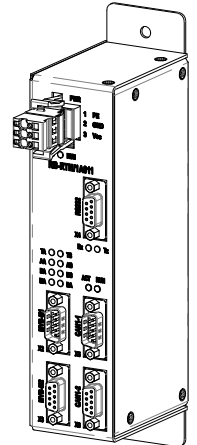


# RB-RTM/1A011

MVB / CAN converter

- 1 x MVB interface (in EMD version, doubled line)
- 1 x CAN interface with galvanic separation, concatenated connectors
- 1 x service interface RS232
- Power supply voltage 24 V DC
- Complies with EN 50155 standard
- MVB interface complies with IEC 61375-3-1 ed. 1 standard



## TECHNICAL DATA

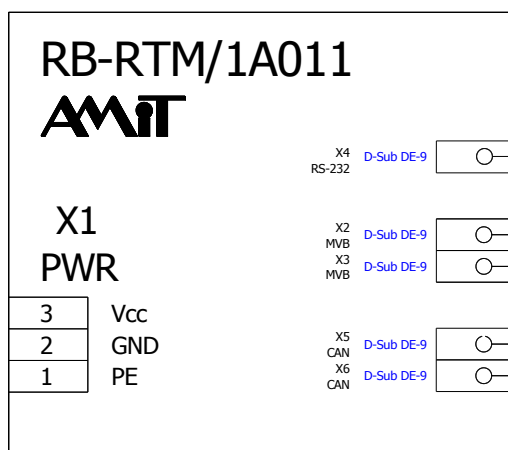
<b>MVB</b>	1 x (doubled line)
Classification	Class 1
Data communication rate	1.5 Mbps $\pm$ 0.01 %
Medium type	EMD
Galvanic separation	Yes *)
Connectors	2 x connector D-sub DE-9 (concatenation), connector fixing by M3 bolt
<b>CAN</b>	1 x
Data communication rate	Max. 1 Mbps $\pm$ 0.01 %
Galvanic separation	Yes *)
Connectors	2 x connector D-sub DE-9 (concatenation), connector fixing by UNC4-40 thread bolt
<b>RS232</b>	1 x service line
Galvanic separation	No
Connector	1 x connector D-sub DE-9, connector fixing by UNC4-40 thread bolt
<b>Power supply</b>	24 V DC +25 % / -30 %
Power consumption	Max. 0.1 A at 24 V DC
<b>Others</b>	
Ingress protection rate	IP20
Operation temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Mounting	2 x $\varnothing$ 6 mm hole
Weight	900 g
Dimensions (w x h x d)	(55 x 228 x 85) mm

\*) Dielectric strength of galvanic separation is 600 V AC / 1 minute. Insulation resistance is greater than 1 M $\Omega$ . Galvanic separation must not be used for dangerous voltage separation.

## ORDERING INFORMATION

<b>RB-RTM/1A011</b>	Converter, supplying connector counterpart, operation manual, insulation testing protocol, production test report, warranty certificate
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## RECOMMENDED DRAWING SYMBOL



### CONNECTORS

Connector	Meaning
X1	Power supply
X2	MVB, plug
X3	MVB, socket
X4	RS-232, socket
X5	CAN bus, plug
X6	CAN bus, socket

### CONNECTORS X5 AND X6 (CAN)

Pin	Signal	Meaning
1	-	Not used
2	CAN_L	CAN-L
3	CAN_GND	CAN-GND
4	-	Not used
5	CAN_SHLD	CAN-SHLD
6	GND	CAN-GND
7	CAN_H	CAN-H
8	-	Not used
9	(CAN_V+)	Not used
Shielding	SH_CAN	Connected to PE

### CONNECTOR X1 (POWER SUPPLY)

Pin	Signal	Meaning
1	PE	Module chassis.
2	GND	Power supply, ground
3	+24V	Power supply, +24 V DC

### CONNECTOR X2 AND X3 (MVB)

Pin	Signal	Meaning
1	A.Data_P	A line positive wire
2	A.Data_N	A line negative wire
3	-	Not used
4	B.Data_P	B line positive wire
5	B.Data_N	B line negative wire
6	A.Term_P	A line termination, positive pole
7	A.Term_N	A line termination, negative pole
8	B.Term_P	A line termination, positive pole
9	B.Term_N	B line termination, negative pole
Shielding	SH_MVB	Connected to PE

### CONNECTOR X4 (RS232)

Pin	Signal	Meaning
1	-	Not used
2	RS232_Tx	RS232 Tx
3	RS232_Rx	RS232 Rx
4	-	Not used
5	GND	Ground
6	-	Not used
7	-	Not used
8	-	Not used
9	-	Not used
Shielding	-	Connected to PE

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MVB / CAN converter

## MECHANICAL DIMENSIONS

