



Main

Range of product	Modicon TM7
Product or component type	Power distribution module
Range compatibility	Modicon LMC058 Modicon M258
Product compatibility	Motion controller Logic controller
Product specific application	Supply 24 V DC I/O modules and bus TM7
[Us] rated supply voltage	24 V
Supply circuit type	DC
Electrical connection	1 male + 1 female connectors M12 for TM7 bus 1 male + 1 female connectors M8 for power supply

Complementary

Local signalling	2 LEDs for sensor/actuator power supply status
Nominal power	15 W
Operating position	Any position
Fixing mode	By 2 screws
Product weight	0.19 kg

Environment

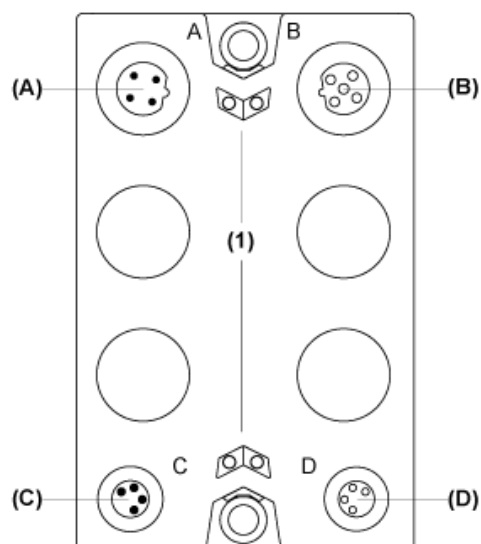
Standards	IEC 61131-2
Product certifications	C-Tick CURus GOST-R ATEX II 3g EEx nA II T5
Marking	CE
Ambient air temperature for operation	-10...60 °C
Ambient air temperature for storage	-25...85 °C
Relative humidity	5...95 % without condensation
Operating altitude	0...2000 m
Storage altitude	0...3000 m
Vibration resistance	4 gn constant acceleration (f = 200...500 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn constant acceleration (f = 8...200 Hz) conforming to IEC 60721-3-5 Class 5M3 7.5 mm constant amplitude (f = 2...8 Hz) conforming to IEC 60721-3-5 Class 5M3
Shock resistance	30 gn for 11 ms conforming to IEC 60721-3-5 Class 5M3
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 6 kV in contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	1 V/m (f = 2...2.7 Hz conforming to EN/IEC 61000-4-3 10 V/m (f = 0.08...2 Hz conforming to EN/IEC 61000-4-3
Resistance to fast transients	1 kV shielded cable conforming to EN/IEC 61000-4-4 1 kV input/output conforming to EN/IEC 61000-4-4 2 kV power supply conforming to EN/IEC 61000-4-4
Surge withstand	1 kV common mode conforming to EN/IEC 61000-4-5 0.5 kV differential mode conforming to EN/IEC 61000-4-5
Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR 11

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

TM7 Power Distribution Block (PDB)

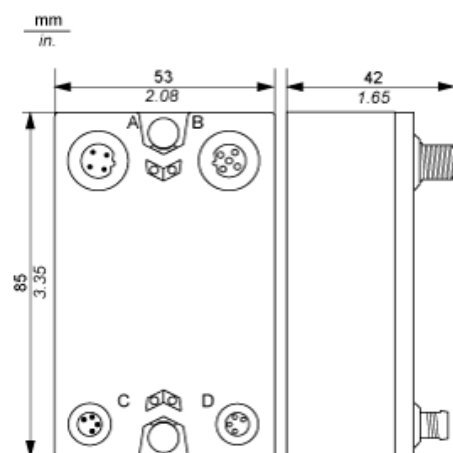
Description



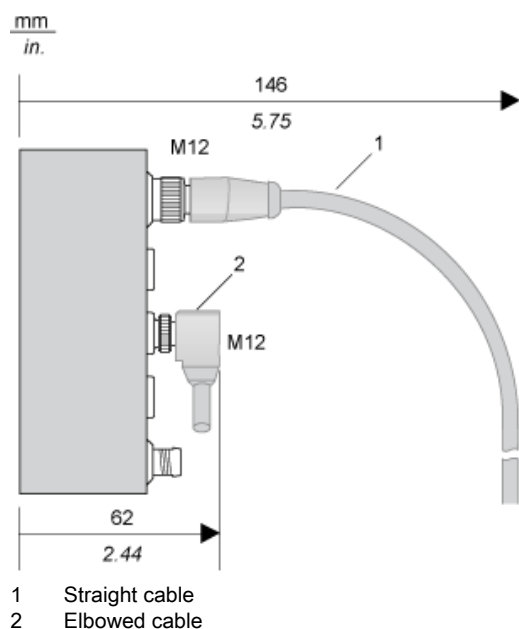
- (A) TM7 bus IN connector
- (B) TM7 bus OUT connector
- (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector
- (1) Status LEDs

TM7 Block, Size 1

Dimensions

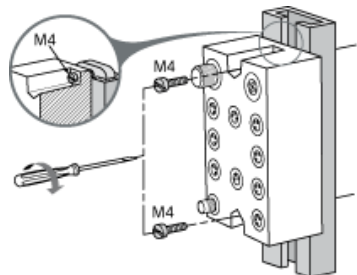


Spacing Requirements



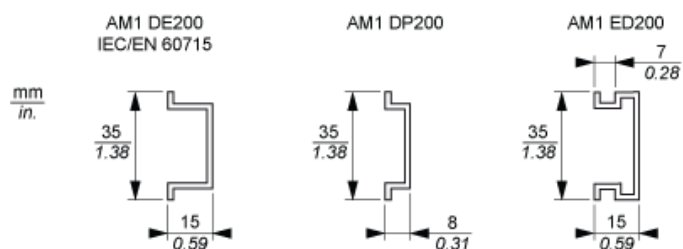
Installation Guidelines

TM7 Block on an Aluminium Frame



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

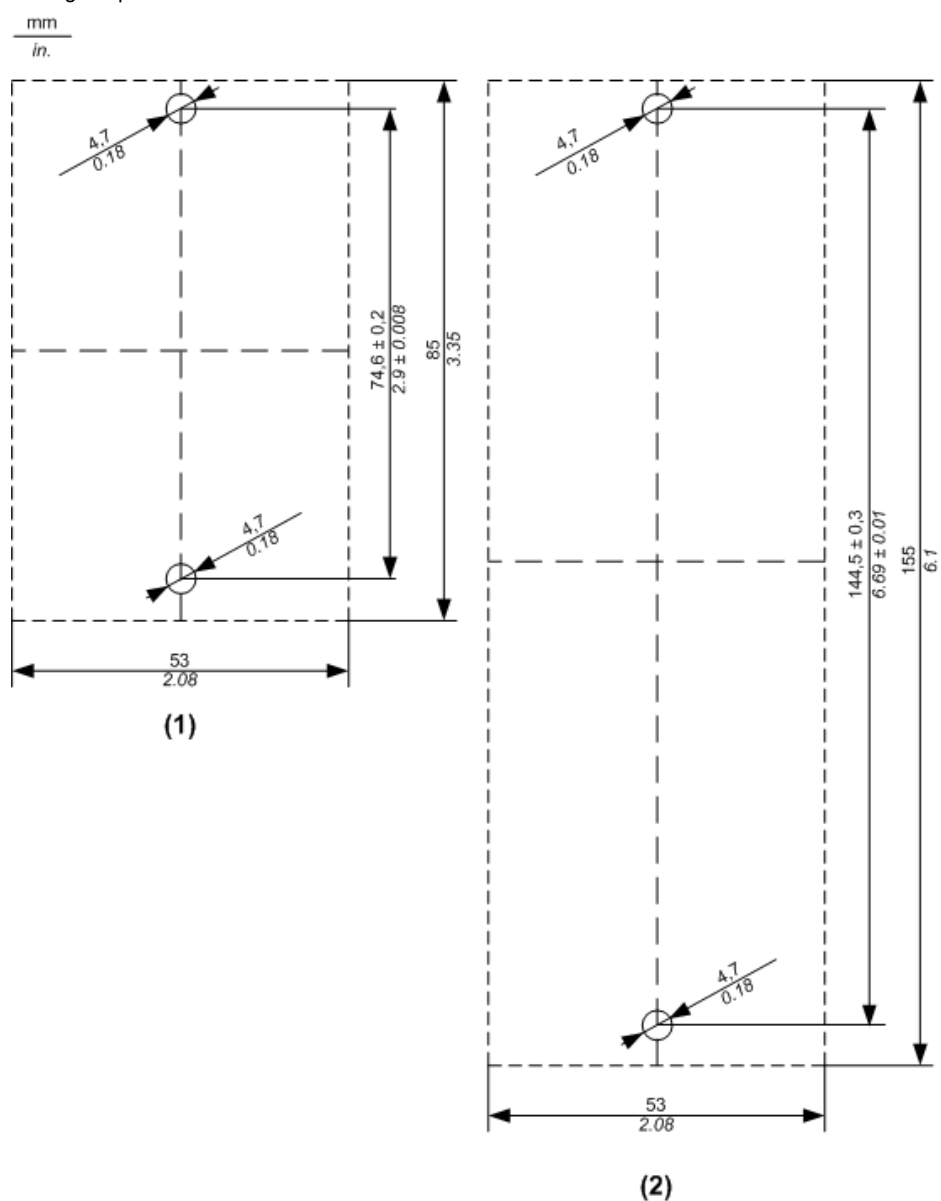
TM7 Block on a DIN Rail



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

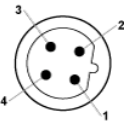
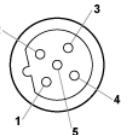
The thickness of the base plate should be taken into consideration when defining the screw length.

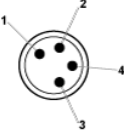
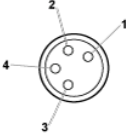


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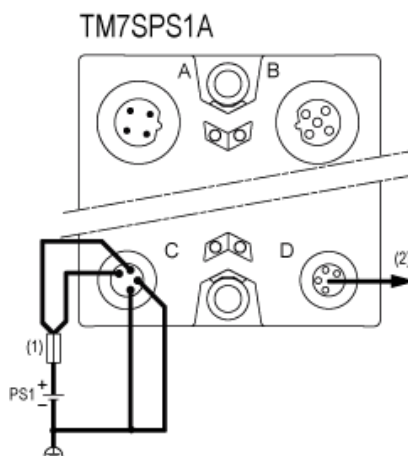
Wiring Diagram

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