

Data sheet
IM 053DP (053-1DP00)
Technical data

Order no.	053-1DP00
Type	IM 053DP
Module ID	-

General information

Note	-
Features	DP-V0, DP-V1 244 byte input and 244 byte output data 244 byte parameter data Various diagnostics functions Integrated DC 24V power supply for power and electronic section supply of the periphery modules Status LEDs 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	yes, parameterizable
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	PROFIBUS-DP to EN 50170
Type of interface	RS485 isolated
Connector	Sub-D, 9-pin, female

Topology	Linear bus with bus termination at both ends
Electrically isolated	yes
Number of participants, max.	125
Node addresses	1 - 125
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Address range inputs, max.	244 Byte
Address range outputs, max.	244 Byte
Number of TxPDOs, max.	-
Number of RxPDOs, max.	-

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	160 g
Weight including accessories	160 g
Gross weight	177.5 g

Environmental conditions

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

Certifications

UL certification	yes
KC certification	yes