Product data sheet
Characteristics

170AAI03000
distributed analog input Modicon Momentum - 8 Input



Main

Range of product	Modicon Momentum automation platform
Product or component type	Analogue input base
Analogue input number	8

Complementary

Data format	Full 16 bits signed
Absolute accuracy error	+/- 0.13 % full scale 25 °C 1...5 V +/- 0.19 % full scale 60 °C 1...5 V +/- 0.21 % full scale 25 °C +/- 5 V +/- 0.26 % full scale 60 °C +/- 5 V +/- 0.27 % full scale 25 °C +/- 10 V +/- 0.27 % full scale 25 °C 4...20 mA +/- 0.32 % full scale 25 °C +/- 20 mA +/- 0.32 % full scale 60 °C +/- 10 V +/- 0.38 % full scale 60 °C 4...20 mA +/- 0.41 % full scale 60 °C +/- 20 mA
Conversion time	12 Ms 8
Permissible common mode voltage	100 V 47...63 Hz DC between channels to ground 250 V 47...63 Hz AC between channels to ground
Common mode rejection	> 80 dB between channels to ground
External power requirement	< 382 mA DC 20.4...28.8 V DC 24 V DC
Reverse polarity protection	Internal
Analogue input type	Differential +/-20 mA Differential 4...20 mA Differential +/- 10 V Differential +/- 5 V Differential 1...5 V Differential +/- 20 mA
Analogue input resolution	14 bits + sign +/- 20 mA 15 bits + sign 4...20 mA 14 bits + sign +/- 10 V 14 bits + sign +/- 5 V 15 bits + sign 1...5 V
Input impedance	250 kOhm > 0.1 kOhm
Common mode rejection	> 80 dB
Isolation between channels	+/- 200 V
Isolation between channels and bus	500 V AC
Isolation between channels and ground	500 V AC
Electrical connection	2 connectors for removable terminal blocks
Local signalling	1 LED green for ready 8 LEDs for channel status

Height	125 Mm
Width	141.5 Mm
Depth	47.5 Mm
Net weight	0.215 Kg

Environment

Protective treatment	TC
Marking	CE
Product certifications	FM Class 1 Division 2[RETURN]CSA[RETURN]UL
Standards	EN 50081-2 IEC 1131
Ambient air temperature for operation	0…60 °C
Ambient air temperature for storage	-40…85 °C
Relative humidity	0…95 % without condensation
Operating altitude	<= 5000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 Cm
Package 1 Width	18.000 Cm
Package 1 Length	26.000 Cm
Package 1 Weight	400.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.421 Kg

Offer Sustainability

Recyclability potential, in %	4
Total lifecycle Carbon footprint	271 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	129.1558322294498
Carbon footprint of the manufacturing phase [A1 to A3]	129 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1194636265917277
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2196800274767913
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	141.10219037035654
Carbon footprint of the use phase [B2, B3, B4, B6]	141 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.49481732134226175
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	271
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	441d5619-6318-4bbf-ac83-96d05888ee7e
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which

End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised