Data sheet
EM 123 (123-4EJ20)

Technical data

Order no.	123-4EJ20
Type	EM 123
General information	
Note	-
Features	16 inputs AC/DC 60...230 V 8 relay outputs
Current consumption/power loss	
Current consumption from backplane bus	320 mA
Power loss	4.6 W
Technical data digital inputs	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	-
Current consumption from load voltage L+ (without load)	-
Rated value	AC/DC 60...230 V
Input voltage for signal "0"	AC/DC 0...35 V
Input voltage for signal "1"	AC/DC 60...230 V
Input voltage hysteresis	-
Frequency range	-
Input resistance	-
Input current for signal "1"	2 mA
Connection of Two-Wire-BEROs possible	-
Max. permissible BERO quiescent current	-
Input delay of "0" to "1"	25 ms
Input delay of "1" to "0"	25 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	-
Initial data size	2 Byte
Technical data digital outputs	
Number of outputs	8
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 30 V/ AC 230 V
Reverse polarity protection of rated load voltage	-
Current consumption from load voltage L+ (without load)	-
Output current at signal "1", rated value	5 A
Output delay of "0" to "1"	10 ms

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Output delay of "1" to "0"	5 ms
Minimum load current	-
Lamp load	-
Parallel switching of outputs for redundant control of a load	not possible
Parallel switching of outputs for increased power	not possible
Actuation of digital input	-
Switching frequency with resistive load	max. 0.33 Hz
Switching frequency with inductive load	-
Switching frequency on lamp load	-
Internal limitation of inductive shut-off voltage	-
Short-circuit protection of output	-
Trigger level	-
Number of operating cycle of relay outputs	10^7
Switching capacity of contacts	-
Output data size	1 Byte

Status information, alarms, diagnostics

Status display	green LED per channel
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	none
Group error display	none
Channel error display	none

Isolation

Between channels	-
Between channels of groups to	8
Between channels and backplane bus	yes
Insulation tested with	DC 500 V

Datasizes

Input bytes	2
Output bytes	2
Parameter bytes	0
Diagnostic bytes	0

Housing

Material	PPE / PA 6.6
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	101.6 mm x 76 mm x 48 mm
Net weight	244 g
Weight including accessories	-
Gross weight	-

Environmental conditions

Operating temperature	0 °C to 60 °C

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Storage temperature	-25 °C to 70 °C

Certifications

UL certification	yes
KC certification	-

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