Product data sheet

Specifications



Power distribution module, Modicon TM7, supply 24 V, 15 W

TM7SPS1A

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon TM7
Product or Component Type	Power distribution module
Product Compatibility	Motion controller Logic controller
Range Compatibility	Modicon LMC058 Modicon M258
[Us] rated supply voltage	24 V DC

Complementary

Input current	750 mA
Maximum power dissipation in W	3 W
Protection Type	Internal fuse not accessible
Local signalling	2 LEDs sensor/actuator power supply status
Nominal power	15 W
Operating position	Any position
Fixing Mode	By 2 screws
Electrical connection	1 male + 1 female connectors M8 power supply) 1 male + 1 female connectors M12 TM7 bus)
Height	3.9 in (99 mm)
Width	0.5 in (12.5 mm)
Depth	3.0 in (75 mm)
Product Weight	0.42 lb(US) (0.19 kg)

Environment

IP Degree of Protection	IP20
Marking	CE
Product certifications	C-tick ATEX II 3g EEx nA II T5 GOST-R CURus
Standards	IEC 61131-2
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
Operating altitude	0...6561.68 ft (0...2000 m)

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

Pollution degree	2
Vibration resistance	7.5 mm constant amplitude 2…8 Hz) IEC 60721-3-5 Class 5M3 2 gn constant acceleration 8…200 Hz) IEC 60721-3-5 Class 5M3 4 gn constant acceleration 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	US1PC1222532
Discount Schedule	PC12
GTIN	3595864093239
Returnability	Yes
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	2.323 in (5.900 cm)
Package 1 Length	4.134 in (10.500 cm)
Package weight(Lbs)	7.478 oz (212.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	11.909 lb(US) (5.402 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	**80 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**12 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]	**68 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 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

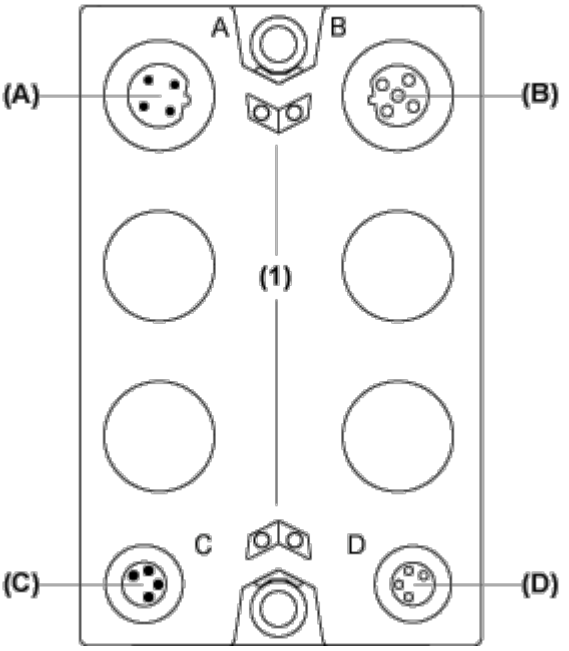
Repack and remanufacture

Recyclability potential, in %	**10**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Presentation

TM7 Power Distribution Block (PDB)

Description



(A) TM7 bus IN connector

(B) TM7 bus OUT connector

(C) 24 Vdc power IN connector

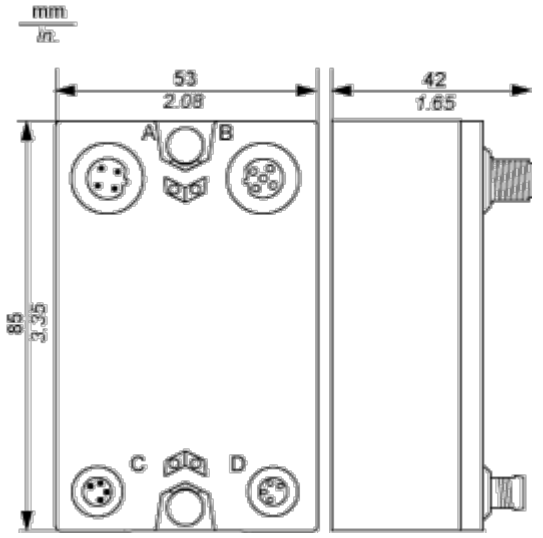
(D) 24 Vdc power OUT connector

(1) Status LEDs

Dimensions Drawings

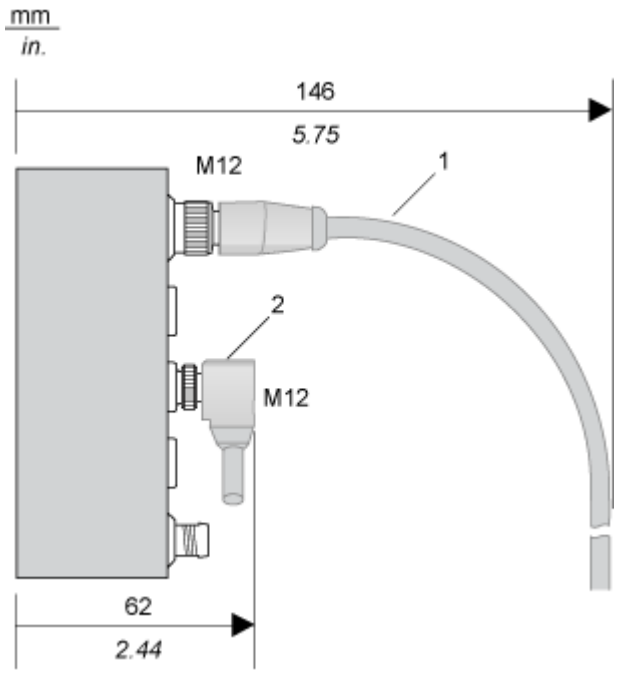
TM7 Block, Size 1

Dimensions



Mounting and Clearance

Spacing Requirements

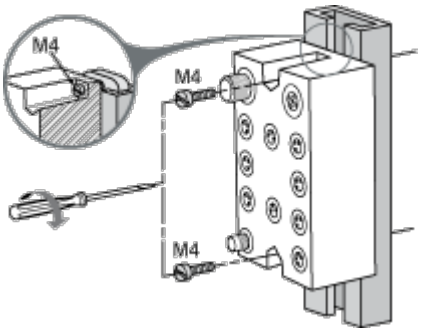


1 Straight cable

2 Elbowed cable

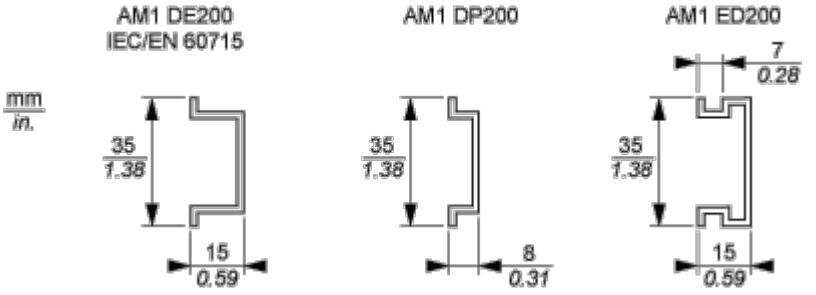
Installation Guidelines

TM7 Block on an Aluminium Frame



NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

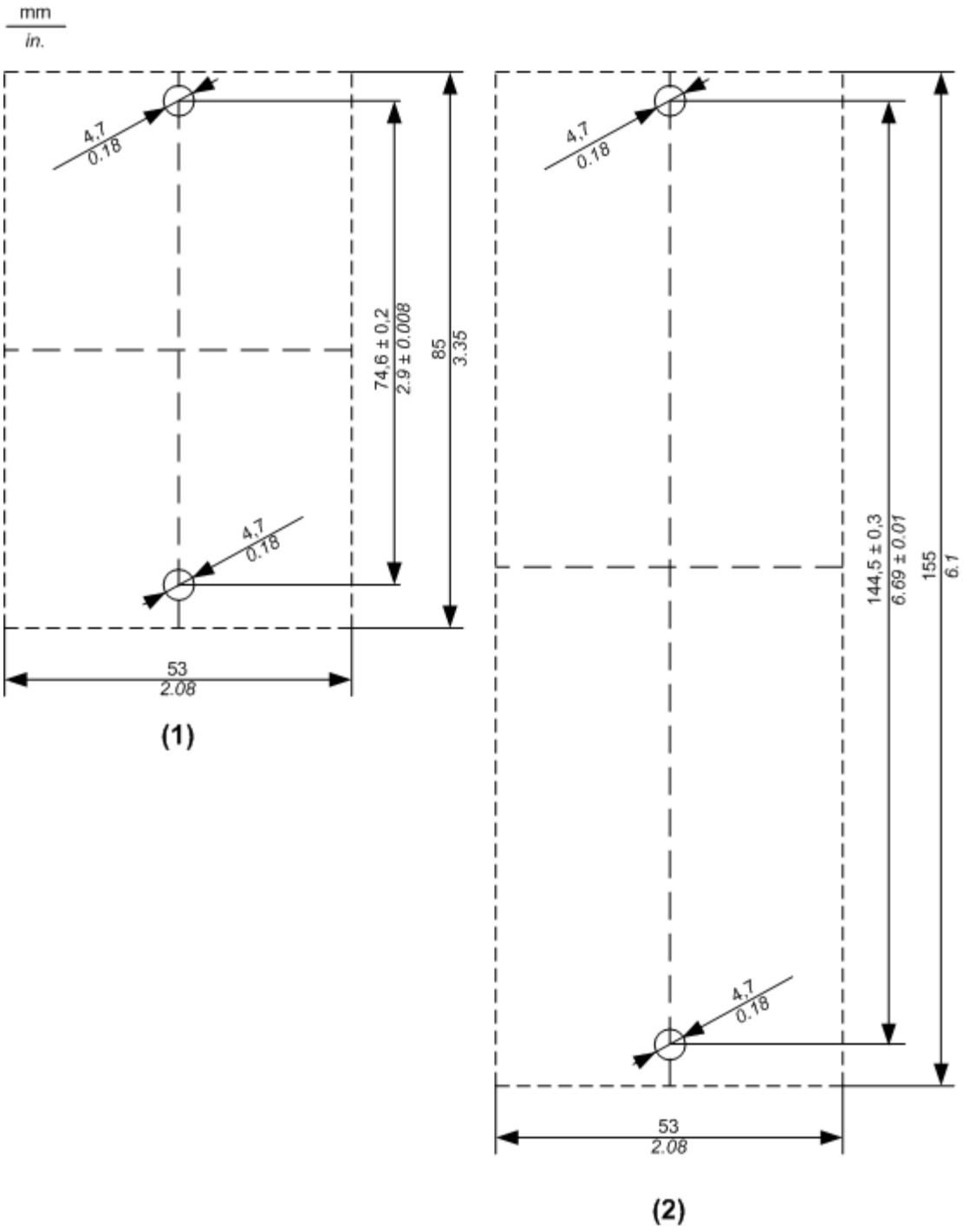
TM7 Block on a DIN Rail



NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

TM7 Block Directly on the Machine

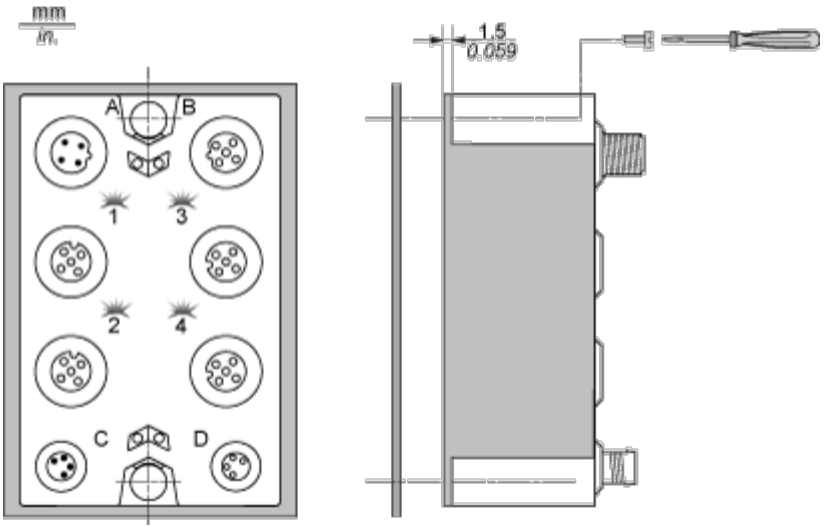
Drilling template of the block:



(1) Size 1

(2) Size 2

The thickness of the base plate should be taken into consideration when defining the screw length.

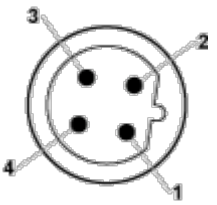
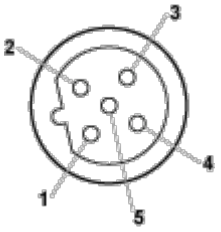


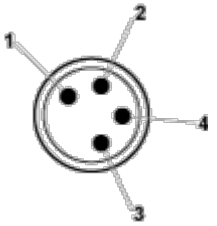
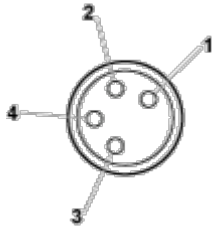
NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

Connections and Schema

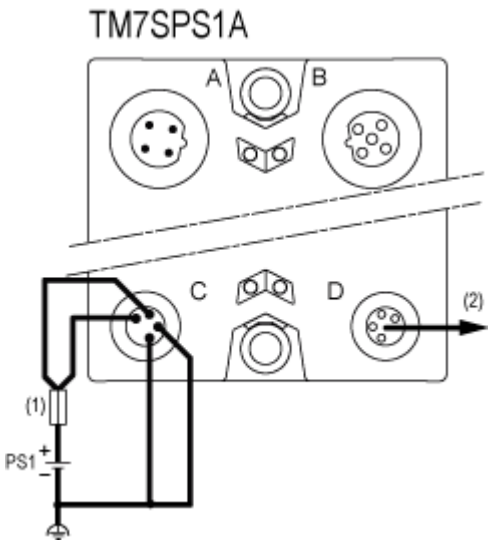
Wiring Diagram

Pin Assignments

TM7 bus IN connector (A)	Pin	Designation	TM7 bus OUT connector (B)
	1	TM7 V+	
	2	TM7 Bus Data	
	3	TM7 0V	
	4	TM7 Bus Data	
	5	N.C.	

Power IN connector (C)	Pin	Designation	Power OUT connector (D)
	1	24 Vdc Main power	
	2	24 Vdc Main power	
	3	0 Vdc	
	4	0 Vdc	

Wiring the Power Supply



(1) External fuse, Type T slow-blow, 1 A minimum, 4 A maximum, 250 V

(2) Maximum current 4 A

PS1 External isolated main power supply, 24 Vdc