

# Product data sheet

Specifications



counter module, Modicon TM3, high speed, 2 channels HSC, 10 inputs, 8 outputs, spring

TM3XHSC202G

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

## Main

Range of Product	Modicon TM3
Product or Component Type	Module hight speed counting
Range Compatibility	Modicon M262
[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

## 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	No event Thresholds < 10 µs
Height	3.5 in (90 mm)

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

Depth	3.3 in (85 mm)
Width	1.5 in (39 mm)
Product Weight	5.3 oz (150 g)

## Environment

Product Certifications	CE cULus IACS E10 RCM 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 EN/IEC 61010-2-201
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 cable EN/IEC 61000-4-4 1 kV Ethernet line EN/IEC 61000-4-4 1 kV serial link EN/IEC 61000-4-4 1 kV input EN/IEC 61000-4-4 1 kV transistor output EN/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 dB <sub>P</sub> V/m QP10...150 kHz EN/IEC 55011 Conducted emissions 63 dB <sub>P</sub> V/m QP1.5...30 MHz EN/IEC 55011 Radiated emissions 40 dB <sub>P</sub> V/m class A30...230 MHz EN/IEC 55011 Conducted emissions 79...63 dB <sub>P</sub> V/m QP150...1500 kHz EN/IEC 55011 Radiated emissions 47 dB <sub>P</sub> V/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	3606489604271
Returnability	No

---

Country of origin ID

## Packing Units

---

Unit Type of Package 1 PCE

---

Nbr. of units in pkg. 1

---

Package 1 Height 2.83 in (7.2 cm)

---

Package 1 Width 4.61 in (11.7 cm)

---

Package 1 Length 5.00 in (12.7 cm)

---

Package weight(Lbs) 7.5 oz (214.0 g)

---

Unit Type of Package 2 S03

---

Number of Units in Package 2 18

---

Package 2 Height 11.81 in (30.0 cm)

---

Package 2 Width 11.81 in (30.0 cm)

---

Package 2 Length 15.75 in (40.0 cm)

---

Package 2 Weight 9.9 lb(US) (4.5 kg)



## 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

Carbon footprint (kg CO2 eq, Total Life cycle)	140
--	-----

Environmental Disclosure	<a href="#">Product Environmental Profile</a>
--------------------------	---

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
--	-----

Packaging without single use plastic	Yes
--------------------------------------	-----

<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
-----------------------------------	--

SCIP Number	8b63a3a6-4381-4887-9a7a-c6c37a7e7339
-------------	--------------------------------------

REACH Regulation	<a href="#">REACH Declaration</a>
------------------	-----------------------------------

California proposition 65	<b>WARNING:</b> 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 <a href="#">www.P65Warnings.ca.gov</a>
---------------------------	--

PVC free	Yes
----------	-----

## Use Again

### Repack and remanufacture

Circularity Profile	<a href="#">End of Life Information</a>
---------------------	---

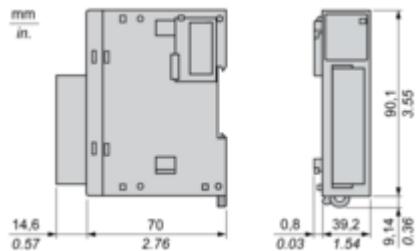
Take-back	No
-----------	----

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
------------	--

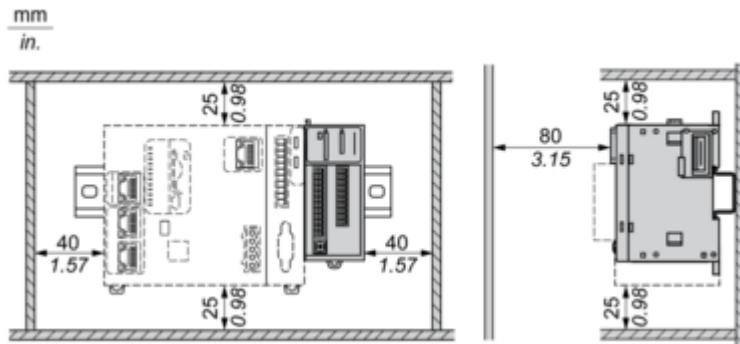
## Dimensions Drawings

## Dimensions

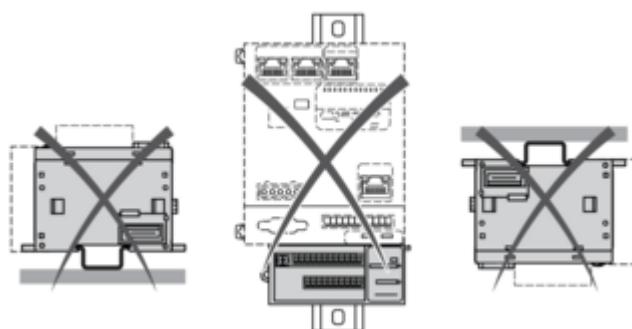
## Side and Front Views



## Mounting and Clearance

Spacing Requirements

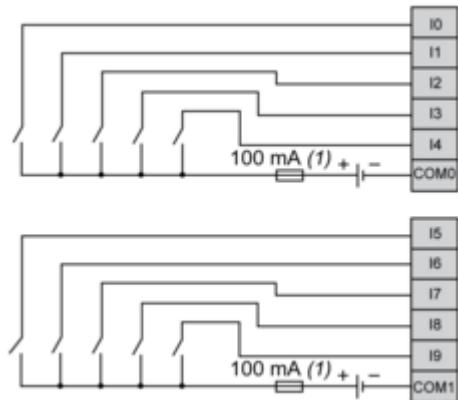
Incorrect Mounting



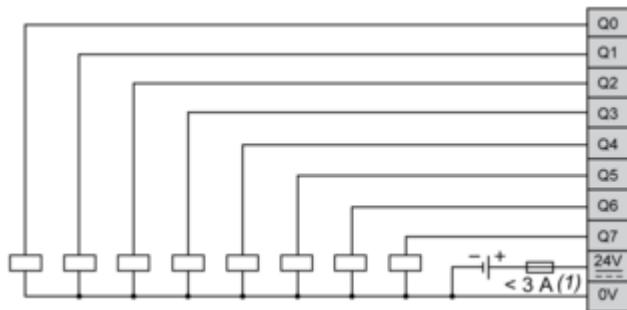
## Connections and Schema

Wiring Diagram

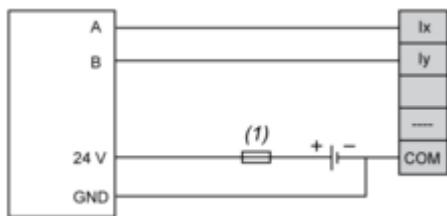
## Wiring Inputs



(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