Product data sheet
Characteristics

170AAI14000
distributed analog input Modicon Momentum - 16 Input



Main

Range of product	Modicon Momentum automation platform
Product or component type	Analogue input base
Analogue input number	16
Type of filter	Low pass input filter 10 kHz

Complementary

Data format	Full 16 bits signed
Absolute accuracy error	+/- 0.15 % of full scale 25 °C +/- 10 V +/- 0.15 % of full scale 25 °C +/- 5 V +/- 0.25 % full scale 25 °C 4...20 mA +/- 0.25 % full scale 60 °C +/- 10 V +/- 0.25 % full scale 60 °C +/- 5 V +/- 0.45 % full scale 60 °C 4...20 mA
Full scale	10 V +/- 10 V 16 mA 4...20 mA 5 V +/- 5 V
Update time	25 Ms
Permissible common mode voltage	100 V 47...63 Hz DC between channels to ground 250 V 47...63 Hz AC between channels to ground
External power requirement	+/- 30 V DC
Reverse polarity protection	Internal
Analogue input type	Single ended 4...20 mA Single ended +/- 10 V Single ended +/- 5 V
Analogue input resolution	12 bits 4...20 mA 12 bits + sign +/- 10 V 12 bits + sign +/- 5 V
Input impedance	< 0.25 Ohm > 2200 kOhm
Temperature drift	30 %oFS/°C +/- 10 V 60 %oFS/°C 4...20 mA
Typical current consumption	305 MA at 24 V DC
Power dissipation in W	5.55 W
Isolation between channels and ground	1780 V AC
Electrical connection	2 connectors for removable terminal blocks
Protection type	Internal 2 A slow-blow
Associated fuse rating	500 MA, fast blow
Local signalling	16 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	UL[RETURN]FM Class 1 Division 2[RETURN]CSA
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	384.000 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	3.850 Kg

Offer Sustainability

Recyclability potential, in %	4
Total lifecycle Carbon footprint	266 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	123.9895989402718
Carbon footprint of the manufacturing phase [A1 to A3]	124 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.11468508152805859
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.21089282637771967
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]	0.4750246284885713
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	266
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