# Product data sheet
## Characteristics

# TM3DQ16TG
discrete output module, Modicon TM3, 16 outputs transistor PNP, spring



## Main

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|---|---|
| Range of product | Modicon TM3 |
| Product or component type | Discrete output module |
| Range compatibility | Modicon M241<br>Modicon M251<br>Modicon M221<br>Modicon M262 |
| Device application | Industrial application |
| Discrete output number | 16 |
| Discrete output logic | Positive logic (source) |
| Discrete output voltage | 24 V DC for transistor |

## Complementary

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|---|---|
| Discrete output number | 16 transistor |
| Discrete output current | 500 mA transistor output |
| Response time on output | 450 µs maximum (turn on)<br>450 µs maximum (turn off) |
| Maximum leakage current | 0.1 MA |
| Maximum voltage drop | <0.4 V |
| Maximum tungsten load | <3 W for transistor |
| Safety reliability data | MTBF = 57 years 40 °C |
| Power supply type | Electronic powered by internal bus |
| Typical current consumption | 5 MA at 5 V DC<br>0 MA at 24 V DC<br>20 MA at 5 V DC<br>10 MA at 24 V DC |
| Electrical connection | 10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for outputs |
| Maximum cable distance between devices | Unshielded cable: <30 m for transistor output |
| Isolation between channels and bus | 500 V AC |
| Local signalling | 1 LED per channel (green) for output status |
| Housing colour | Grey |
| AWG gauge | 0.14…1.5 Mm² / 26 AWG...16 AWG with solid cable |
| Mounting support | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>plate or panel with fixing kit |
| Height | 90 Mm |
| Width | 27.4 Mm |
| Depth | 84.6 Mm |
| Net weight | 0.11 Kg |

## Environment

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|---|---|
| IP degree of protection | IP20 |
| Protective treatment | None |
| Marking | CE |
| Product certifications | CE[RETURN]CULus[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]CULus HazLoc |
| Standards | IEC 61131-2 |
| Ambient air temperature for operation | -10…35 °C (vertical installation)<br>-10…55 °C (horizontal installation) |
| Ambient air temperature for storage | -25…70 °C |
| Relative humidity | 10…95 % without condensation for operation<br>10…95 % without condensation for storage |
| Operating altitude | 0...2000 m |
| Pollution degree | 2 |
| Vibration resistance | 3.5 mm (f = 5…8.4 Hz) on DIN rail<br>3 gn (f = 8.4…150 Hz) on DIN rail<br>3.5 mm (f = 5…8.4 Hz) on panel mounting<br>3 gn (f = 8.4…150 Hz) on panel mounting |
| Shock resistance | 15 gn for 11 ms |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.5 Cm |
| Package 1 Width | 12.5 Cm |
| Package 1 Length | 10.5 Cm |
| Package 1 Weight | 245.0 G |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 42 |
| Package 2 Height | 30 Cm |
| Package 2 Width | 40 Cm |
| Package 2 Length | 60 Cm |
| Package 2 Weight | 11.273 Kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 504 |
| Package 3 Height | 105 Cm |
| Package 3 Width | 120 Cm |
| Package 3 Length | 80 Cm |
| Package 3 Weight | 124 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 3 |
| Total lifecycle Carbon footprint | 34 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 15.296691270062574 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 15 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.05286716126193174 |
| Carbon footprint of the distribution phase [A4] | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.006234617960346315 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 18.21409325640929 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 18 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5660762310646377 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.6 kg CO2 eq. |

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|---|---|
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 34 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 7cc01735-94b8-432b-9a81-f9da4dd7709d |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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| Warranty (in months) | 18 |

Product Life Status : Commercialised