Millenium Evo expansion XRP10

Digital expansion 10 I/O

- Digital Expansion 6 DI 4 DO
- Can be used twice to reach 44 I/Os configuration
- > Power supply by the controller
- XRP10



XRP10 Digital expansion 10 I/O

General characteristics		
Part number	88 975 201	
Products certification	CE, cULus Listed	
Conformity with the low voltage directive (in accordance with 2014/35/EU)	IEC/EN 61131-2 (Open equipment)	
Conformity with the EMC directive (in accordance with 2014/30/EU)	IEC/EN 61000-6-1 (Residential, commercial and light-industrial environments)	
	IEC/EN 61000-6-2 (Industrial)	
	IEC/EN 61000-6-3 (Residential, commercial and light-industrial environments)	
	IEC/EN 61000-6-4 (Industrial)	
Earthing	None	
Overvoltage category	3 in accordance with IEC/EN 60664-1	
Pollution	Degree: 2 in accordance with IEC/EN 61131-2	
Maximum utilization altitude	Operation: 2000 m	
	Transport: 3000 m	
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, Fc test	
	Immunity to shock IEC/EN 60068-2-27, Ea test	
Resistance to electrostatic discharge	Immunity to ESD IEC/EN 61000-4-2, level 3	
Resistance to HF interference (Immunity)	Immunity to radiated electrostatic fields IEC/EN 61000-4-3, level 3	
	Immunity to fast transients (burst immunity) IEC/EN 61000-4-4, level 3	
	Immunity to shock waves IEC/EN 61000-4-5	
	Radio frequency in common mode IEC/EN 61000-4-6, level 3	
Conducted and radiated emissions (in accordance with EN 55022/11 group 1)	Class B	
Operation temperature	-20 °C (-4 °F) \rightarrow +60 °C (140 °F) (+40 °C (104 °F) in a non-ventilated enclosure)	
	UL: maximum surrounding air: +50 °C (122 °F)	
Storage temperature	$-40~^{\circ}\text{C}~(-40~^{\circ}\text{F}) \rightarrow +80~^{\circ}\text{C}~(176~^{\circ}\text{F})$	
Relative humidity	95% max. (no condensation or dripping water)	
Screw terminals connection capacity	Flexible wire with ferrule: 1 conductor: 0.2 to 2.5 mm², AWG 24-14	
	Flexible wire with ferrule: 2 conductors: 0.2 to 0.75 mm², AWG 24-18	
	Rigid wire: 1 conductor: 0.2 to 2.5 mm², AWG 24-14	
	Rigid wire: 2 conductors: 0.2 to 0.75 mm², AWG 24-18	
	Tightening torque: 0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)	
	Stripping length: 6 mm	
Material	Lexan, UL94V0, Halogen free 1272/2008/CE	
On front panel color	Grey RAL 7035	
On sole color	Black RAL 9011	
Protection rating (in accordance with IEC/EN 60529)	IP 40 on front panel	
	IP 20 on terminal block	



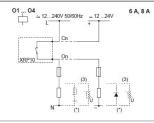


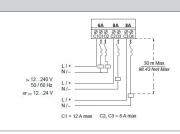
250 VAC max
_ 00 111
> 311 III
On LCD screen ≤ 30 m
Against short-circuits: None Against over voltages and overload: None
Make = 1 cycle time + 8 ms typical Release = 1 cycle time + 4 ms typical
In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV
At operating current: 0.1 Hz
Off load: 10 Hz
Usage category AC-15: 250 V, 2 A 100 mA (at minimum voltage of 12V)
Usage category DC-14: 24 V, 1.8 A 250 VAC cos phi = 1: 6 A, cos phi = 0.7: 5 A, cos phi = 0.4: 2.5 A Usage category AC-12: 250 V, 6 A Usage category AC-13: 250 V, 5 A Usage category AC-15: 250 V, 2 A
24 VDC tau = 0 ms: 6 A, tau = 7 ms: 3 A, tau = 15 ms: 1.8 A Usage category DC-12: 24 V, 6 A
5 000 000 operations (cycles)
IEC @ 25°C (77 °F): 12 A IEC @ 60°C (140 °F) or UL: 10 A
6A
250 VAC max
≤ 30 m
On LCD screen
Yes
None
Resistive None
Type 1
Contact or 3-wire PNP
1 to 2 cycle times
≤ 0.7 mA
≤9 VDC
≥1 mA
≥ 11 VDC
11.6 kΩ
2.1 mA @ 24 V 2.5 mA @ 28.8 V
1.8 mA @ 20.4 V
24 VDC (-15% / +20%)
2.5 W
2.5 W
Powered by the controller
With packing: 93 x 103 x 65 mm / 3.66 x 4.06 x 2.56 inch
With packing: 160 g Without packing: 60.4 x 90 x 60.6 mm / 2.37 x 3.54 x 2.38 inch

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Breaking current	8 A, ≥ 55°C: 6 A
Mechanical life	20 000 000 operations (cycles)
Electrical durability for 50 000 operating cycles	24 VDC tau = 0 ms: 8 A, tau = 7 ms: 3 A, tau = 15 ms: 1.5 A
	Usage category DC-12: 24 V, 8 A
	Usage category DC-14: 24 V, 1.5 A
	250 VAC cos phi = 1: 8 A, cos phi = 0.7: 4.75 A, cos phi = 0.4: 3 A
	Usage category AC-12: 250 V, 8 A
	Usage category AC-13: 250 V, 4.3 A
	Usage category AC-15: 250 V, 1.5 A
Minimum switching capacity	100 mA (at minimum voltage of 12V)
Maximum operating rate	Off load: 10 Hz
	At operating current: 0.1 Hz
Voltage for withstanding shocks	In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV
Response time	Make = 1 cycle time + 10 ms typical
	Release = 1 cycle time + 5 ms typical
Built-in protections	Against short-circuits: None
·	Against over voltages and overload: None
Status indicator	On LCD screen
Cable length	≤ 30 m
Technical sketches	
Dimensions (mm)	
XRP10	
(S).	952
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8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
88	
Connections	
INPUTS	
I1 I6 0/1	PNP 0
+ 24 VDC	AF 3 V
1116	(2) + (1) BK 30 m Max = 24V 98.43 feet Ma + - 1112 13 14 15 16 17 18 191A IBICIDIE IFIG 1112 13 14 15 16
PNP XRP10	+- 112 3 4 5 6 718 9JABICDE FIG 000000
OUPUTS	

OUPUTS





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