

Product data sheet

Specifications



counter module, Modicon TM3, high speed, 2 channels HSC event management, 10 inputs, 8 outputs, screw

TM3XFHSC202

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

Main

Range of Product	Modicon TM3
Product or Component Type	Module hight speed counting
[Us] rated supply voltage	24 V DC external supply - 15...20 %)
Number of input channels	10
Number of output channels	8
Discrete I/O number	18
Range Compatibility	Modicon M262

Complementary

Current consumption	100 mA 5 V DC 50 mA 24 V DC
Counting frequency	200 kHz
Discrete input voltage	24 V DC
Electrical circuit type	Standard input Latch input
Discrete input logic	Sink or source
Output voltage	24 V DC transistor output
Output voltage limits	30 V DC
Discrete output current	300 mA fast output Q0...Q7)
Discrete output logic	Source
Output protection type	Against overload and short-circuits
Reset	Automatic reset
Local signalling	1 LED I/O 1 LED RUN 1 LED ERR
Mounting support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 plate or panel with fixing kit
Services	HSC simple One shot/Modulo HSC main single phase One shot/Modulo/Event counting HSC main dual phase Modulo/Free-large Period meter Edge to Edge, Edge to Opposite
Counting mode	2 main expert function (main counting function, frequency meter, period meter) Max 8 simple counting function
Event management	8 maximum per PLC <= 100 µs Thresholds < 10 µs

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Height	3.5 in (90 mm)
Depth	3.3 in (85 mm)
Width	1.5 in (39 mm)
Product Weight	5.3 oz (150 g)
DC supply voltage	24 V

Environment

Product Certifications	CSA cULus IACS E10 RCM CE UKCA EAC
Standards	CSA C22.2 No 142 ANSI/ISA 12-12-01 UL 1604 CSA C22.2 No 213 EN/IEC 61131-2:2007 UL 508
Resistance to electrostatic discharge	8 kV in air EN/IEC 61000-4-2 4 kV on contact EN/IEC 61000-4-2
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 80 MHz...1 GHz EN/IEC 61000-4-3 2.7 V/m (3 V/m) 1.4 GHz...2 GHz EN/IEC 61000-4-3 0.9 V/m (1 V/m) 2 GHz...3 GHz EN/IEC 61000-4-3
Resistance to fast transients	2 kV alimentation cableEN/IEC 61000-4-4 1 kV Ethernet lineEN/IEC 61000-4-4 1 kV serial linkEN/IEC 61000-4-4 1 kV inputEN/IEC 61000-4-4 1 kV transistor outputEN/IEC 61000-4-4
Resistance to conducted disturbances	10 V 0.15...80 MHz EN/IEC 61000-4-4
Electromagnetic emission	Conducted emissions 120...69 dBμV/m QP10...150 kHz EN/IEC 55011 Conducted emissions 63 dBμV/m QP1.5...30 MHz EN/IEC 55011 Radiated emissions 40 dBμV/m class A30...230 MHz EN/IEC 55011 Conducted emissions 79...63 dBμV/m QP150...1500 kHz EN/IEC 55011 Radiated emissions 47 dBμV/m class A230...1000 MHz EN/IEC 55011
Ambient Air Temperature for Operation	-4...140 °F (-20...60 °C) horizontal installation -4...122 °F (-20...50 °C) vertical installation
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative humidity	10...95 %, without condensation in operation) 10...95 %, without condensation in storage)
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0...9842.5 ft (0...3000 m)
Vibration resistance	3.5 mm 2...8.4 Hz DIN rail 1 gn 8.4...200 Hz DIN rail 3.5 mm 2...8.4 Hz panel 1 gn 8.4...200 Hz panel
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	0MSX

GTIN	3606489604264
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.953 in (7.500 cm)
Package 1 Width	4.134 in (10.500 cm)
Package 1 Length	4.961 in (12.600 cm)
Package weight(Lbs)	8.007 oz (227.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	18
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	10.498 lb(US) (4.762 kg)

Contractual warranty

Warranty (in months)	18
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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	146 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	128 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	8b63a3a6-4381-4887-9a7a-c6c37a7e7339
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains 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
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Use Again



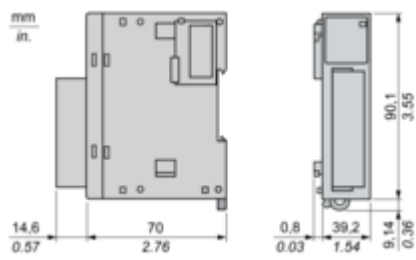
Repack and remanufacture

Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

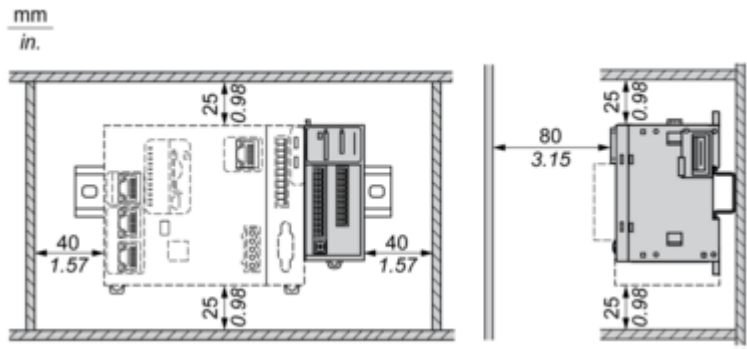
Dimensions

Side and Front Views

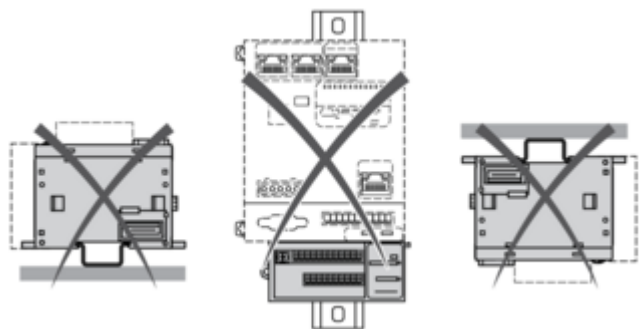


Mounting and Clearance

Spacing Requirements



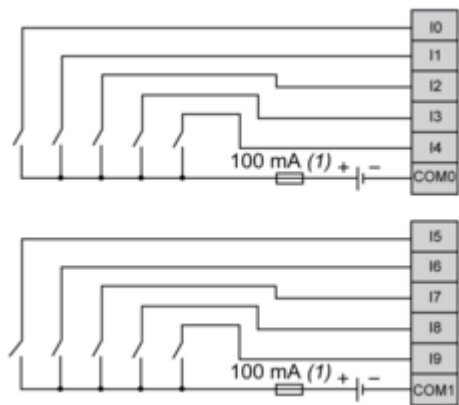
Incorrect Mounting



Connections and Schema

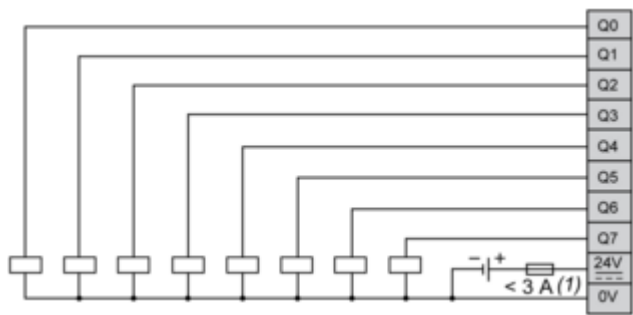
Wiring Diagram

Wiring Inputs



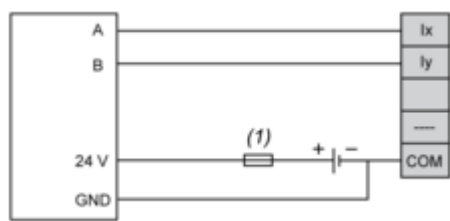
(1) : Type T fuse

Wiring Outputs



(1) : Connect an appropriate type T fuse for the load, not to exceed 3 A

Encoder Wiring



(1) : Refer to the encoder documentation for fuse sizing