Product data sheet
Characteristics

TM5CSLC400FS
Controller system, Modicon TM5 Safety, Safe logic CPU, SERCOS III interface, 100 nodes



Main

Range of product	Modicon TM5
Product or component type	Controller system
Device application	Safety logic controller
Reverse polarity protection	Yes

Complementary

Communication network type	SERCOS III (Ethernet)
Transmission rate	100 Mbit/s for full duplex
Cycle time	1 Ms
Realtime clock	With non-volatile memory
Number of devices	2 shielded RJ45 1 memory key slot
Function available	Support max 100 safety nodes
Maximum cable distance between devices	100 M between station
Rated voltage	24 V -15...20 %
Input protection type	Integrated fuse (not interchangeable)
Power consumption in W	4.3 W
Type of cooling	Fanless
Marking	CE
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to ISO 13849-1 category 4
Safety reliability data	PFD < 1E-5 PFH < 1E-9 MTTFd > 100 years
Local signalling	1 LED (green or orange) for application run or machine expert - safety debug mode 1 LED (green) for authorization status 1 LED (orange) for configuration status (Ready) 1 LED (orange) for firmware status 1 LED (red) for boot status / FS status 1 LED (orange) for memory key status
Colour	Red
Width	62.5 Mm
Height	99 Mm
Depth	75 Mm
Net weight	0.208 Kg

Environment

Ambient air temperature for operation	0…45 °C (vertical installation) 0…55 °C (horizontal installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	5…95 % without condensation
IP degree of protection	IP20
Operating altitude	0...2000 m
Standards	EN 13849-1 IEC 61131-2 IEC 61508 IEC 61511 IEC 62061
Product certifications	cULus

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.800 Cm
Package 1 Width	12.000 Cm
Package 1 Length	17.200 Cm
Package 1 Weight	309.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	9
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.392 Kg

Offer Sustainability

Total lifecycle Carbon footprint	204 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18.6382716049
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0399968486
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0800420403
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	184.55
Carbon footprint of the use phase [B2, B3, B4, B6]	185 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.1925565302
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	204
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
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 and

Contractual warranty

Warranty (in months)	18

Product Life Status :	Commercialised