Product data sheet
Characteristics

BMXDDI1604T
discrete input module, Modicon X80, 16 inputs, 125V DC positive, extended temperature



Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input voltage	125 V DC for isolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	16 isolated at 125 V DC
Discrete input current	2.4 MA at 125 V DC
Voltage state 1 guaranteed	>= 88 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 0.5 mA
Input impedance	50000 Ohm
Paralleling of inputs	Yes
Insulation resistance	> 10 MOhm 500 V DC
DC typical filtering time	5 Ms
DC maximum filtering time	9 Ms
Sensor power supply	: 100…150 V
Typical current consumption	76 MA DC
Current consumption	<= 107 mA at 3.3 V DC
Power dissipation in W	3.2 W 5.0 W at 60 °C 6.7 W at 50 °C 8.5 W at 40 °C
Isolation between channels and bus	1500 V for 1 minute
Hot swapping fallback	Yes
MTBF reliability	888402 H
Voltage detection threshold	< 80 V DC sensor fault > 100 V DC sensor OK
Local signalling	1 LED (green) for module operating (RUN) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR) 1 LED (red) for module I/O
Height	103.7 Mm
Width	32 Mm
Depth	86 Mm
Net weight	0.115 Kg

Environment

IP degree of protection	IP20
Protective treatment	Standard version
Marking	CE UKCA CULus RCM EAC
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	2500 V AC at 50/60 Hz 1 minute, primary/secondary
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Relative humidity	5…95 % at 55 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating
Pollution degree	2
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
Vibration resistance	3 gn
Shock resistance	30 gn

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 Cm
Package 1 Width	11.200 Cm
Package 1 Length	11.800 Cm
Package 1 Weight	147.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	2.580 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	32 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18.7821454545
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0192222545
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0391429818
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	12.8918199067
Carbon footprint of the use phase [B2, B3, B4, B6]	13 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2608403636
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	32

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	3377ad7c-3df3-40dc-a26f-b9807ced8c10
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, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised