers:           | compliant               |
| Ambient temperature range                 | -20...+80°C             |
| Terminals                                 | screw                   |
| Terminal screw torque acc. IEC 61984      | 0.5 Nm                  |
| max.                                      | 0.7 Nm                  |
| Wire cross section                        |                         |
| single wire                               | 2 x 2.5 mm <sup>2</sup> |
| fine wire                                 | 2 x 2.5 mm <sup>2</sup> |
| with bootlace crimp (DIN 46228/1)         | 2 x 1.5 mm <sup>2</sup> |
| Insertion cycles                          | A (10)                  |
| Max. Insertion Force total                | 100 N                   |
| Mounting distance                         | ≥ 0, dense packing      |
| Weight MT 78 750/760                      | 54 g                    |
| MT 78 755                                 | 47 g                    |
| MT 78 740                                 | 62 g                    |
| MT 78 745                                 | 56 g                    |
| Packaging unit                            | 25 pcs                  |

**Derating curve**

**DIN-rail sockets with screw-type terminals**

| Type             | Part Number                                       |
|------------------|---|
| <b>MT 78 750</b> | DIN-rail socket with screw-type terminals 11-pin  |
| <b>MT 78 755</b> | DIN-rail socket with screw-type terminals 8-pin   |
| <b>MT 78 760</b> | DIN-rail socket with screw-type terminals 11-pin  |
| <b>MT 78 740</b> | DIN-rail socket with screw-type terminals, 11-pin |
| <b>MT 78 745</b> | DIN-rail socket with screw-type terminals, 8-pin  |

**Accessories Multimode Relay MT (Continued)**
**Accessories for MT 78 750, MT 78 755, MT 78 760, MT 78 740, MT 78 745**

| Type                                     | Part Number |
|--|-------------|
| <b>MT 28 800</b> Metal retaining clip MT | 8-1393163-0 |


**LED and Protection modules for MT 78 740, MT 78 745**

| Type   | Part Number |
|--|-------------|
| <b>MTM T0 0A0</b> Protection diode 1N4007 (A1+, A2-) | 7-1393163-6 |
| <b>MTM U0 730</b> RC-network 110...230 VAC           | 7-1393163-8 |

**LED**

|                   |                      |             |
|-------------------|----------------------|-------------|
| <b>MTM L0 024</b> | red LED 24 VAC / VDC | 7-1393163-4 |
|-------------------|----------------------|-------------|

F0201-B

**Function modules for MT 78 740, MT 78 745**

| Type                            | Part Number |
|---------------------------------|-------------|
| <b>MTM Z0 W00</b> Delay ON      | 7-1393163-9 |
| <b>MTM F0 W00</b> Multifunction | 7-1393163-3 |



F0203-B



F0204-B

**Technical data - Function modules**

|                             |   |
|-----------------------------|---|
| Nominal voltage             | 24...240 VDC / VAC                      |
| Mains frequency             | 48...63 Hz                              |
| Precision of time setting   | $\pm 0.5\%$                             |
| Readiness for repetition    | $\leq 0.5\%$ or 5 ms                    |
| Influence of temperature    | $\leq 0.1\%/\text{°C}$                  |
| Time range switchable       | 0,05s...240h in 8 ranges                |
| RoHS - Directive 2002/95/EC | compliant as per product date code 0515 |
| Ambient temperature         | -25...+55 °C                            |

**Function modules for MT 78 740, MT 78 745**
**Function**

Delay ON



Delay OFF



single shot leading edge



single shot trailing edge


 Delay ON  
triggered by signal contact


single shot



flasher starting with pause



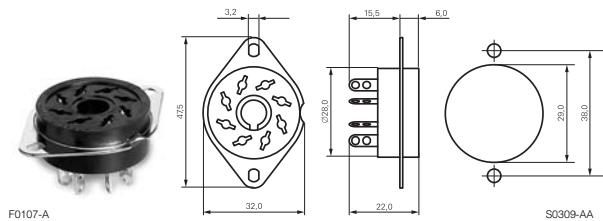
flasher starting with pulse



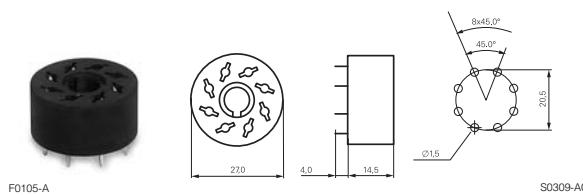
## **Accessories Multimode Relay MT (Continued)**

**MT sockets for PCB and with solder terminals MT 78 602/603/612/613**

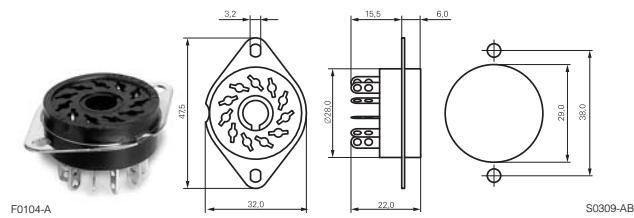
## **MT 78 612** Socket 8-pin with solder terminals



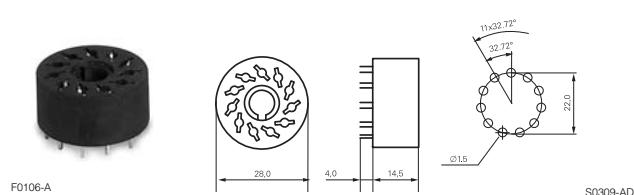
## MT 78 602 Socket 8-pin with PCB terminals



## **MT 78 613** Socket 11-pin with solder terminals



### **MT 78 603** Socket 11-pin with PCB terminals



## Technical data

MT 78 602/603/612/613

| Technical data                            |  | MT 7802/05/12/13                        |
|---|--|---|
| Rated voltage / max. switching voltage AC |  | 240 / 400 VAC                           |
| Rated current                             |  | 10 A                                    |
| Dielectric strength coil-contact circuit  |  | 2500 V <sub>rms</sub>                   |
| open contact circuit                      |  | 1500 V <sub>rms</sub>                   |
| adjacent contact circuits                 |  | 2500 V <sub>rms</sub>                   |
| Clearance / creepage coil-contact circuit |  | ≥ 2.8/4 mm                              |
| Material group of insulation parts        |  | IIIa                                    |
| Insulation to IEC 60664-1                 |  |   |
| Type of insulation coil-contact circuit   |  | basic                                   |
| open contact circuit                      |  | functional                              |
| adjacent contact circuits                 |  | basic                                   |
| Rated insulation voltage                  |  | 250                                     |
| Pollution degree                          |  | 2                                       |
| Rated voltage system                      |  | 230 / 400                               |
| Overvoltage category                      |  | III                                     |
| RoHS - Directive 2002/95/EC               |  |   |
| MT 78 602, MT 78 603                      |  | compliant as per product date code 0517 |
| MT 78 612, MT 78 613                      |  | compliant as per product date code 0543 |
| Ambient temperature range                 |  | -40...+70°C                             |
| Terminals                                 |  | pcb, solder terminals                   |
| Insertion cycles                          |  | A (10)                                  |
| Max. Insertion Force total                |  | 100 N                                   |
| Mounting distance                         |  | ≥ 0, dense packing                      |
| Resistance to soldering heat              |  | 270°C / 10 s                            |
| Weight                                    |  | 7 g                                     |
| Packaging unit                            |  | 25 pcs                                  |

## Sockets with solder and PCB terminals

| Type             |                                     | Part Number |
|------------------|-------------------------------------|-------------|
| <b>MT 78 612</b> | Socket 8-pin with solder terminals  | 7-1415043-1 |
| <b>MT 78 613</b> | Socket 11-pin with solder terminals | 8-1415043-1 |
| <b>MT 78 602</b> | Socket 8-pin with PCB terminals     | 9-1415043-1 |
| <b>MT 78 603</b> | Socket 11-pin with PCB terminals    | 1415044-1   |

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