

Data sheet SM 232 (232-1BD51)

Technical data

Order no.	232-1BD51
Туре	SM 232
Concernation	
General information	
Note	-
Features	4 outputs Configurable Voltage, current
Current consumption/power loss	
Current consumption from backplane bus	75 mA
Power loss	1.8 W
Technical data analog outputs	
Number of outputs	4
Cable length, shielded	200 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	✓
Current consumption from load voltage L+ (without load)	60 mA
Voltage output short-circuit protection	×
Voltage outputs	✓
Min. load resistance (voltage range)	1 kOhm
Max. capacitive load (current range)	1 µF
Max. inductive load (current range)	30 mA
Output voltage ranges	-10 V +10 V +1 V +5 V 0 V +10 V
Operational limit of voltage ranges	+/-0.4% +/-0.8%
Basic error limit voltage ranges	+/-0.2% +/-0.4%
Destruction limit against external applied voltage	-
Current outputs	A
Max. in load resistance (current range)	500 Ohm
Max. inductive load (current range)	10 mH
Max. inductive load (current range)	12 V
Output current ranges	0 mA +20 mA +4 mA +20 mA -20 mA +20 mA
Operational limit of current ranges	+/-0.3% +/-0.8%
Basic error limit current ranges	+/-0.2% +/-0.5%
Destruction limit against external applied voltage	•
Settling time for ohmic load	0.05 ms
Settling time for capacitive load	0.5 ms
Settling time for inductive load	0.1 ms
Resolution in bit	12
Conversion time	0.45 ms / channel



Substitute value can be applied	no	A YASKAWA COMPANY
Output data size	8 Byte	
Status information, alarms, diagnostics		
Status display	none	
Interrupts		
Process alarm	yes	
Diagnostic interrupt	yes, parameterizable	
Diagnostic functions	yes	
Diagnostics information read-out	possible	
Supply voltage display	none	
Group error display	red SF LED	
Channel error display	none	
	none	
Isolation		
Between channels	-	
Between channels of groups to	-	
Between channels and backplane bus	1	
Between channels and power supply	s.	
Max. potential difference between circuits	-	
Max. potential difference between inputs (Ucm)	-	
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 60 V	
Max. potential difference between inputs and Mana (Ucm)		
Max. potential difference between inputs and Mintern (Uiso)	-	
Max. potential difference between Mintern and outputs	-	
Insulation tested with	DC 500 V	
Datasizes		
Input bytes	0	
Output bytes	8	
Parameter bytes	8	
Diagnostic bytes	4	
Housing		
Material	PPE / PA 6.6	
Mounting	Profile rail 35 mm	
Mechanical data		
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	
Weight	100 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
	20 0 10 10 0	
Certifications		
UL508 certification	yes	