Product data sheet

Specifications

Safety discrete I/O expansion block, Modicon TM7, IP67, 8 DI/4 DO, 24 V DC, 2 A, M12 connector

TM7SDM12DTFS

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon TM7
Product or Component Type	Safety discrete I/O expansion block
Range Compatibility	Modicon LMC058 Modicon M258
Enclosure Material	Plastic
Bus type	TM7 bus
Discrete input number	8
Discrete input voltage	24 V DC
Discrete input logic	Positive logic (sink)
Discrete output number	8
Discrete output voltage	24 V DC

Complementary

Discrete input compatibility	8 at 24 V DC
Discrete input current	3.3 mA at 24 V DC
Input protection type	Protected against short-circuit Reverse polarity protection
Discrete output number	8 at 24 V DC
Safety level	SIL 3 IEC 61508 SIL 3 IEC 62061 PL = e EN 13849-1
Safety reliability data	PFD < 1E-5 MTTFd > 100 years PFH < 1E-9
Electrical connection	1 male connector M12 - B coding - 4 ways bus IN 1 female connector M12 - B coding - 4 ways bus OUT 8 female connectors M12 - A coding - 5 ways digital I/O 1 male connector M8 - 4 ways power IN 1 female connector M8 - 4 ways power OUT
Operating position	Vertical or horizontal position
Fixing Mode	By 2 screws
Local signalling	2 LEDs for power supply status 2 LEDs for safety status 12 LEDs for input/output status
Height	6.1 in (155 mm)
Width	2.09 in (53 mm)
Depth	1.7 in (42 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Product Weight	0.77 lb(US) (0.35 kg)

Environment

Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz IEC 61000-4-3 Electrical fast transient/burst immunity test, 2 kV power supply IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV input/output IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV power supply (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV power supply (differential mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV unshielded links (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV unshielded links (differential mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV shielded links (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV shielded links (differential mode) IEC 61000-4-5 Conducted RF disturbances IEC 61000-4-6 Conducted and radiated emissions CISPR 11
IP Degree of Protection	IP67
Marking	CE
Product certifications	CULus
Ambient air temperature for operation	14…140 °F (-10…60 °C)
Ambient air temperature for storage	-13…185 °F (-25…85 °C)
Relative humidity	5…95 % without condensation or dripping water
Operating altitude	0...6561.68 ft (0...2000 m)
Pollution degree	2
Vibration resistance	7.5 mm 2…8 Hz) IEC 60721-3-5 Class 5M3 2 gn 8…200 Hz) IEC 60721-3-5 Class 5M3 4 gn 200…500 Hz) IEC 60721-3-5 Class 5M3
Shock resistance	30 gn 11 msIEC 60721-3-5 Class 5M3

Ordering and shipping details

Category	US1PC5218360
Discount Schedule	PC52
GTIN	3595864128214
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.772 in (4.500 cm)
Package 1 Width	2.165 in (5.500 cm)
Package 1 Length	6.890 in (17.500 cm)
Package weight(Lbs)	12.804 oz (363.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	30

Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	25.618 lb(US) (11.620 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**79 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**20 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**59 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.5 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**10**
Circularity Profile	**End of Life Information**
Take-back	**No**