Millenium 3 Standard

→ "Compact" range with display

- Budget solution with display
- Memory: 120 lines in LADDER language and up to 350 "typical" blocks in FBD language
- LCD with 4 lines of 18 characters and configurable backlighting
- Selective parameter setting: You can choose the parameters that can be adjusted on the front panel
- Analogue inputs 0-10 V— or 0-20 mA/Pt 100 with converters (see page 50)





CD12

CD20

Туре	Input	Output	Supply	Code
CD12	8 digital (including 4 analogue)	4 relays 8 A	24 V	88970041
	8 digital (including 4 analogue)	4 solid state 0.5 A (including 1 PWM)	24 V	88970042
	8 digital	4 relays 8 A	100 → 240 V ~	88970043
	8 digital	4 relays 8 A	24 V \sim	88970044
	8 digital (including 4 analogue)	4 relays 8 A	12 V ===	88970045
CD20	12 digital (including 6 analogue)	8 relays 8 A	24 V ===	88970051
	12 digital (including 6 analogue)	8 solid state 0.5 A (including 4 PWM)	24 V	88970052
	12 digital	8 relays 8 A	100 → 240 V ~	88970053
	12 digital	8 relays 8 A	24 V \sim	88970054
	12 digital (including 6 analogue)	8 relays 8 A	12 V	88970055

Accessories

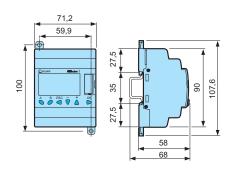
Туре	Description	Code
M3 SOFT	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	EEPROM memory cartridge	88970108
	3 m serial link cable: PC → Millenium 3	88970102
	3 m USB link cable: PC → Millenium 3	88970109
	Millenium 3 → Bluetooth interface (class A 10 m)	88970104

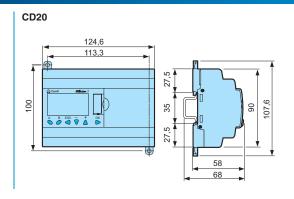
Starter kits (see page 27 for details)

Туре	Input	Output	Supply	Code
Kit 12	8 digital (including 4 analogue)	4 relays	24 V ===	88970080
	8 digital	4 relays	100 → 240 V ~	88970081
Kit 20	12 digital (including 6 analogue)	8 relays	24 V	88970082
	12 digital	8 relays	100 → 240 V ~	88970083

Dimensions (mm)







Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"

For adapted products, see page page 64-65



Millenium 3 Standard

→ General characteristics

- Millenium 3 Compact RangeMillenium 3 Expandable Range
- Millenium 3 Communication Options



	- III - 00A
Certifications •	UL, CSA
	GL: except for 88 970 32x (pending)
Conformity with the low	In accordance with 73/23/EEC:
oltage directive	EN (IEC) 61131-2 (Open equipment)
Conformity with the EMC directive	In accordance with 89/336/EEC:
	EN (IEC) 61131-2 (Zone B)
	EN (IEC) 61000-6-2,
	EN (IEC) 61000-6-3 (*)
*\ Event configuration (00 070 1 1 or 00 070 1 0) . (00	EN (IEC) 61000-6-4
, , , , , , , , , , , , , , , , , , , ,	8 970 250 or 88 970 270) + 88 970 241 class A (class B: using in metallic cabinet) None
Earthing	In accordance with IEC/EN 60529:
Protection rating •	IP40 on front panel
	IP40 on front panel IP20 on terminal block
Nonvoltago ostagony	3 in accordance with IEC/EN 60664-1
Overvoltage category Pollution	
Aaximum utilisation altitude	Degree: 2 in accordance with IEC/EN 61131-2
naximum utilisation altitude	Operation: 2000 m
Analysis I made to a second	Transport: 3.048 m
llechanical resistance ●	Immunity to vibrations IEC/EN 60068-2-6, Fc test
De ciatamas de algados atable dia abanco	Immunity to shock IEC/EN 60068-2-27, Fa test
Resistance to electrostatic discharge	Immunity to ESD IEC/EN 61000-4-2, level 3
Resistance to HF interference	Immunity to radiated electrostatic fields
	IEC/EN 61000-4-3,
	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
	Voltage dips and breaks (\sim)
	IEC/EN 61000-4-11
	Immunity to damped oscillatory waves
	IEC/EN 61000-4-12
Conducted and radiated emissions	Class B (*) in accordance with EN 55022/11 group 1
	88 970 250 or 88 970 270) + 88 970 241 class A (class B in metallic cabinet)
Operating temperature	-20 → +55°C (+40°C in a non-ventilated enclosure) in accordance with IEC/EN 60068-2-
- Paramid tomboratoro	and IEC/EN 60068-2-2
Storage temperature	-40 → +70°C in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Relative humidity	95% max. (no condensation or dripping water) in accordance with IEC/EN 60068-2-30
Nounting	On symmetrical DIN profile, 35 x 7.5 mm and 35 mm x 15 or panel (2 x 4 mm Ø)
Screw terminals connection capacity	Flexible wire with ferrule =
samuel samuel sapasity	1 conductor: 0.25 to 2.5 mm² (AWG 24AWG 14)
	2 conductors 0.25 to 0.75 mm² (AWG 24AWG 18)
	Semi-rigid wire =
	1 conductor: 0.2 to 2.5 mm ² (AWG 25, AWG 14)
	1 conductor: 0.2 to 2.5 mm ² (AWG 25AWG 14)
	Rigid wire =
	Rigid wire = 1 conductor: 0.2 to 2.5 mm ² (AWG 25AWG 14)
	Rigid wire =





Processing characteristics of CB, CD, XD & XB product types CD, XD: Display with 4 lines of 18 characters LCD display Programming method Ladder or function blocks/SFC (Grafcet) Ladder: 120 lines Program size Function blocks: CB, CD: typically 350 blocks XB, XD: typically 700 blocks Program memory Flash EEPROM Removable memory EEPROM Data memory 368 bits/200 words Back-up time in the event of power failure Program and settings in the controller: 10 years Program and settings in the plug-in memory: 10 years Data memory: 10 years Ladder: typically 20 ms Function blocks: 6 → 90 ms Cycle time Response time Clock data retention Input acquisition time + 1 to 2 cycle times 10 years (lithium battery) at 25°C Clock drift Drift < 12 min/year (at 25°C)

1% ± 2 cycle times

6 s/month (at 25°C with user-definable correction of drift)

Characteristics of products with AC power supplied

Timer block accuracy

Start up time on power up

Supply	24 V \sim	100 → 240 V ~
	(889704)	(889703)
Nominal voltage ●	24 V \sim	100 → 240 V ~
Operating limits •	-15% / +20%	-15% / +10%
	or 20.4 V \sim \rightarrow 28.8 V \sim	or 85 V \sim \rightarrow 264 V \sim
Supply frequency range	50/60 Hz (+4% / -6%)	50/60 Hz (+4% / -6%) or 47 → 53 Hz/57 → 6
	or 47→53 Hz/57 → 63 Hz	Hz
Immunity from micro power cuts	10 ms (repetition 20 times)	10 ms (repetition 20 times)
Max. absorbed power	CB12-CD12-XD10-XB10: 4 VA	CB12-CD12-XD10-XB10: 7 VA
	CB20-CD20: 6 VA	CB20-CD20: 11 VA
	XD10 with extension - XD26-XB26: 7.5 VA	XD10-XB10 with extension-XD26-XB26: 12 V
	XD26-XB26 with extension: 10 VA	XD26-XB26 with extension: 17 VA
Isolation voltage	1780 V \sim	1780 V \sim
Inputs	24 V \sim	100 → 240 V ~
	(889704)	(889703)
Input voltage •	24 V \sim (-15% / +20%)	$100 \rightarrow 240 \text{ V} \sim (-15\% / +10\%)$
Input current •	4.4 mA @ 20.4 V \sim	0.24 mA @ 85 V \sim
	5.2 mA @ 24.0 V \sim	0.75 mA @ 264 V \sim
	6.3 mA @ 28.8 V \sim	
Input impedance •	4.6 kΩ	350 kΩ
Logic 1 voltage threshold •	> 14 V ~	> 79 V ~
Making current at logic state 1	>2 mA	> 0.17 mA
Logic 0 voltage threshold •	≤ 5 V ∼	≤ 20 V ~ (≤ 28 V ~ : XE10, XR06, XR10
		XR14)
Release current at logic state 0 ●	<0.5 mA	<0.5 mA
Response time with LADDER programming	50 ms - State 0 → 1 (50/60 Hz)	50 ms - State 0 < 1 (50/60 Hz)
Response time with function blocks programming	Configurable in increments of 10 ms	Configurable in increments of 10 ms
	50 ms min. up to 255 ms	50 ms min. up to 255 ms
	State 0 → 1 (50/60 Hz)	State 0 → 1 (50/60 Hz)
Maximum counting frequency	In accordance with cycle time (Tc) and	In accordance with cycle time (Tc) and
	input response time (Tr):	input response time (Tr):
	1/ ((2 x Tc) + Tr)	1/ ((2 x Tc) + Tr)
Sensor type	Contact or 3-wire PNP	Contact or 3-wire PNP
Input type	Resistive	Resistive
Isolation between power supply and inputs	None	None
Isolation between inputs	None	None
Protection against polarity inversions	Yes	Yes
Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD
Characteristics of relay outputs common to the en	tire range	
Max. breaking voltage ●	5 → 30 V ===	
	24 \rightarrow 250 V \sim	
Breaking current •	CB-CD-XB10-XD10-XR06-XR10: 8 A	
<u>-</u>	XD26-XB26: 8 x 8 A relays, 2 x 5 A relays	
	XE10: 4 x 5 A relays	
	XR14: 4 x 8 A relays, 2 x 5 A relays	
Max. Output Common Current	12A for O8,O9,OA	

^{• :} For adapted products, see page page 64-65



Millenium 3 Standard

Electrical durability for 500 000 operating cycles	Usage category DC-12: 24 V, 1.5 A
	Usage category DC-13: 24 V (L/R = 10 ms), 0.6 A
	Usage category AC-12: 230 V, 1.5 A
	Usage category AC-15: 230 V, 0.9 A
Minimum switching capacity	10 mA (at minimum voltage of 12 V)
Minimum load	12 V, 10 mA
Maximum rate	Off load: 10 Hz
Mechanical life	10.000.000 operations (cycles)
Voltage for withstanding shocks	In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV
Response time	Make 10 ms
	Release 5 ms
Built-in protections	Against short-circuits: None
	Against overvoltages and overloads: None
Status indicator	On LCD screen for CD and XD

Characteristics of product with DC power supplied

Supply	12 V (889705 & 88970814 & 88970840)	24 V (889701 & 889702)
Nominal voltage ●	12 V	24 V
Operating limits ●	-13% / +20% or 10.4 V < 14.4 V (including ripple)	-20% / +25% or 19.2 V < 30 V (including ripple)
Immunity from micro power cuts Max. absorbed power	≤ 1 ms (repetition 20 times) CB12 with solid state outputs: 1.5 W CD12: 1.5 W CD20: 2.5 W XD26-XB26: 3 W XD26-XB26 with extension: 5 W XD26 with solid state outputs: 2.5 W	≤ 1 ms (repetition 20 times) CB12-CD12-CD20 with solid state outputs - XD10-XB10 with solid state outputs: 3 W XD10-XB10 with relay outputs: 4 W XD26-XB26 with solid state outputs: 5 W CB20-CD20 with relay outputs-XD26 with relay outputs: 6 W XD10-XB10 with extension: 8 W XD26-XB26 with extension: 10 W
Protection against polarity inversions	Yes	Yes
Digital inputs (I1 to IA and IH to IY)	12 V == (889705 & 88970814 & 88970840)	24 V (889701 & 889702)
Input voltage •	12 V == (-13% / +20%)	24 V == (-20% / +25%)
Input current ●	3.9 mA @ 10.44 V 4.4 mA @ 12.0 V 5.3 mA @ 14.4 V	2.6 mA @ 19.2 V 3.2 mA @ 24 V 4.0 mA @ 30.0 V
Input impedance •	2.7 kΩ	7.4 kΩ
Logic 1 voltage threshold •	≥ 7 V 	≥ 15 V
Making current at logic state 1 ●	≥2 mA	≥2.2 mA
Logic 0 voltage threshold	≤ 3 V ===	≤ 5 V
Release current at logic state 0 • Response time	<0.9 mA 1 → 2 cycle times	<0.75 mA 1 → 2 cycle times
Maximum counting frequency	I1 & I2: Ladder (1 kHz) & FBD (Up to 6 kHz) I3 to IA & IH to IY: in accordance with cycle time (Tc) and input response time (Tr): 1/((2 x Tc) + Tr)	I1 & I2: Ladder (1 kHz) & FBD (Up to 6 kHz) I3 to IA & IH to IY: in accordance with cycle time (Tc) and input response time (Tr): 1/((2 x Tc) + Tr)
Sensor type	Contact or 3-wire PNP	Contact or 3-wire PNP
Conforming to IEC/EN 61131-2	Type 1	Type 1
Input type	Resistive	Resistive
Isolation between power supply and inputs	None	None
Isolation between inputs	None	None
Protection against polarity inversions	Yes	Yes
Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD
Analogue or digital inputs (IB to IG)	12 V (889705 & 88970814 & 88970840)	24 V (889701 & 889702)
CB12-CD12-XD10-XB10	4 inputs IB → IE	4 inputs IB → IE
CB20-CD20-XB26-XD26	6 inputs IB → IG	6 inputs IB → IG
Inputs used as analogue inputs		
Measurement range •	$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$	$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$
Input impedance	14 kΩ	12 kΩ
Input voltage ● Value of LSB ●	14.4 V == max 14 mV, 4 mA	30 V max 29 mV, 4 mA
Input type	Common mode	Common mode
Resolution	10 bit at maximum input voltage	10 bit at maximum input voltage
Conversion time	Controller cycle time	Controller cycle time
Accuracy at 25°C	±5%	±5%
Accuracy at 55°C	± 6.2%	± 6.2%
Repeat accuracy at 55 °C	± 2%	± 2%
Isolation between analogue channel and power supply Cable length	None 10 m maximum, with shielded cable (sensor not isolated)	None 10 m maximum, with shielded cable (sensor not isolated)
Protection against polarity inversions	Yes	Yes

^{• :}For adapted products, see page page 64-65



Potentiometer control	2.2 k Ω /0.5 W (recommended)	2.2 kΩ/0.5 W (recommended)	
In made and an all other transport	10 kΩ max.	10 kΩ max.	
Inputs used as digital inputs	10.1/ / 100/ / 200/	04.77— (000/ / .050/)	
Input voltage Input current	12 V (-13% / +20%) 0.7 mA @ 10.44 V	24 V (-20% / +25%) 1.6 mA @ 19.2 V	
input current	0.7 mA @ 10.44 V 0.9 mA @ 12.0 V 	2.0 mA @ 24.0 V 	
	1.0 mA @ 14.4V 	2.5 mA @ 30.0 V 	
Input impedance ●	14 kΩ	12 kΩ	
Logic 1 voltage threshold •	≥ 7 V 	≥ 15 V	
Making current at logic state 1 •	≥ 0.5 mA	≥ 1.2 mA	
Logic 0 voltage threshold •	≤ 3 V 	≤ 5 V 	
Release current at logic state 0 •	≤ 0.2 mA	≤ 0.5 mA	
Response time	1 →2 cycle times	1 →2 cycle times	
Maximum counting frequency	In accordance with cycle time (Tc) and	In accordance with cycle time (Tc) and	
	input response time (Tr): 1/ ((2 x Tc) + Tr)	input response time (Tr): 1/ ((2 x Tc) + Tr	
Sensor type	Contact or 3-wire PNP	Contact or 3-wire PNP	
Conforming to IEC/EN 61131-2 Input type	Type 1 Resistive	Type 1 Resistive	
Isolation between power supply and inputs	None	None	
Isolation between inputs	None	None	
Protection against polarity inversions	Yes	Yes	
Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD	
Characteristics of relay outputs common to the enti	ire range		
Max. breaking voltage •	5 → 30 V ===		
	3 → 30 V 24 → 250 V ~		
Breaking current ●	CB-CD-XD10-XB10-XR06-XR10: 8 A		
	XD26-XB26: 8 x 8 A relays, 2 x 5 A relays		
	XE10: 4 x 5 A relays		
	XR14: 4 x 8 A relays, 2 x 5 A relays		
Max. Output Common Current	12A for O8,O9,OA		
Electrical durability for 500 000 operating cycles	Usage category DC-12: 24 V, 1.5 A Usage category DC-13: 24 V (L/R = 10 ms), 0.6 A		
	Usage category AC-13: 24 V (L/H = 10 ms), Usage category AC-12: 230 V, 1.5 A	0.6 A	
	Usage category AC-15: 230 V, 1.3 A		
Minimum switching capacity	10 mA (at minimum voltage of 12 V)		
Minimum load	12 V, 10 mA		
Maximum rate	Off load: 10 Hz		
	At operating current: 0.1 Hz		
Mechanical life	10.000.000 operations (cycles)	/ENL00004 4 . 4 LV	
Voltage for withstanding shocks Response time	In accordance with IEC/EN 60947-1 and IEC Make 10 ms	/EN 60664-1: 4 KV	
nesponse time	Release 5 ms		
Built-in protections	Against short-circuits: None		
F	Against overvoltages and overloads: None		
Status indicator	On LCD screen for CD and XD		
Digital / PWM solid state output	12-24 V 	24 V ===	
	(88970814 & 88970840)	(889702)	
PWM solid state output*			
	CB12: O4	CD12-XD10-XB10: O4	
•	CB12: O4 XD26: O4 → O7	CD12-XD10-XB10: O4 CD20-XD26-XB26: O4 → O7	
* Only available with "FBD" programming language			
•			
* Only available with "FBD" programming language Breaking voltage Nominal voltage	XD26: O4 → O7 10.4 → 30 V== 12-24 V ==	CD20-XD26-XB26: O4 → O7 19.2 → 30 V=== 24 V ===	
* Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A	CD20-XD26-XB26: O4 → O7 19.2 → 30 V=== 24 V === 0.5 A	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current •	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A	CD20-XD26-XB26: O4 → O7 19.2 → 30 V=== 24 V === 0.5 A 0.625 A	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1)	CD20-XD26-XB26: O4 → O7 19.2 → 30 V=== 24 V === 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1)	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current •	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes	CD20-XD26-XB26: O4 → O7 19.2 → 30 V== 24 V == 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against inversions of power supply: Yes	CD20-XD26-XB26: O4 → O7 19.2 → 30 V== 24 V == 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against inversions of power supply: Yes	CD20-XD26-XB26: O4 → O7 19.2 → 30 V== 24 V == 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load	CD20-XD26-XB26: O4 → O7 19.2 → 30 V== 24 V == 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load Galvanic isolation	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V No	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes tof the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load Galvanic isolation PWM frequency	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load Galvanic isolation	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*) : Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024 for XA)	CD20-XD26-XB26: O4 → O7 19.2 → 30 V 24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024 for XA)	
* Only available with "FBD" programming language Breaking voltage • Nominal voltage • Nominal current • Max. breaking current • Voltage drop Response time Built-in protections (*) In the absence of a volt-free contact between the output Min. load Maximum incandescent load Galvanic isolation PWM frequency	XD26: O4 → O7 10.4 → 30 V 12-24 V 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes t of the logic controller and the load 1 mA 0.2 A / 12 V 0.1 A / 24 V No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024	CD20-XD26-XB26: O4 → O7 19.2 → 30 V== 24 V == 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes 1 mA 0.1 A / 24 V == No 14.11 Hz - 56.45 Hz - 112.90 Hz - 225.80 Hz - 451.59 Hz - 1806.37 Hz 0 → 100% (256 steps for CD, XD and 1024	

ullet :For adapted products, see page page 64-65



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