# Product data sheet
## Characteristics

# TM5SDO4TAFS
## Safety dc discrete output module, Modicon TM5, digital 4O, 24V 2 A



## Main

| | |
|---|---|
| Range of product | Modicon TM5 |
| Product or component type | Safety dc discrete output module |
| Product compatibility | PacDrive LMC Eco<br>PacDrive LMC Pro 2<br>PacDrive LMC Pro |
| Range compatibility | PacDrive LMC motion controller |
| Discrete output number | 4 |
| Discrete output logic | Source |
| Discrete output voltage | 24 V DC (20.4...28.8 V) for solid state |

## Complementary

| | |
|---|---|
| Current per channel | 2 A |
| Maximum current per output common | 5 A |
| Peak output current | 12 A |
| Switching frequency | <= 500 Hz resistive load |
| Discrete output number | 4 solid state at 24 V DC |
| Maximum leakage current | 10 MA 24 V DC when switched off |
| Safety reliability data | MTTFd > 100 years<br>PFD < 1E-5<br>PFH < 1E-9 |
| Electrical connection | 2 wires |
| Local signalling | 1 LED (green) for power supply<br>1 LED (red) for power supply<br>2 LEDs (red) for safety status<br>4 LEDs (red/orange) for output status |
| Height | 99 Mm |
| Width | 25 Mm |
| Depth | 75 Mm |
| Net weight | 0.025 Kg |
| Electromagnetic compatibility | Electrostatic discharge immunity test, 4 kV on contact conforming to IEC 61000-4-2<br>Electrostatic discharge immunity test, 8 kV in air conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test, 1 kV I/O conforming to IEC 61000-4-4<br>Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to IEC 61000-4-4<br>Electrical fast transient/burst immunity test, 2 kV power lines conforming to IEC 61000-4-4<br>1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to IEC 61000-4-5<br>1.2/50 µs shock waves immunity test, 1 kV common mode conforming to IEC 61000-4-5<br>Conducted RF disturbances conforming to IEC 61000-4-6<br>Conducted and radiated emissions conforming to CISPR 11 |

## Environment

| | |
|---|---|
| IP degree of protection | IP20 |
| Marking | CE |
| Product certifications | CSA[RETURN]CULus[RETURN]GOST-R |
| Standards | UL 508<br>IEC 61131-2<br>IEC 62061<br>EN 13849-1<br>CSA C22.2 No 142<br>IEC 61508 |
| Ambient air temperature for operation | -10…50 °C (vertical installation)<br>-10…55 °C (horizontal installation) |
| Ambient air temperature for storage | -40…70 °C |
| Relative humidity | 5…95 % without condensation |
| Operating altitude | 0...2000 m |
| Pollution degree | 2 |
| Vibration resistance | 1 gn (f = 8.4…150 Hz) on DIN rail<br>3.5 mm (f = 5…8.4 Hz) on DIN rail |
| Shock resistance | 15 gn for 11 ms |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.300 Cm |
| Package 1 Width | 6.000 Cm |
| Package 1 Length | 10.500 Cm |
| Package 1 Weight | 76.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 50 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 4.150 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 0 |
| Total lifecycle Carbon footprint | 55 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2.558295403917568 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.02661049627945983 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.05248796946830493 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 52.43989353835073 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 52 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.12123358490068836 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.1 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 55 |
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | Yes |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |

| | |
|---|---|
| EU RoHS Directive | Compliant By Exemption |
| 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 |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised