

Resin board version NBR32 Part number 88973211



- Vibration resistant
- Extended temperature range
- Outputs via removable connectors
- IP50 seal (connectors)
- DB 9-pin programming port via standard RS 232 cable
- Designed for application-specific functions
- Supplied without connectors. Connectors available (Ref. 88970313, 88970314, 88970315, 88970316)

Par	rt numbers				
	Type	Designation	Inputs	Outputs	Supply
8	8973211 NBR32	Relay outputs with connectors	20 digital (including 6 analogue)	12 relays	24 V DC

pecifications	
General environment characteristics for CB,	CD_XD_XB_XR and XE product types
Certifications	CE, VB, XB, AR and XE product types CE, UL, CSA, GL
Certifications Conformity to standards (with the low voltage direc	
and EMC directive)	IEC/EN 61131-2 (Open equipment)
and Live directively	IEC/EN 61000-6-2,
	IEC/EN 61000-6-3 (*)
	IEC/EN 61000-6-4
	(*) Except configuration (88 970 1.1 or 88 970 1.2) + (88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure
Earthing	Not included
Protection rating	In accordance with IEC/EN 60529:
	IP40 on front panel
	IP20 on terminal block
Overvoltage category	3 in accordance with IEC/EN 60664-1
Pollution	Degree : 2 in accordance with IEC/EN 61131-2
Max operating Altitude	Operation : 2000 m Transport : 3048 m
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, test Fc
	Immunity to shock IEC/EN 60068-2-27, test Ea
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 (AC)
	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, EN 55011 (CISPR22, CISPR11) group 1
	(*) Except configuration (88 970 1.1 or 88 970 1.2) +
	(88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure)
Operating temperature	-20 →+70 °C
	except CB and XB versions in VDC : -30 →+70 °C (+40 °C in a non-ventilated enclosure) in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-22
Storage temperature	-40 →+80 °C in accordance with IEC/EN 60068-2-1 and
Storage temperature	IEC/EN 60068-2-2
Relative humidity	95 % max. (no condensation or dripping water) in accordance with IEC/EN 60068-2-30
Mounting	On symmetrical DIN rail, 35 x 7.5 mm and 35 x 15 mm, or on panel (2 x Ø 4 mm)
Screw terminals connection capacity	Flexible wire with ferrule =
	1 conductor : 0.25 to 2.5 mm ² (AWG 24AWG 14)
	2 conductors 0.25 to 0.75 mm ² (AWG 24AWG 18)
	Semi-rigid wire =
	1 conductor : 0.2 to 2.5 mm ² (AWG 25AWG 14) Rigid wire =
	1 conductor : 0.2 to 2.5 mm ² (AWG 25AWG 14)
	2 conductors 0.2 to 1.5 mm ² (AWG 25AWG 16)
	Tightening torque =
	0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)
	0.0 Te.m (4.0 lb lif) (lighter doing corowarver dam. 0.0 mm)

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General characteristics	General	charact	teristics
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General Characteristics	
Certifications	CE CE
Protection index	IP50 (removable connectors)
Mechanical resistance IEC 61373	Railway applications - Rolling stock Category 1 class B stock mounted on car Vibration resistance : 5-150 Hz Random sampling : 10 minutes in each direction (X, Y, Z) Sinusoidal sampling : 5 hours in each direction (X, Y, Z) Shock resistance : 3 shocks 3 g/30 ms per direction Dropping : Total of 26 drops on all sides from a height of 1 metre
Mechanical resistance GAM EG 13	Terrestrial military vehicles Vibration resistance 5-500 Hz 50 m/s ² Sinusoidal sampling 5 hours in each direction (X, Y, Z) Shock resistance: Acceleration: 150 m/s ² , duration: 11 ms, 3 shocks per shaft Acceleration: 300 m/s ² , duration: 11 ms, 3 shocks per shaft Bumps: 1000 half wave sine mechanical bumps: 15 g / 6 ms per shaft
Operating temperature	-30 →+70 °C (DC)
Storage temperature	-40 →+80 °C
Housing	Self-extinguishing UL94V2
Resin	UL approved Self-extinguishing UL94V0 Semi-rigid polyurethane resin Solid black appearance Breakdown voltage: 25 kV/mn Water absorption: 0.2 % (24 hours at 23 °C) Shore D hardness: 50 ±5 Smoke category: F0
Outputs	Removable connectors
Breaking current	6 A relay output

Processing characteristics of CB, CD, XD & XB product types

CD, XD : Display with 4 lines of 18 characters
Function blocks / SCF (Grafcet) or Ladder
8 Kb : 350 typical blocks, 64 macros maximum, 256 blocks maximum per macro
or
120 lines in Ladder
Flash EEPROM
EEPROM
368 bit/200 words
Program and settings in the controller : 10 years
Program and settings in the plug-in memory : 10 years
Data memory: 10 years
FBD : 6 →90 ms (typically 20 ms)
Ladder: typically 20 ms
Input acquisition time: 1 to 2 cycle times
10 years (lithium battery) at 25 °C
Drift < 12 min/year (at 25 °C)
6 s/month (at 25 °C with user-definable correction of drift)
1 % ± 2 cycle times
< 1,2 s

Characteristics of products with AC power supplied

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Supply		
Nominal voltage	24 V AC	100 →240 V AC
Operating limits	-15 % / +20 % or 20.4 V AC→28.8 V AC	-15 % / +10 % or 85 V AC→264 V AC
Supply frequency range	50/60 Hz (+4 % / -6 %) or 47 →53 Hz/57 →63 Hz	50/60 Hz (+ 4 % / - 6 %) or 47 \rightarrow 53 Hz/57 \rightarrow 63 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 CB20-CD20 : 6 VA XD10-XB10 with extension : 7.5 VA XD26-XB26 : 7.5 VA XD26-XB26 with extension : 10 VA	CB12-CD12-XD10-XB10 : 7 VA CB20-CD20 : 11 VA XD10-XB10 with extension : 12 VA XD26-XB26 : 12 VA XD26-XB26 with extension : 17 VA
Isolation voltage	1780 V AC	1780 V AC

Inputs

Input voltage	24 V AC (-15 % / +20 %)	100 →240 V AC (-15 % / +10 %)
Input current	4.4 mA @ 20.4 V AC 5.2 mA @ 24.0 V AC 6.3 mA @ 28.8 V AC	0.24 mA @ 85 V AC 0.75 mA @ 264 V AC
Input impedance	4.6 kΩ	350 kΩ
Logic 1 voltage threshold	≥ 14 V AC	≥ 79 V AC
Making current at logic state 1	> 2 mA	> 0.17 mA
Logic 0 voltage threshold	≤5 V AC	≤ 20 V AC (≤ 28 V AC : 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 50 ms min. up to 255 ms State $0 \rightarrow 1 (50/60 \text{ Hz})$	Configurable in increments of 10 ms 50 ms min. up to 255 ms State $0 \rightarrow 1$ (50/60 Hz)
Maximum counting frequency	In accordance with cycle time (Tc) and input response time (Tr) : 1/ ((2 x Tc) + Tr)	In accordance with cycle time (Tc) and input response time (Tr) : 1/ ($(2 \times Tc) + Tr)$

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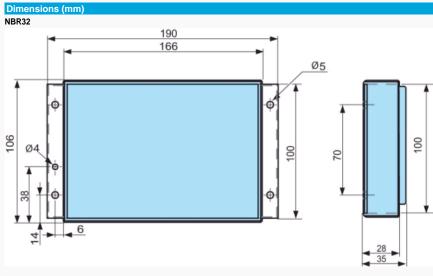
04/12/2014	Contact or Confee DND		WWW.Crouzet.coi	
Sensor type Input type	Contact or 3-wire PNP Resistive		Contact or 3-wire PNP Resistive	
Isolation between power supply and inputs	None		None	
Isolation between inputs	None		None	
Protection against polarity inversions	Yes		Yes	
Status indicator	On LCD screen for CD and XD		On LCD screen for CD and XD	
Characteristics of relay outputs common to Max. breaking voltage	5 →30 V DC			
wax. Dreaking voltage	3 →30 V DC 24 →250 V AC			
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		and the same that the state of the same state of	
Floatrical durability for E00 000 approxing avalage	Utilization category DC-12 : 24 V, 1.5 A	: verily the maximum o	current according to the type of connection used	
Electrical durability for 500 000 operating cycles	Utilization category DC-12 : 24 V, 1.5 A Utilization category DC-13 : 24 V (L/R = 10 r	ns) 06A		
	Utilization category AC-12 : 230 V, 1.5 A	,		
	Utilization category AC-15 : 230 V, 0.9 A			
Max. Output Common Current	12 A for O8, O9, OA			
Minimum switching capacity	10 mA (at minimum voltage of 12 V)			
Minimum load	12 V, 10 mA			
Maximum rate	Off load: 10 Hz			
Manhaniantifa	At operating current : 0.1 Hz			
Mechanical life	10,000,000 (operations)	/EN 60664 4 · 4 ls/		
Voltage for withstanding shocks Off-cycle response time	In accordance with IEC/EN 60947-1 and IEC. Make 10 ms	7LN 00004-1 . 4 KV		
On cycle response time	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 su	pplied			
	pp			
Supply	40.4.00	041450		
Nominal voltage	12 V DC	24 V DC		
Operating limits	-13 % / +20 % or 10.4 V DC→14.4 V DC (including ripple)	-20 % / +25 %	DC (including ripple)	
Immunity from micro power cuts	≤ 1 ms (repetition 20 times)	≤ 1 ms (repetition 20	DC (including ripple)	
Max. absorbed power			ith solid state outputs - XD10-XB10 with solid state outputs : 3 W	
Max. absorbed power	CB12 with solid state outputs : 1.5 W	XD10-XB10 with rela	· · · · · · · · · · · · · · · · · · ·	
	CD12 : 1.5 W CD20 : 2.5 W		d state outputs : 5 W	
	XD26-XB26 : 3 W	CB20-CD20 with rela		
	XD26-XB26 with extension : 5 W XD26 with relay outputs : 6 W			
	XD26 with solid state outputs : 2.5 W	XD10-XB10 with extended XD26-XB26 with extended and the control of		
Protection against polarity inversions	Yes	Yes	CHOIGHT. TO VV	
	, 00	. 00		
Digital inputs (I1 to IA and IH to IY)	40 \ \ DC \ 40 0 \ \ \ .00 0 \ \		04 \/ PC / 00 P/ / +0F P/ \	
Input voltage	12 V DC (-13 % / +20 %) 3.9 mA @ 10.44 V DC		24 V DC (-20 % / +25 %) 2.6 mA @ 19.2 V DC	
Input current	4.4 mA @ 12.0 V DC		3.2 mA @ 24 V DC	
	5.3 mA @ 14.4 VDC		4.0 mA @ 30.0 VDC	
Input impedance	2.7 kΩ		7.4 kΩ	
Logic 1 voltage threshold	≥7 V DC		≥ 15 V DC	
Making current at logic state 1	≥ 2 mA		≥ 2.2 mA	
Logic 0 voltage threshold	≤ 3 V DC		≤5 V DC	
Release current at logic state 0	< 0.9 mA		< 0.75 mA	
Response time	1 →2 cycle times + 6 ms		1 →2 cycle times + 6 ms	
Maximum counting frequency	Inputs I1 & I2 : FBD (up to 6 k Hz) & Ladder (,	Inputs I1 & I2 : FBD (up to 6 k Hz) & Ladder (1 k Hz)	
	Inputs I3 to IA & IH to IY: In accordance with	n cycle time (Tc) and	Inputs I3 to IA & IH to IY: In accordance with cycle time (Tc) and	
Consenting	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	Type 1		Type 1	
Input type	Resistive None		Resistive None	
Isolation between power supply and inputs 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	
	CIT 200 CO. COIT TOT OD WING NO		and and and and	
Analogue or digital inputs (IB to IG)	Courte ID 15		Allowed ID. IE	
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 inputsonly in FBD				
Measurement range	$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$		$(0 \rightarrow 10 \text{ V})$ or $(0 \rightarrow \text{V power supply})$	
Input impedance	14 kΩ		12 kΩ	
Input voltage	14.4 V DC max.		30 V DC max.	
Value of LSB	14 mV		29 mV	
Input type	Common mode		Common mode	
Resolution	10 bit at max. input voltage		10 bit at max. 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%	

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Isolation between analogue channel and power supply Cable length		None
Cable length	None	None
- Casio io igui	10 m maximum, with shielded cable (sensor not isolated)	10 m maximum, with shielded cable (sensor not isolated)
Protection against polarity inversions	Yes	Yes
Potentiometer control	2.2 kΩ/0.5 W (recommended)	2.2 kΩ/0.5 W (recommended)
1 oteritionieter control		,
	10 kΩ max.	10 kΩ max.
Inputs used as digital inputs		
	12 \/ DC / 12 9/ / 120 9/\	24 \/ DC / 20 9/ / -25 9/\
Input voltage	12 V DC (-13 % / +20 %)	24 V DC (-20 % / +25 %)
Input current	0.7 mA @ 10.44 VDC	1.6 mA @ 19.2 VDC
	0.9 mA @ 12.0 VDC	2.0 mA @ 24.0 V DC
	1.0 mA @ 14.4VDC	2.5 mA @ 30.0 VDC
Input impedance	14 kΩ	12 kΩ
Logic 1 voltage threshold	≥7 V DC	≥ 15 VDC
Making current at logic state 1	≥ 0.5 mA	≥ 1.2 mA
Logic 0 voltage threshold	≤3 V DC	≤5 V DC
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 FBD	In accordance with cycle time (Tc) and input response time (Tr):	In accordance with cycle time (Tc) and input response time (Tr):
waxiinum counting frequency in 1 DD		
	1/ ((2 x Tc) + 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
Characteristics of relay outputs common to the	ntire range	
Max. breaking voltage	5 →30 V DC	
	24 →250 V AC	
Man Outsid Common O		
Max. Output Common Current	12A (10A UL) for O8, O9, OA	
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	
Electrical durability for 500 000 operating cycles	Utilization category DC-12 : 24 V, 1.5 A	
	Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A	
	Utilization category AC-12 : 230 V, 1.5 A	
	Utilization category AC-15 : 230 V, 0.9 A	
A STATE OF THE STA		
Minimum switching capacity	10 mA (at minimum voltage of 12 V)	
Minimum load	12 V, 10 mA	
Maximum rate	Off load: 10 Hz	
Waximum rate		
	At operating current : 0.1 Hz	
Mechanical life	10,000,000 (operations)	
Voltage for withstanding shocks	In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV	
Off-cycle response time	Make 10 ms	
	Release 5 ms	
Built-in protections	Against short-circuits : None	
	Against overvoltages and overloads : None	
Status indicator		
Status indicator	On LCD screen for CD and XD	
Digital / PWM solid state output	On LCD screen for CD and XD	
	On LCD screen for CD and XD CB12: O4	CD12-XD10-XB10 : O4
Digital / PWM solid state output	On LCD screen for CD and XD	CD12-XD10-XB10 : O4 CD20-XD26-XB26 : O4 →O7
Digital / PWM solid state output	On LCD screen for CD and XD CB12: O4	
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language	On LCD screen for CD and XD CB12 : O4 XD26 : O4 → O7 * Only available with "FBD" programming language	CD20-XD26-XB26 : O4 →O7
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language	On LCD screen for CD and XD CB12 : O4 XD26 : O4 → O7 * Only available with "FBD" programming language	CD20-XD26-XB26 : O4 →O7
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 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 DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1)
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 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 DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1)
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 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 DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overloads and short-circuits: Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overloads and short-circuits: Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No 14.11 Hz	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz
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Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA)	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio Max. Breaking current PWM	CB12: O4 XD26: O4 →O7 * Only available with "FBD" programming language 10.4 →30 V DC 12-24 VDC 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA) 50 mA	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against overvoltages (*) : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC 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 steps for XA) 50 mA
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio Max. Breaking current PWM Max. cable length PWM	CB12: O4 XD26: O4 →O7 * Only available with "FBD" programming language 10.4 →30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio Max. Breaking current PWM	CB12: O4 XD26: O4 →O7 * Only available with "FBD" programming language 10.4 →30 V DC 12-24 VDC 0.5 A 0.625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA) 50 mA	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against overvoltages (*) : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC 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 steps for XA) 50 mA
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio Max. Breaking current PWM Max. cable length PWM PWM accuracy at 120 Hz	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overvoltages (*): Yes Against overvoltages (*): Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m < 5 % (20 % →80 %) load at 10 mA	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m
Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency Built-in protections Min. load Maximum incandescent load Galvanic isolation PWM frequency PWM cyclic ratio Max. Breaking current PWM Max. cable length PWM	CB12: O4 XD26: O4 →O7 * Only available with "FBD" programming language 10.4 →30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,2 A / 12 V DC 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 0,1 A / 24 V DC 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 steps for XA) 50 mA 20 m < 5 % (20 % →80 %) load at 10 mA

Accessories

Туре	Description	Code
M3 Soft	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	1.80 m serial link cable : DB9 M / DB9 F	88970123
PA	PC : USB →DB9 (RS 232) link cable	88950105
MA	Removable connector kit for NBR32	88970315



mm



- 40 cm wire
 Extended power supply range (9 →18 VDC), (16 →36 VDC)
 Remote polyester keyboard
 UL, CSA, GL certification

- Integration of all available electrical functions in the catalogue (e.g. : Bluetooth® module, Pt100 input, 0-20 mA input, 0-10 V power output, etc)
- Changing the number of I/O

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