Product data sheet
Characteristics

TM5SE1IC01024
Counter module, Modicon TM5, 1 HSC incremental, 100 KHz



Main

Range of product	Modicon TM5
Product or component type	Counter module
Product specific application	Downcounting Frequency generator Upcounting Period measurement Frequency meter Axis following with encoder
Function of module	2 x 24 V DC auxiliary inputs 24 V DC encoder power supply
Discrete input number	1
Counting frequency	100 KHz
Encoder type	1 incremental encoder
Product compatibility	Logic controller Motion controller
Range compatibility	Modicon LMC058 Modicon M258

Complementary

Counter inputs resolution	16 bits/32 bits
Maximum cycle time	2 Ms
Input compatibility	1 incremental encoder (24 V)
Isolation	500 Vrms AC insulation between channel and bus
Discrete input logic	Sink
Discrete input voltage	24 V DC
Discrete input current	3.3 MA at 24 V
Input resistance	7.19 KOhm
Current consumption	2 mA at 5 V DC bus 58 mA at 24 V DC input/output
Maximum power dissipation in W	1.41 W
Marking	CE
Net weight	0.025 Kg
DC supply voltage	24 V
Height	99 Mm
Width	12.5 Mm
Depth	75 Mm

Environment

Standards	IEC 61131-2 CSA C22.2 No 213 CSA C22.2 No 142 UL 508
Product certifications	CSA[RETURN]C-Tick[RETURN]GOST-R[RETURN]cULus
Ambient air temperature for operation	0…55 °C without derating (horizontal installation) 0…60 °C with derating factor (horizontal installation) 0…50 °C (vertical installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	5…95 % without condensation
IP degree of protection	IP20 conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...2000 m
Storage altitude	0…3000 M
Vibration resistance	1 gn at 8.4…150 Hz on DIN rail 3.5 mm at 5…8.4 Hz on DIN rail
Shock resistance	15 gn for 11 ms
Resistance to electrostatic discharge	4 KV on contact conforming to IEC 61000-4-2 8 KV in air conforming to IEC 61000-4-2
Resistance to electromagnetic fields	1 V/M 2...2.7 GHz conforming to IEC 61000-4-3 10 V/M 80...2000 MHz conforming to IEC 61000-4-3
Resistance to fast transients	1 KV (I/O) conforming to IEC 61000-4-4 1 KV (shielded cable) conforming to IEC 61000-4-4 2 KV (power lines) conforming to IEC 61000-4-4
Surge withstand	0.5 KV differential mode conforming to IEC 61000-4-5 1 KV common mode conforming to IEC 61000-4-5
Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR 11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.900 Cm
Package 1 Width	5.900 Cm
Package 1 Length	10.400 Cm
Package 1 Weight	38.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	97
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.036 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	58 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.279147701958784
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.013305248139729916
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.026243984734152466
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	56.8771152992881
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	57 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes

Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.06061679245034418
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	58
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised