

Data sheet EM 123 (123-4EL01)

Technical data

Order no.	123-4EL01
Туре	EM 123
General information	
Note	-
Features	16 inputs/ 16 outputs Isolated
Current consumption/power loss	
Current consumption from backplane bus	110 mA
Power loss	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	DC 24 V
Input voltage for signal "0"	DC 05 V
Input voltage for signal "1"	DC 1528.8 V
Input voltage hysteresis	-
Frequency range	-
Input resistance	-
Input current for signal "1"	7 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	3 ms
Input delay of "1" to "0"	3 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	IEC 61131-2, type 1
Initial data size	2 Byte
Technical data digital outputs	
Number of outputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	-
Current consumption from load voltage L+ (without load)	30 mA
Output current at signal "1", rated value	0.5 A
Output delay of "0" to "1"	max. 100 µs



Minimum load current	Output delay of "1" to "0"	max. 350 µs	A YASKAWA COMPANY
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 yes Switching frequency with resistive load max. 100 Hz Switching frequency with inductive load max. 10 Hz Internal limitation of indictive shut-off voltage L+ (-62 V) Short-circuit protection of output yes, electronia Trigger level 1 A Number of operating cycle of relay outputs - Switching papeatry of contacts - Output data size 2 Byte Status information, alarms, diagnostics Status display Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostic functions none Channel error display none Channel error display none Status display pone Channel error display pone Between channels of groups to 8	Minimum load current	-	
Parallel switching of outputs for increased power not possible Actuation of digital input yes Switching frequency with resistive load max. 1000 Hz Switching frequency on lamp load max. 0.5 Hz Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (52 V) Short-circuit protection of output yes, electronic Trigger level 1 A Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 2 Byte Status information, alarms, diagnostics Status information, alarms, diagnostics Status information and plants, diagnostics Status information and plants and plants are alias as a second plant and plants are alias as a second plants are alia	Lamp load	5 W	
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Internal limitation of inductive shut-off voltage	Switching frequency with inductive load	max. 0.5 Hz	
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Dimensions (WxHxD) 101.6 mm x 76 mm x 48 mm Weight 271 g Environmental conditions Operating temperature 0 °C to 60 °C	Mounting	Profile rail 35 mm	
Weight 271 g Environmental conditions Operating temperature 0 °C to 60 °C	Mechanical data		
Environmental conditions Operating temperature 0 °C to 60 °C	Dimensions (WxHxD)	101.6 mm x 76 mm x 48 mm	
Operating temperature 0 °C to 60 °C	Weight	271 g	
	Environmental conditions		
Storage temperature -25 °C to 70 °C	Operating temperature	0 °C to 60 °C	
	Storage temperature	-25 °C to 70 °C	



Certifications

UL certification	yes
KC certification	-