

Data sheet
IM 053CAN (053-1CA00)
Technical data

Order no.	053-1CA00
Type	IM 053CAN
Module ID	-

General information

Note	-
Features	16x Rx and 16x Tx PDOs 2x SDOs PDO-Linking PDO-Mapping: fix Up to 64 peripheral modules

Technical data power supply

Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.4...28.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	90 mA
Current consumption (rated value)	0.95 A
Inrush current	3.9 A
$I_{\Delta t}$	0.14 A ² s
Max. current drain at backplane bus	3 A
Max. current drain load supply	10 A
Power loss	3 W

Status information, alarms, diagnostics

Status display	yes
Interrupts	yes, parameterizable
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Supply voltage display	green LED
Service Indicator	-
Group error display	red LED
Channel error display	none

Hardware configuration

Racks, max.	1
Modules per rack, max.	64
Number of digital modules, max.	64
Number of analog modules, max.	64

Communication

Fieldbus	CANopen
Type of interface	CAN
Connector	Sub-D, 9-pin, male
Topology	Linear bus with bus termination at both ends

Electrically isolated	yes
Number of participants, max.	127
Node addresses	1 - 127
Transmission speed, min.	10 kbit/s
Transmission speed, max.	1 Mbit/s
Address range inputs, max.	128 Byte
Address range outputs, max.	128 Byte
Number of TxPDOs, max.	16
Number of RxPDOs, max.	16

Functionality MECHATROLINK-III slave

Supported profile	-
Supported transfer cycle	-
Cyclic data size per node	-
Max. Number of nodes	-
Supported communication method	-
Supported command "Cyclic"	-
Supported command "Event driven"	-
Supported command "Message"	-

Datasizes

Input bytes	-
Output bytes	-
Parameter bytes	-
Diagnostic bytes	-

Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	48.5 mm x 109 mm x 76.5 mm
Net weight	162.5 g
Weight including accessories	162.5 g
Gross weight	180 g

Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

Certifications

UL certification	yes
KC certification	yes