

Data sheet EM 123 (123-4EL01)

Technical data

Type       EM 123         General Information       -         Note       -         Features       16 inputs/16 outputs Isolated         Current consumption/power loss       -         Current consumption/power loss       6 W         Technical data digital inputs       100 mA         Power loss       6 W         Technical data digital inputs       16         Cable length, shielded       600 m         Cable length, unshielded       600 m         Rated davolage       -         Current consumption from load voltage L+ (without load)       -         Current consumption from load voltage L+ (without load)       -         Rated davolage       0       -         Current consumption from load voltage L+ (without load)       -         Input voltage for signal "0"       DC 24 V         Input voltage for signal "1"       DC 16S28 V         Input voltage for signal "1"       Consol         Input voltage for signal "1"       TmA         Connection of Two-Wire-BEROs possible       yes         Max. permissible BERO quissent current       1.5 mA         Input delay 0" 0" 0" 1"       3 ms         Number of simultane	Order no.	123-4EL01
Note       -         Features       16 inputs 16 outputs Isolated         Current consumption/power loss       110 mA         Power loss       6 W         Technical data digital inputs       6 W         Number of inputs       16         Cable length, shielded       1000 m         Cable length, shielded       000 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 for signal *1*       DC 1528.8 V         Input voltage hysteresis       -         Frequency range       -         Input voltage hysteresis       -         Input current for signal *1*       7 mA         Connection of Two-Wire-BEROs possible       yes         Max.permissible BERO quiescent current       1.5 mA         Input dalay of *1* to *0*       3 ms         Number of simultaneously utilizable inputs vertical configuration       16         Input dalas of *1* to *0*       <	Туре	EM 123
Note       -         Features       16 inputs 16 outputs Isolated         Current consumption/power loss       110 mA         Power loss       6 W         Technical data digital inputs       6 W         Number of inputs       16         Cable length, shielded       1000 m         Cable length, shielded       000 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 for signal *1*       DC 1528.8 V         Input voltage hysteresis       -         Frequency range       -         Input voltage hysteresis       -         Input current for signal *1*       7 mA         Connection of Two-Wire-BEROs possible       yes         Max.permissible BERO quiescent current       1.5 mA         Input dalay of *1* to *0*       3 ms         Number of simultaneously utilizable inputs vertical configuration       16         Input dalas of *1* to *0*       <		
Features   16 inputs/ 16 outputs Isolaided     Current consumption/power loss   110 mA     Power loss   6 W     Technical data digital inputs   16     Number of inputs   16     Cable length, shielded   600 m     Cated to a voltage   -     Current consumption from load voltage L+ (without load)   -     Rated voltage   0C 24 V     Input voltage for signal '0'   DC 25 V     Input voltage for signal '1'   DC 15 N     Input voltage for signal '1'   TmA     Connection of Two-Wire-BEROs possible   yes     Max, permissible BERQ quiescent current   1.5 mA     Input delay of '1' to '1'   3 ms     Number of simultaneously utilizable inputs horizontal   16     Input delay of '1' to '0'   3 ms     Number of simultaneously utilizable inputs vertical configuratiot   16     Input delay district   16     Number of simultaneously utilizable inputs vertical configuratiot   16     Number of adjuttat size   2 Byte     Technical data digital outputs   16     Cable length, shielded   1000 m  <		
Isolated         Current consumption/power loss         Current consumption from backplane bus       110 mA         Power loss       6 W         Technical data digital inputs       6 W         Technical data digital inputs       16         Cable length, shielded       600 m         Rated Dad Voltage       -         Current consumption from load voltage L+ (without load)       -         Rated Dad Voltage       DC 24 V         Input voltage for signal °0°       DC 0 5 V         Input voltage for signal °1°       DC 0 5 V         Input voltage for signal °1°       DC 1 28.8 V         Input voltage for signal °1°       DC 1 28.8 V         Input voltage for signal °1°       Y mA         Connection of Two-Wire-BEROs possible       yes         Max. permissible BERO quiescent current       1.5 mA         Input delay of °1 °1 °1       3 ms         Number of simultaneously utilizable inputs vertical configuration       16         Input delay of °1 °1 °0°       3 ms         Number of simultaneously utilizable inputs vertical configuration       16         Input delay of °1 °1 °0 °       16         Number of simultaneously utilizable inputs vertical configuration		-
Current consumption from backplane bus     110 mA       Power loss     6 W       Technical data digital inputs     16       Number of inputs     16       Cable length, shielded     000 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 for signal *1*     DC 1528.8 V       Input voltage for signal *1*     T mA       Connection of Two-Wire-BEROs possible     yes       Max. permissible BERO quiescent current     1.5 mA       Input delay of *1* 0*     3 ms       Input delay of *1* 0*     3 ms       Number of simultaneously utilizable inputs horizontal configuration     16       Input delay of *1* 0*     16       Number of simultaneously utilizable inputs vertical configuration     16       Input delay of *1* 0*     16       Number of simultaneously utilizable inputs vertical configuration     16       Input characteristic curve     IEC 61131-2, type 1       Init	Features	
Current consumption from backplane bus     110 mA       Power loss     6 W       Technical data digital inputs     16       Number of inputs     16       Cable length, shielded     000 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 for signal *1*     DC 1528.8 V       Input voltage for signal *1*     T mA       Connection of Two-Wire-BEROs possible     yes       Max. permissible BERO quiescent current     1.5 mA       Input delay of *1* 0*     3 ms       Input delay of *1* 0*     3 ms       Number of simultaneously utilizable inputs horizontal configuration     16       Input delay of *1* 0*     16       Number of simultaneously utilizable inputs vertical configuration     16       Input delay of *1* 0*     16       Number of simultaneously utilizable inputs vertical configuration     16       Input characteristic curve     IEC 61131-2, type 1       Init		
Power loss       6 W         Technical data digital inputs       16         Number of inputs       160 m         Cable length, shielded       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 outgrafe hysteresis       -         Input toring end 1"1"       7 mA         Connection of Two-Wire-BEROs possible       yes         Max. permissible BERO quiescent current       1.5 mA         Input delay of "1" to "0"       3 ms         Number of simultaneously utilizable inputs horizontal configuration       16         Input characteristic curve       IEC 61131-2, type 1         Initial data size       2 Byte         Technical data digital outputs       16         Cable length, shielded       600 m         Cable length, shielded       600 m         Cable length, unshielded       600 m         Cable length, shielded		440
Technical data digital inputs       Number of inputs     16       Cable length, shielded     600 m       Rated load voltage     -       Current consumption from load voltage L+ (without load)     -       Rated voltage     DC 24 V       Input voltage for signal "0"     DC 0.5 V       Input voltage for signal "1"     DC 1528.8 V       Input voltage hysteresis     -       Frequency range     -       Input voltage hysteresis     -       Input resistance     -       Input duty of volto signal "1"     TmA       Connection of Two-Wite-BEROS possible     yes       Max. permissible BERO quiescent current     1.5 mA       Input delay of "1" to "0"     3 ms       Input delay of "1" to "0"     3 ms       Number of simultaneously utilizable inputs vertical configuration     16       Input characteristic curve     IEC 61131-2, type 1       Inhut delay size     2 Byte       Technical data digital outputs     160 m       Cable length, shielded     600 m       Cable length, shielded     600 m       Cable length, unshielded     600 m       Cable length, unshielded load voltage		
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 for signal '1"       DC 1528.8 V         Input voltage for signal '1"       DC 1528.8 V         Input otigge hysteresis       -         Frequency range       -         Input resistance       -         Input delay of '0" to '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         Input characteristic curve       IEC 61131-2, type 1         Initial data size       2 Byte         Technical data digital outputs       16         Cable length, unshielded       6000 m <t< td=""><td>Power loss</td><td>6 VV</td></t<>	Power loss	6 VV
Cable length, shielded1000 mCable length, unshielded600 mRated load voltage-Current consumption from load voltage L+ (without load)-Rated valueDC 24 VInput voltage for signal "0"DC 05 VInput voltage for signal "1"DC 1528.8 VInput voltage for signal "1"DC 1528.8 VInput voltage hysteresis-Frequency range-Input resistance-Input control of Two-Wire-BEROs possibleyesMax. permissible BERO quiescent current1.5 mAInput delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs vertical configuration16Input delay at a size2 ByteTechnical data digital outputs16Cable length, shielded600 mCable length, shielded600 mRated load voltageC24 VReverse polarity protection of rated load voltage-Current consumption from load voltage L+ (without load)30 mAOutput current at signal "1", rated value0.5 A	Technical data digital inputs	
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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 delay of "0" 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     16       Input characteristic curve     IEC 61131-2, type 1       Initial data size     2 Byte       Technical data digital outputs     16       Cable length, unshielded     600 m       Cable length, unshielded     600 m       Rated load voltage     -       DC 24 V	Cable length, shielded	1000 m
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     16       Cable length, shielded     1000 m       Cable length, unshielded     600 m       Rated load voltage     -       Reverse polarity protection of rated load voltage     -       Current consumption from load voltage L+ (without load)     30 mA	Cable length, unshielded	600 m
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Frequency range-Input resistance-Input current for signal "1"7 mAConnection of Two-Wire-BEROs possibleyesMax. permissible BERO quiescent current1.5 mAInput delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs horizontal configuration16Number of simultaneously utilizable inputs vertical configuration16Input characteristic curveIEC 61131-2, type 1Initial data size2 ByteTechnical data digital outputs16Cable length, unshielded600 mCable length, unshielded600 mRated load voltageDC 24 VReverse polarity protection of rated load voltage-Current consumption from load voltage L+ (without load)30 mAOutput current at signal "1", rated value0.5 A	Input voltage for signal "1"	DC 1528.8 V
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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	Input current for signal "1"	7 mA
Input delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs horizontal configuration16Number of simultaneously utilizable inputs vertical configuration16Input characteristic curveIEC 61131-2, type 1Initial data size2 ByteTechnical data digital outputsNumber of outputs16Cable length, shielded1000 mCable length, unshielded600 mRated load voltageDC 24 VReverse polarity protection of rated load voltage-Current consumption from load voltage L+ (without load)30 mAOutput current at signal "1", rated value0.5 A	Connection of Two-Wire-BEROs possible	yes
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Initial data size     2 Byte       Technical data digital outputs     16       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	Number of simultaneously utilizable inputs vertical configuration	16
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	Input characteristic curve	IEC 61131-2, type 1
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Rated load voltageDC 24 VReverse polarity protection of rated load voltage-Current consumption from load voltage L+ (without load)30 mAOutput current at signal "1", rated value0.5 A	Cable length, shielded	1000 m
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	Cable length, unshielded	600 m
Current consumption from load voltage L+ (without load)     30 mA       Output current at signal "1", rated value     0.5 A	Rated load voltage	DC 24 V
Output current at signal "1", rated value 0.5 A	Reverse polarity protection of rated load voltage	
Output current at signal "1", rated value 0.5 A	Current consumption from load voltage L+ (without load)	30 mA
Output delay of "0" to "1" max. 100 µs	Output current at signal "1", rated value	0.5 A
	Output delay of "0" to "1"	max. 100 µs



Output delay of "1" to "0"	max. 350 µs A YASKAWA COMPANY
Minimum load current	-
Lamp load	5 W
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. 1000 Hz
Switching frequency with inductive 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 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	
	2
Input bytes	2
Output bytes	2
Parameter bytes	0
Diagnostic bytes	0
Housing	225 / 24.0.0
Material	PPE / PA 6.6
Mounting	Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	101.6 mm x 76 mm x 48 mm
Weight	271 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C



Certifications

UL certification
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KC certification

yes -