

## 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)

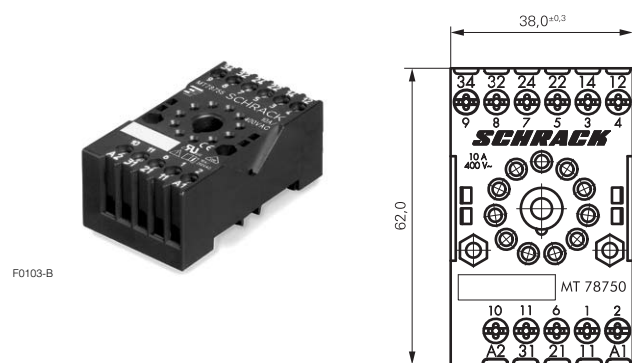


F0235-B

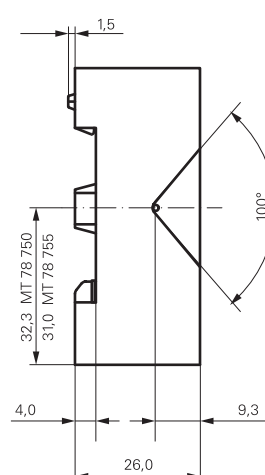
### MT DIN-rail sockets with screw-type terminals

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

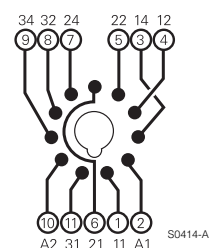
**MT 78 755** MT2 DIN rail socket with screw type terminals, 8-pin



S0311-BA

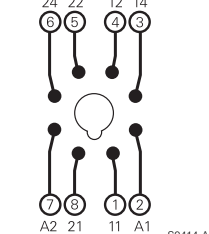


**MT 78 750**



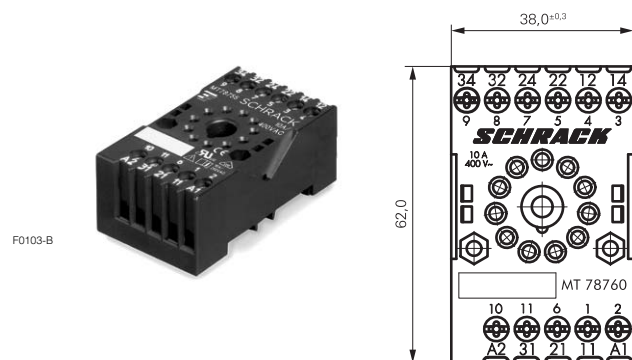
S0414-AB

**MT 78 755**

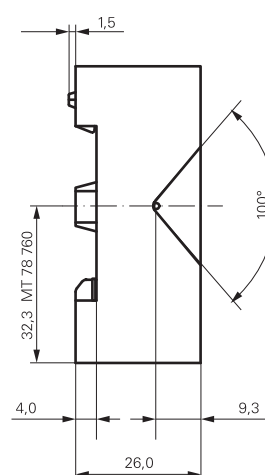


S0414-AC

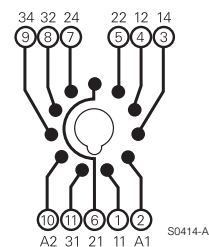
**MT 78 760** MT3 DIN-rail socket with screw-type terminals, 11-pin



S0311-BB



**MT 78 760**



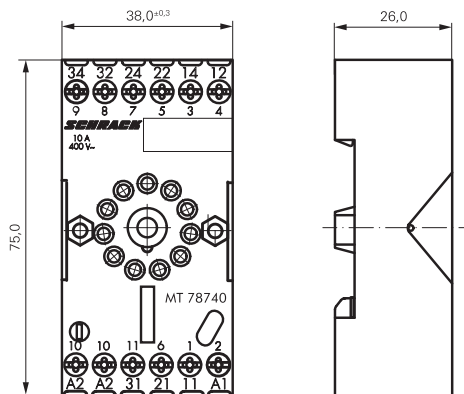
S0414-AA

## 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

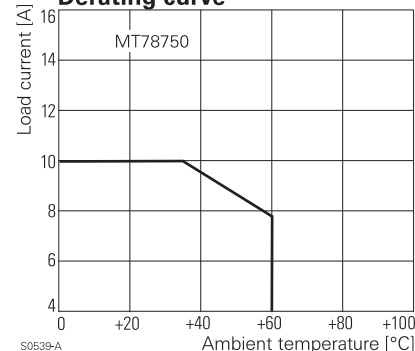
VDE REG.-Nr. 6182, cULus E135149

### 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



S0539-A

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

| Type                                                              | Part Number |
|-------------------------------------------------------------------|-------------|
| <b>MT 78 750</b> DIN-rail socket with screw-type terminals 11-pin | 1415035-1   |
| <b>MT 78 755</b> DIN-rail socket with screw-type terminals 8-pin  | 3-1415035-1 |
| <b>MT 78 760</b> DIN-rail socket with screw-type terminals 11-pin | 8-1415034-1 |
| <b>MT78 740</b> DIN-rail socket with screw-type terminals, 11-pin | 8-1393163-3 |
| <b>MT78 745</b> DIN-rail socket with screw-type terminals, 8-pin  | 8-1393163-4 |

## 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 |
|----------------------------------------|-------------|

### 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 |

### Technical data - Function modules

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Nominal voltage             | 24...240 VDC / VAC                      |
| Mains frequency             | 48...63 Hz                              |
| Precision of time setting   | + 0,5 %                                 |
| Readiness for repetition    | ≤ 0,5 % or 5 ms                         |
| Influence of temperature    | ≤ 0,1 %/°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  
triggerd by signal contact



single shot



flasher starting with pause



flasher starting with pulse



F0201-B



F0203-B

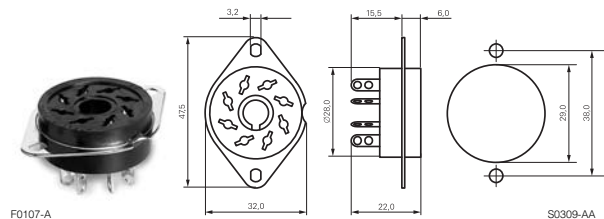


F0204-B

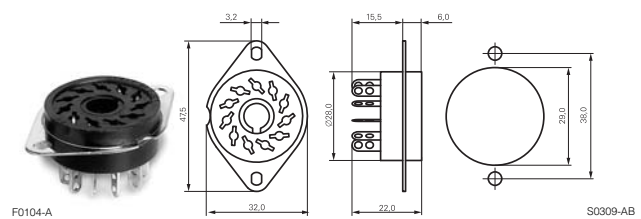
## Accessories Multimode Relay MT (Continued)

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

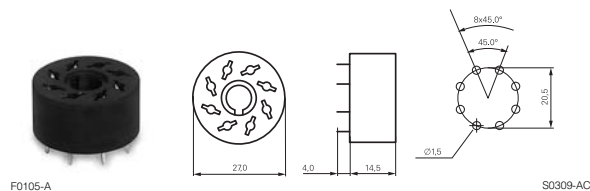
**MT 78 612** Socket 8-pin with solder terminals



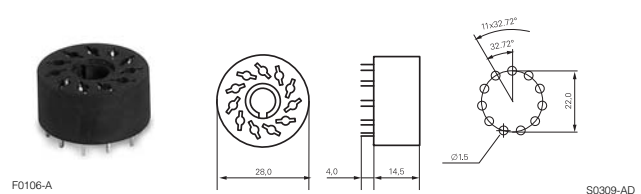
**MT 78 613** Socket 11-pin with solder terminals



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



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



| Technical data                            |  | MT 78 602/603/612/613                   |
|-------------------------------------------|--|-----------------------------------------|
| 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   |