

> Logic Controller Millenium Evo

- > Up to 44 I/Os Base 16 DI (4 HighSpeed/8 AI) - 8 DO
- > Wireless programming & control with bluetooth Interface and Crouzet **Virtual Display**
- > Ethernet Modbus TCP/IP (Client/ Server) and Modbus RTU Network via interface (Slave)
- > Event and Datalog Managment via mail/FTP server or Locally
- > Up to 1000 programing blocks with intuitive Crouzet Soft to go from simple to complex applications









XBP24 Base 24 I/O

XBP24-E Base 24 I/O Ethernet

XDP24 Base 24 I/O

XDP24-E Base 24 I/O Ethernet

Product selection					
Туре	LCD display	Ethernet network	Part number		
XBP24	No	No	88 975 001		
XBP24-E	No	Yes	88 975 011		
XDP24	Yes	No	88 975 101		
XDP24-E	Yes	Yes	88 975 111		

Accessories	
Accesories Description	Part-number
USB Interface	88 980 110
USB cable 3m B type	88 980 170
Kit Description	Part-number
MilleniumEVO STARTER KIT, Logic Controller + Bluetooth interface	88 975 901
MilleniumEVO STARTER KIT, Logic Controller with embedded Ethernet + Bluetooth interface	88 975 911
MilleniumEVO KIT XDP24-E + Crouzet Touch CTP104-E Performance, Ethernet, USB Key	88 970 558
MilleniumEVO KIT XDP24-E + Crouzet Touch CTP107-E Performance, Ethernet, USB Key	88 970 568

	XBP24	XBP24-E	XDP24	XDP24-E
General features				
Ethernet Modbus TCP/IP (Client///Server)	-	Yes (16 IP range /// 16 words + 8bits)	-	Yes (16 IP range /// 16 words + 8bits)
Modbus RTU RS485 (Salve)	Yes via interface (16 wo	ords + 8 bits)		
Datalog via mail or FTP	-	Yes (16 data channel; 32 000 recording)	-	Yes (16 data channel 32 000 recording)
Datalog local	Yes (16 data channel; 6 000 recording)	-	Yes (16 data channel; 6 000 recording)	-
Event mangement via mail	-	Yes (12 events)	-	Yes (12 events)
Bluetooth	Yes via interface			
General characteristics				
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	IEC/EN 61000-6-1 (Residential, commercial and light-industrial environments)			
(in accordance with 2014/30/EU)	IEC/EN 61000-6-2 (Industrial)			
	IEC/EN 61000-6-3 (Residential, commercial and light-industrial environments)			
	IEC/EN 61000-6-4 (Industrial)			



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	XBP24	XBP24-E	XDP24	XDP24-E	
Power supply earthing	None				
Overvoltage category	3 in accordance with IE	C/EN 60664-1			
Pollution	Degree: 2 in accordanc	e with IEC/EN 61131-2			
Maximum utilization altitude	Operation: 2000 m				
NA - In a size I are sixted as	Transport: 3000 m	FO/FN 00000 0 0 F- ++			
Mechanical resistance	•	EC/EN 60068-2-6, Fc test EN 60068-2-27, Ea test			
Resistance to electrostatic discharge	Immunity to ESD IEC/E	N 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 UL: maximum surround	C (140 °F) (+40 °C (104 °F ing air: +50 °C (122 °F)) in a non-ventilated enclo	osure)	
Storage temperature	-40 °C (-40 °F) → +80 °	C (176 °F)			
Relative humidity	95% max. (no condensa	ation 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				
Environnement	Reach, RoHS, 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				
Weight	Without packing: 270 g With packing: 320 g	Without packing: 300 g With packing: 350 g		Without packing: 330 g With packing: 380 g	
Dimensions	3.54 x 2.4 inch	x 90 x 61.1 mm / 4.91 x	3.54 x 2.44 inch		
	With packing: 148 x 103 2.56 inch	3 x 65 mm / 5.83 x 4.06 x	With packing: 148 x 103 2.56 inch	3 x 65 mm / 5.83 x 4.06 x	
Processing characteristics					
LCD display	Without		Display with 4 lines of 1 green	8 characters, yellow/	
Programming method	FBD (Function Block Di	agram), including SFC (Se	equential Function Chart)	(Grafcet)	
Program size	Function blocks: typically 512 blocks Macro blocks: 127 max. (255 blocks per macro)				
Program memory	Flash				
Removable memory	N.A				
Data memory	2 k octets				
Back-up time	Program and settings in the controller: 10 years				
(in the event of power failure)	Data memory: 10 years				
Data back-up	<u> </u>	n memory is guaranteed if	the product is powered o	n more than 10 seconds	
Cycle time	From 2 ms* to 90 ms, default value: 10 ms *: Depending on configuration				
Clock data retention	10 years (lithium battery) at 25 °C (77 °F)				
Clock drift	Drift < 12 min/year (at 2 6 s / month (at 25 °C (7	5 °C (77 °F)) 7 °F) with user-definable o	correction of drift).		

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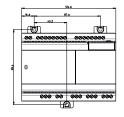
base + 2 expansions + 1 accessory (RS485) 2 expansions + 2 expansions + 1 accessory (RS485) 2 expansions + 2 expansion		XBP24	XBP24-E	XDP24	XDP24-E	
base + 2 expansions + 1 accessory (RS48b) 2 expansions + 2 expansions + 1 accessory (RS48b) 1 accessory (RS48b) 2 expansions + 3 exposer 2 expansions + 3 exposer 2 expansions + 2 expansions + 3 expansions + 4 expansion	Timer block accuracy	0.5 % ± 2 cycle time				
Stability of the internal power supply	Start up time on power up	base + 2 expansions +	< 5 s base + 2 expansions +	base + 2 expansions +		
Check the conformity of the em4 device configuration with the configuration in the application program	Self test	Test firmware integrity (checksum memory)			
Supply			,			
Nominal voltage 24 V = (-15% / +20%)		,	the em4 device configura	ition with the configuration	in the application	
Departing limits	Supply					
S 1 ms (repetition 20 times S 1 ms make S 1 ms mak	Nominal voltage	24 V (-15% / +20%)				
Max. absorbed power 3.8 W @ 24 V = 5 W @ 28 S V = 1.5 W @ 24 V = 6.2 W @ 28.8 V = 0.3 W backlight) OFF 1.5 W @ 24 V = 10 OFF 28.8 V = 1.5 W @ 24 V = 10 OFF 1.5 W @ 24 V = 10 DFF 1.5 W @ 24 V =	Operating limits	20.4 - 28.8 V				
@ 28.8 V 1.5 W @ 24 V I/O OFF @ 28.8 V 0.28.8 V 0.28.8 V 0.3 W backlight OFF 1.5 W @ 24 V I/O backlight OFF 0.5 W @ 24 V I/O backlight OFF 0.5 W @ 24 V 0.28.8 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V 0.28.8 V 0.3 W @ 24 V 0.28.8 V W	Immunity from micro power cuts	≤ 1 ms (repetition 20 tim	nes)			
Power monitoring Yes and value available through the application "FB Status", 1/10V, 5%. Inputs Digital and high speed digital inputs 24 V— - 4 inputs from I1 to I4 Input used as digital input Input used as digital input 1.8 mA @ 20.4 V 2.1 mA @ 24 V 2.5 mA @ 28.8 V Input current 1.8 mA @ 20.4 V 2.1 mA @ 24 V 2.5 mA @ 28.8 V Input impedance 11.6 kΩ Logic 1 voltage threshold ≥ 15 V— Making current at logic state 1 ≥ 1.3 mA Logic 0 voltage threshold ≤ 10 V— Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen On LCD screen Cable length Maximum counting frequency 3 channels encoder (11, 12, 13): 5 kHz* 2 independent counters (11, 12) (13, 14) (Upr/Down): 1 channels: 16 kHz*, 2 channels: 10 kHz*, 3 channels: 5 kHz* 4 independent counters (11, 12, 13, 14) (Upr/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, 3 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions	Max. absorbed power	@ 28.8 V, 1.5 W @ 24 V I/O	@ 28.8 V, 1.5W @ 24 V I/O	@ 28.8 V—, - 0.3 W backlight OFF 1.5W @ 24 V— (I/O +	1.5W @ 24 V (I/O	
Digital and high speed digital inputs 24 V 4 inputs from 11 to 14	Protection against polarity inversions	Yes				
Input used as digital inputs 24 V 4 inputs from 1 to 14	Power monitoring	Yes and value available	through the application "F	B Status", 1/10V, 5%.		
Input used as digital input Input voltage 24 V (-15% / +20%) Input current 1.8 mA @ 20.4 V	Inputs					
Input voltage 24 V: (-15% / +20%) Input current 1.8 mA @ 20.4 V 2.1 mA @ 24 V 2.5 mA @ 28.8 V Input impedance 11.6 kΩ Logic 1 voltage threshold ≥ 15 V: Making current at logic state 1 ≥ 1.3 mA Logic 0 voltage threshold ≤ 10 V: Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Contact or 3-wire PNP Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (11, 12, 13): 5 kHz* 2 independent counters (11, 12) (13, 14) (Curnul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (11, 12, 13, 14) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, * 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions	Digital and high speed digital inputs 24 V	- 4 inputs from I1 to I4				
1.8 mA @ 20.4 V 2.1 mA @ 24 V 2.5 mA @ 28.8 V Input impedance 11.6 kΩ Logic 1 voltage threshold ≥ 15 V::: Making current at logic state 1 ≥ 1.3 mA Logic 0 voltage threshold ≤ 10 V::: Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Contact or 3-wire PNP Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Isolation between inputs None Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (11, 12, 13): 5 kHz* 2 independent counters (11, 12) (13, 14) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (11, 12, 13, 14) (Up/Down): 1 channels: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz*, * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (11, 12, 13, 14) Other functions	Input used as digital input					
2.1 mA @ 24 V 2.5 mA @ 28.8 V Input impedance 11.6 kΩ Logic 1 voltage threshold ≥ 15 V:	Input voltage	24 V (-15% / +20%)				
Input impedance 11.6 kΩ Logic 1 voltage threshold ≥ 15 V:::: Making current at logic state 1 ≥ 1.3 mA Logic 0 voltage threshold ≤ 10 V::: Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Contact or 3-wire PNP Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channels: 15 kHz*, 2 channels: 10 kHz*, * * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions	Input current	2.1 mA @ 24 V				
Logic 1 voltage threshold ≥ 15 V::: Making current at logic state 1 ≥ 1.3 mA Logic 0 voltage threshold ≤ 10 V::: Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Contact or 3-wire PNP Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (11, 12, 13): 5 kHz* 2 independent counters (11, 12) (13, 14) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 4 independent counters (11, 12, 13, 14) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* 4 independent counters (11, 12, 13, 14) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions	Input impedance					
Logic 0 voltage threshold ≤ 10 V Release current at logic state 0 ≤ 0.8 mA Response time 1 to 2 cycle times Sensor type Contact or 3-wire PNP Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Isolation between inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle s 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	· · ·	≥ 15 V				
Release current at logic state 0	Making current at logic state 1	≥ 1.3 mA				
Response time 1 to 2 cycle times Sensor type Conforming to IEC/EN 61131-2 Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen On LCD screen Cable length ≤ 30 m Sa channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions	Logic 0 voltage threshold	≤ 10 V				
Sensor type Confact or 3-wire PNP Type 1 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Yes Status indicator No On LCD screen Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions		≤ 0.8 mA				
Conforming to IEC/EN 61131-2 Input type Resistive Isolation between power supply and inputs None Protection against polarity inversions Status indicator No On LCD screen On LCD screen On LCD screen Cable length ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Response time	1 to 2 cycle times				
Input type Resistive Isolation between power supply and inputs None Isolation between inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Sensor type	Contact or 3-wire PNP				
Input type Resistive Isolation between power supply and inputs None Isolation between inputs None Protection against polarity inversions Yes Status indicator No On LCD screen On LCD screen Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Conforming to IEC/EN 61131-2	Type 1				
Isolation between inputs None Protection against polarity inversions Yes Status indicator No On LCD screen Status indicator Cable length ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Input type					
Protection against polarity inversions Yes Status indicator No On LCD screen Status indicator On LCD screen Status indicator On LCD screen On LCD	Isolation between power supply and inputs	None				
Status indicator No Cable length ≤ 30 m Status indicator Stat	Isolation between inputs	None				
Cable length ≤ 30 m ≤ 30 m Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Protection against polarity inversions	Yes				
Input used as high speed digital input Maximum counting frequency 3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Status indicator	No		On LCD screen	On LCD screen	
3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz* * with a time cycle ≤ 10 ms and a ton / toff = 50% ± 5%, level 0 < 2V and level 1 > 20.4V Other functions 4 tachometers (I1, I2, I3, I4)	Cable length	≤ 30 m	≤ 30 m			
2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz^* , 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz^* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz^* , 2 channels: 10 kHz^* , > 2 channels: 5 kHz^* * with a time cycle $\le 10 \text{ ms}$ and a ton / toff $= 50\% \pm 5\%$, level $0 < 2V$ and level $1 > 20.4V$ Other functions 4 tachometers (I1, I2, I3, I4)	Input used as high speed digital input					
Other functions 4 tachometers (I1, I2, I3, I4)	Maximum counting frequency	2 independent counters 5 kHz*, 2 independent counters 4 independent counters 2 channels: 5 kHz*	2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*, 4 channels: 5 kHz*, 2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz* 4 independent counters (I1, I2, I3, I4) (Up/Down): 1 channel: 15 kHz*, 2 channels: 10 kHz*, > 2 channels: 5 kHz*			
	Other functions	*				
C 3 M with chicked twicted coble	Cable length	≤ 3 m with shielded twisted cable				

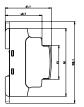
	XBP24	XBP24-E	XDP24	XDP24-E
Digital 24 V _— and analog inputs 12 bits /	28.8 V - potentiometer	- 8 inputs from I5 to IC		
Input used as digital input				
Input voltage	24 V (-15% / +20%	5)		
Input current	1.8 mA @ 20.4 V	,		
P	2.1 mA @ 24 V			
	2.5 mA @ 28.8 V			
Input impedance	11.6 kΩ			
Logic 1 voltage threshold	≥ 11 V			
Making current at logic state 1	≥ 1 mA			
Logic 0 voltage threshold	≤ 9 V			
Release current at logic state 0	≤ 0.7 mA			
Response time	1 to 2 cycle times			
Sensor type	Contact or 3-wire PN	P		
Conforming to IEC/EN 61131-2	Type 1			
Input type	Resistive			
Isolation between power supply and inputs	None			
Isolation between inputs	None			
Protection against polarity inversions	Yes			
Status indicator	No		On LCD screen	On LCD screen
Cable length	≤ 30 m			
Input used as analog input				
Measuring range	0 → 10 V. 0 → V pow	ver supply or Voltmeter		
Input impedance	11.6 kΩ			
Maximum value without destruction	28.8 V max			
Input type	Common mode			
Resolution		put voltage (10 bit at 10V)		
Value of LSB	7.03 mV	pat voltago (10 bit at 10 v)		
Conversion time	Controller cycle time			
Maximum error in 0-10V mode	± 3.5 % of full scale a	nt 25 °C (77 °F)		
Waximum end in a 100 mode	± 5 % of full scale at	, ,		
Maximum error in 0-V power supply mode	± 5 % of full scale at			
	± 6.2 % of full scale a	, ,		
Repeat accuracy at 55 °C (131 °F)	± 2 %			
Voltmeter	From 0 to 30.5 V, 5%	ı		
Isolation between analogue channel and	None			
power supply Protection against polarity inversions	Yes			
Potentiometer control		nmended), 10 KΩ max.		
Cable length		twisted cable (sensor not is	olated)	
Digital 24 V 4 inputs from ID to IG	= 10 m with officiaca	twictor dable (believi flot le	olatoay	
Input voltage	24 V (-15% / +20%	.)		
Input current	1.5 mA @ 20.4 V	7)		
input current	1.7 mA @ 24 V			
	2.1 mA @ 28.8 V			
Input impedance	13.9 kΩ			
Logic 1 voltage threshold	≥ 11 V			
Making current at logic state 1	≥ 0.8 mA			
Logic 0 voltage threshold	≤ 8 V			
Release current at logic state 0	≤ 0.5 mA			
Response time	1 to 2 cycle times			
Sensor type	Contact or 3-wire PN	P		
er vre				

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	XBP24	XBP24-E	XDP24	XDP24-E	
0 ()		ABF24-L	ADF24	ADF24-E	
Conforming to IEC/EN 61131-2	Type 1				
Input type	Resistive				
Isolation between power supply and inputs	None				
Isolation between inputs	None				
Protection against polarity inversions	No		0.100	0.100	
Status indicator	No		On LCD screen	On LCD screen	
Cable length	≤ 30 m				
Outputs					
6 A relay output - 2 outputs from O1 to O2	05014				
Breaking voltage	250 V∼ max				
Breaking current	6 A Derating: UL: ≥ 45 °C	(113 °F): 4A max			
Maximum breaking current in the common	IEC @ 25 °C (77 °F): IEC @ 60 °C (140 °F)				
Mechanical life	5 000 000 operations	(cycles)			
Electrical durability for 50 000 operating cycles	Usage category DC-12 Usage category DC-14	4: 24 V, 1.8 A 6 A, cos phi = 0.7: 5 A, c 2: 250 V, 6 A 3: 250 V, 5 A			
Minimum switching capacity	100 mA (at minimum v	oltage 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 + 8 ms typical Release = 1 cycle time + 4 ms typical				
Built-in protections	Against short-circuits: Against over voltages				
Status indicator	No On LCD screen On LCD screen				
Cable length	≤ 30 m				
8 A relay output - 6 outputs from O3 to O8					
Breaking voltage	250 V∼ max				
Breaking current	8 A	(131 °F) or UL: ≥ 45 °C	(113 °E): 6A may		
Maximum breaking current in the common	IEC @ 25 °C (77 °F):	C3, C6: 8A; C4, C5: 16 or UL: C3, C6: 8 A; C4,	A		
Mechanical life	20 000 000 operations (cycles)				
Electrical durability for 50 000 operating cycles	Usage category DC-12 Usage category DC-14	4: 24 V, 1.5 A B A, cos phi = 0.7: 4.75 A 2: 250 V, 8 A 3: 250 V, 4.3 A			
Minimum switching capacity	100 mA (at minimum v	oltage of 12V)			
Maximum operating rate	Off load: 10 Hz At operating current: 0).1 Hz			
Voltage for withstanding shocks		C/EN 60947-1 and IEC/I	EN 60664-1: 4 kV		
Response time	Make = 1 cycle time + Release = 1 cycle time	* *			
Built-in protections	Against short-circuits: Against over voltages				

	XBP24	XBP24-E	XDP24	XDP24-E
Status indicator	No		On LCD screen	On LCD screen
Cable length	≤ 30 m			
Ethernet network				
Programming / exploitation	-	USB & Ethernet port / Ethernet port	-	USB & Ethernet port / Ethernet port
Ethernet connection	-	Type RJ45, 10/100 Mbit/s, MDI/ MDIX	-	Type RJ45, 10/100 Mbit/s, MDI/ MDIX
Adressage	-	Static or dynamic (DHCP server / Auto IP)	-	Static or dynamic (DHCP server / Auto IP)
Protocols	-	Modbus TCP (client / server), Discovery, UDP, TCP, SMTP, SSL (workshop communication via Ethernet)	-	Modbus TCP (client / server), Discovery, UDP, TCP, SMTP, SSL (workshop communication via Ethernet)
Cable length	-	Maximun length between 2 devices: 100 m / 3937 inch	-	Maximun length between 2 devices: 100 m / 3937 inch
Ethernet earthing	-	Yes, refer to the quick reference guide supplied with the product	-	Yes, refer to the quick reference guide supplied with the product
Technical sketches				
Dimensions (mm)				
	XBP24	XBP24-E	XDP24	XDP24-E

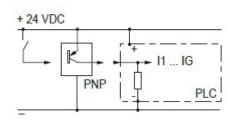


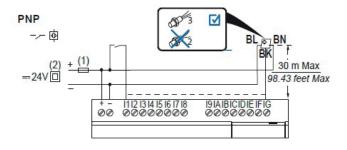


Connections

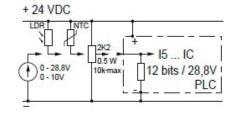
INPUTS

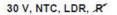


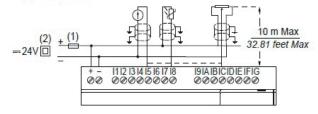




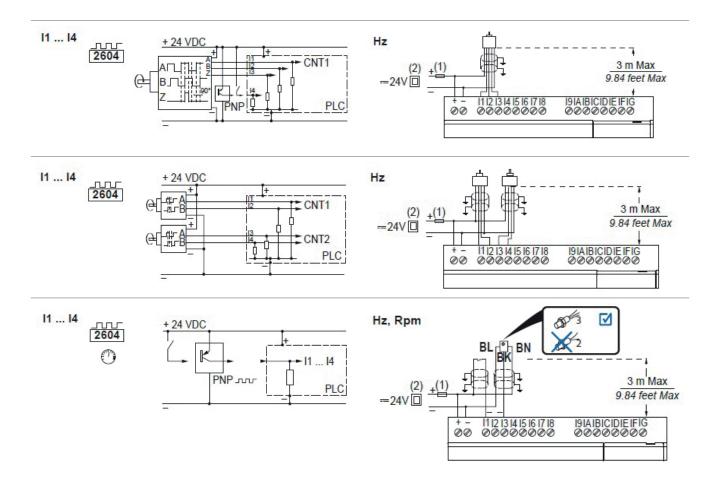


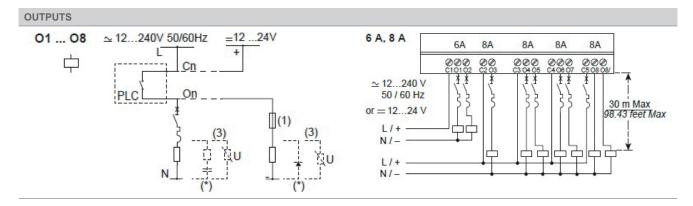






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