Variable frequency drive, 230 V AC, 3-phase, 7 A, 1.5 kW, IP66/NEMA 4X, Radio interference suppression filter, 7-digital display assembly, Additional PCB protection, UV resistant, FS1



Part no. DC1-327D0FN-A660E1 199415

Product name	Eaton DC1 Variable frequency drive
Part no.	DC1-327D0FN-A660E1
EAN	4015081978045
Product Length/Depth	162 millimetre
Product height	232 millimetre
Product width	161 millimetre
Product weight	2.5 kilogram
Certifications	UL Category Control No.: NMMS, NMMS7 IEC/EN61800-5 UkrSEPR0 IEC/EN 61800-2 EAC CSA-C22.2 No. 14 Certified by UL for use in Canada RCM UL Listed UL report applies to both US and Canada CE UL IEC/EN 61800-3 UL 508C CUL ROHS, ISO 9001 UL File No.: E172143 CE marking IEC/EN 61800-5-1
Product Tradename	DC1
Product Type	Variable frequency drive
Product Sub Type	None
Catalog Notes	Environmental class: 3C3, 3S3 Overload cycle for 60 s every 600 s For normal internally and externally ventilated four-pole three-phase asynchronomous with 1500 rpm at 50 Hz and 1800 rpm at 60 Hz
Factoria	Parameterization: drivesConnect
Features	Parameterization: drives Connect Parameterization: Fieldbus Parameterization: Keypad Parameterization: drives Connect mobile (App)
Fitted with:	PC connection Control unit IGBT inverter Internal DC link Radio interference suppression filter 7-digital display assembly Additional PCB protection UV resistance
Cable length	75 m, unscreened, maximum permissible, Motor feeder 100 m, screened, with motor choke, maximum permissible, Motor feeder 50 m, screened, maximum permissible, Motor feeder 150 m, unscreened, with motor choke, maximum permissible, Motor feeder
Communication interface	Modbus RTU, built in CANopen®, built in OP-Bus (RS485), built in SmartWire-DT, optional
Connection to SmartWire-DT	No
Degree of protection	IP66 NEMA 4X
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Frame size	FS1
Mounting position	Vertical
Product category	Variable frequency drives

Protection Protocol	Finger and back-of-hand proof, Protection against direct contact (BGV A3, VB CAN
Toucoi	EtherNet/IP MODBUS Other bus systems
Radio interference class	C2, C3: depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary. Optional external radio interference suppression filter for longer motor cable lengths and for use in different EMC environments
Suitable for	Branch circuits, (UL/CSA)
Altitude	Above 1000 m with 1 % derating per 100 m Max. 4000 m
Ambient operating temperature - min	-20 °C
Ambient operating temperature - max	40 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	60 °C
Climatic proofing	< 95 average relative humidity (RH), no condensation, no corrosion
Heat dissipation at current/speed	97 % (η) 37 W at 25% current and 0% speed 37 W at 25% current and 50% speed 44 W at 50% current and 0% speed 48 W at 50% current and 50% speed 54 W at 50% current and 90% speed 58 W at 100% current and 0% speed 69 W at 100% current and 50% speed 81 W at 100% current and 90% speed
nput current ILN at 150% overload	9.5 A
Leakage current at ground IPE - max	7.5 mA
Mains switch-on frequency	Maximum of one time every 30 seconds
Mains voltage - min	200 V
Mains voltage - max Operating mode	240 V BLDC motors U/f control Speed control with slip compensation Sensorless vector control (SLV) PM motors Synchronous reluctance motors
Output frequency - min	0 Hz
Output frequency - max	500 Hz
Output voltage (U2)	230 V AC, 3-phase 240 V AC, 3-phase
Overload current IL at 150% overload	10.5 A
Rated control supply voltage	10 V DC (Us, max. 10 mA)
Rated frequency - min	48 Hz
Rated frequency - max	62 Hz
Rated operational current (le)	7 A at 150% overload (at an operating frequency of 6 kHz and an ambient air temperature of +40 °C)
Rated operational power at 220/230 V, 50 Hz, 1-phase	1.5 kW
Rated operational voltage	230 V AC, 3-phase 240 V AC, 3-phase
Resolution	0.1 Hz (Frequency resolution, setpoint value)
Short-circuit protection rating	10 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Pow Wiring
Starting current - max	175 %, IH, max. starting current (High Overload), For 2.5 seconds every 600 seconds, Power section
Supply frequency	50/60 Hz
Switching frequency	8 kHz, 4 - 32 kHz adjustable (audible), fPWM, Power section, Main circuit
System configuration type	AC supply systems with earthed center point
/oltage rating - max	240 V
Assigned motor current IM at 110/120 V, 60 Hz, 150% overload	6.8 A
Assigned motor current IM at 115 V, 50 Hz, 150% overload	6.3 A

observed.		
Assigned motor current M at 440 - 480 V, 60 Hz, 1976 poerhoad Assigned motor power at 150/192 V, 60 Hz, 1-phase Assigned motor power at 150/192 V, 60 Hz, 1-phase Assigned motor power at 450/480 V, 60 Hz, 1-phase Assigned motor power at 450/480 V, 60 Hz, 1-phase Assigned motor power at 450/480 V, 60 Hz, 3-phase Assigned motor power at 450/480 V,	Assigned motor current IM at 230 V, 50 Hz, 150% overload	6.3 A
Assigned motor power at 1311/20 V, 80 Hz, 1-phase Assigned motor power at 400480 V, 80 Hz, 1-phase Assigned motor power at 400480 V, 80 Hz, 1-phase Assigned motor power at 400480 V, 80 Hz, 3-phase Apparent power at 200 V Assigned motor power at 400480 V, 80 Hz, 3-phase Braking torque Braking torque Braking torque Braking torque Braking torque Apparent power at 200 V Apparent power	Assigned motor current IM at 400 V, 50 Hz, 150% overload	6.3 A
Assigned matter grower at 2002/04 (v. 60 Hz, 1-phase) Assigned matter grower at 4000/04 (v. 60 Hz, 2-phase) Apparent power at 4000/04 (v. 60 Hz, 2-phase) Apparent power at 4000/04 (v. 60 Hz, 2-phase) Braking sorque Braking sorque Braking sorque Max. 20 % Max. 100 % of rated operational current la, variable, DC - Main circuit Max. 20 % Max, Sta Ms, Standard - Main circuit Max. 20 % Ms, Standard - Main circuit Number of inputs (sightal) Number of outputs (sightal) Number of outputs (sightal) 1 (parameterizable, 10 - 10 V DC, 04 - 20 mA) Number of outputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of outputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) 1 (parameterizable, NO, 6 A (250 V, AC-1) / 5 A (90 V, DC-1) Number of insputs (sightal) Number of insputs (Assigned motor current IM at 440 - 480 V, 60 Hz, 150% overload	6.8 A
Assigned motor power at 460/480 V, 60 Hz Assigned motor power at 460/480 V, 60 Hz, 3-phase 2 HP Apparent power at 200 V Appa	Assigned motor power at 115/120 V, 60 Hz, 1-phase	2 HP
Asgind motor power at 450-V6 V, 50 Hz, 3-phase Apparent power at 220 V Apparent power at 220 V Apparent power at 220 V Braking brique Max. 10 % of sated operational current le, variable, DC - Main circuit Max. 10 % of sated operational current le, variable, DC - Main circuit Apparent power at 240 V Braking brique Braking brique Apparent power at 240 V Apparent power at 240 V Braking brique Braking brique Apparent power at 240 V	Assigned motor power at 230/240 V, 60 Hz, 1-phase	2 HP
Apparent power at 200 V Appare	Assigned motor power at 460/480 V, 60 Hz	2 HP
Apparent power at 240 V Braking torque Max. 100 % of rated operational current is, variable, DC - Main circuit Micc. 20 % NN, Standard - Main circuit Number of inputs (eights) Number of outputs	Assigned motor power at 460/480 V, 60 Hz, 3-phase	2 HP
Apparent power at 240 V Braking torque Max. 100 % of rated operational current is, variable, DC - Main circuit Micc. 20 % NN, Standard - Main circuit Number of inputs (eights) Number of outputs		
Braking torque Max. 10% of rated operational current lo, variable, DC - Main circuit Max. 30 % MN, Standard - Main circuit Max. 100 % of rated operational current lo, variable, DC - Main circuit Max. 30 % MN, Standard - Main circuit Adjurnmeterizable, D - 10 V DC, 64 - 20 mA) 4 (parameterizable, D - 30 V DC) Number of orlay outputs 1 (parameterizable, N/I), 8 A (250 V, AC-11/5 A (30 V, DC-11) Number of orlay outputs 1 (parameterizable, N/I), 8 A (250 V, AC-11/5 A (30 V, DC-11) Heat dissipation capacity Pdiss 1 (parameterizable, N/I), 8 A (250 V, AC-11/5 A (30 V, DC-11) 1	Apparent power at 230 V	2.79 kV-A
Number of inputs (analog) Number of inputs (digital) Number of inputs (digital) Number of outputs (digital) Number of relay outputs I (parameterizable, N/O, 6 A (250 V, AC-1)/5 A (30 V, DC-1)) Number of relay outputs Number of outputs (digital) Number of relay outputs Number of outputs (digital) Number of relay outputs Number of	Apparent power at 240 V	2.91 kV-A
Number of inputs (analog) Number of inputs (digital) Number of inputs (digital) Number of outputs (digital) Number of relay outputs I (parameterizable, N/O, 6 A (250 V, AC-1)/5 A (30 V, DC-1)) Number of relay outputs Number of outputs (digital) Number of relay outputs Number of outputs (digital) Number of relay outputs Number of		
Number of inputs (analog) Number of inputs (digital) Number of outputs (digital) Number of relay outputs Number of	Braking torque	·
Number of inputs (digitals) Number of outputs (analog) Number of outputs (digital) Number of relay outputs Heat dissipation capacity Pdiss DW Heat dissipation capacity Pdiss DW Heat dissipation capacity Pdiss DW Heat dissipation per pole, current-dependent Pvid DV Heat dissipation per pole, current-dependent Pvid DV Meets the product standard's requirements. Decay 102.23.1 Verification of thermal stability of enclosures DC2.3.1 Verification of thermal stability of enclosures DC2.3.24 Verification of resistance of insulating materials to normal heat DC2.3.24 Verification of resistance of insulating materials to normal heat/fire by internal elect. effects DC2.3.4 Resistance to ultra-violet (UV) radiation DC2.5.4 Resistance to ultra-violet (UV) radiation DC2.5.4 Resistance to ultra-violet (UV) radiation DC2.6 Mechanical impact DC2.6 Mechanical impact DC2.7 Inscriptions DC2.8 Insulation of examplisis DC2.7 Inscriptions DC2.8 Insulation of examplisis DC2.7 Inscriptions DC2.8 Insulation of existence on decay of examplisis DC2.7 Inscriptions DC2.8 Insulation of existence on decisions DC2.7 Inscriptions DC2.8 Insulations of existence on decisions DC2.8 Insulations of existence on decisions DC3.8 Insulations of existence on decisions		
Number of inputs (digitals) Number of outputs (analog) Number of outputs (digital) Number of relay outputs Heat dissipation capacity Pdiss DW Heat dissipation capacity Pdiss DW Heat dissipation capacity Pdiss DW Heat dissipation per pole, current-dependent Pvid DV Heat dissipation per pole, current-dependent Pvid DV Meets the product standard's requirements. Decay 102.23.1 Verification of thermal stability of enclosures DC2.3.1 Verification of thermal stability of enclosures DC2.3.24 Verification of resistance of insulating materials to normal heat DC2.3.24 Verification of resistance of insulating materials to normal heat/fire by internal elect. effects DC2.3.4 Resistance to ultra-violet (UV) radiation DC2.5.4 Resistance to ultra-violet (UV) radiation DC2.5.4 Resistance to ultra-violet (UV) radiation DC2.6 Mechanical impact DC2.6 Mechanical impact DC2.7 Inscriptions DC2.8 Insulation of examplisis DC2.7 Inscriptions DC2.8 Insulation of examplisis DC2.7 Inscriptions DC2.8 Insulation of existence on decay of examplisis DC2.7 Inscriptions DC2.8 Insulation of existence on decisions DC2.7 Inscriptions DC2.8 Insulations of existence on decisions DC2.8 Insulations of existence on decisions DC3.8 Insulations of existence on decisions	Number of inputs (analog)	2 (parameterizable, 0 - 10 V DC, 0/4 - 20 mA)
Number of outputs (analog) Number of outputs (digital) Number of relay outputs (I (parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)) Heat dissipation capacity Pdiss (I (parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)) Heat dissipation capacity Pdiss (I (
Number of outputs (digital) Number of relay outputs 1 (parameterizable, N/0, 6 A (250 V, AC-11)/5 A (30 V, DC-1)) Heat dissipation capacity Pdiss 0 W 10.22 Corrosion resistance 10.23.1 Verification of thermal stability of enclosures 10.23.2 Verification of thermal stability of enclosures 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist of insul. mat. to abnormal heatfire by internal elect. effects 10.24.4 Resistance to ultra-violet (UV) radiation 10.25. Lifting 10.25 Lifting 10.25 Mechanical impact 10.26 Mechanical impact 10.27 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Internal electrical circuits and connections 10.9 Internal electric sponsibility. 10.9 Internal electrical circuits and connections 10.9 Internal electri		
Number of relay outputs Heat dissipation capacity Pdiss Heat dissipation per pole, current-dependent Pvid 10.22 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violat (UV) radiation 10.2.5 Lifting 10.2.6 Meets the product standard's requirements. 10.2.6 Rechanical impact 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.9 Tone of protection of assemblies 10.3.0 Egree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Inscriptions 10.8 Connections for external conductors 10.9 Power-frequency electric strend 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Connections for external conductors 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Incorporation of switching devices and components 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Incorporation of switching devices and components 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Incorporation of switching devices and components 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Incorporation of switching devices and components 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.8 Incorporation of switching devices and components 10.9 Incorporation of switching devices and components 10.9 Incorporation of switching devices and connections 10.9 Incorporation of switching devices and connections 10.9 Incorporation of switching devices and components	, , , , , , , , , , , , , , , , , , ,	1
Heat dissipation per pole, current-dependent Pvid 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heatfire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets me product standard's requirements. 10.2.7 Inscriptions Meets the product standard's requirements. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.1 Short-circuit rating 10.1 Short-circuit rating 10.2 Is the panel builder's responsibility. 10.3 Internal electrical circuits and connections for the switchgear must be observed. 10.1.1 Short-circuit rating 10.1.2 Electromagnetic compatibility 10.2 Short exercises the requirements. 10.3 Internal electrical circuits and connections for the switchgear must be observed.		1 (parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1))
Heat dissipation per pole, current-dependent Pvid 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heatfire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets the product standard's requirements. 10.2.6 Meets me product standard's requirements. 10.2.7 Inscriptions Meets the product standard's requirements. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.1 Short-circuit rating 10.1 Short-circuit rating 10.2 Is the panel builder's responsibility. 10.3 Internal electrical circuits and connections for the switchgear must be observed. 10.1.1 Short-circuit rating 10.1.2 Electromagnetic compatibility 10.2 Short exercises the requirements. 10.3 Internal electrical circuits and connections for the switchgear must be observed.		
Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.1 The panel builder's responsibility. 10.3 Impulse withstand voltage 10.1 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Meets the product standard's requirements. 10.2 Meets the product standard's requirements. 10.2 Des not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Meets the product standard's requirements. 10.15 Meets the product standard's requirements. 10.26 Meets the product standard's requirements. 10.27 Meets the product standard's requirements. 10.28 Meets the prod	Heat dissipation capacity Pdiss	0 W
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resists. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Meets the product standard's requirements. 10.3.0 Egree of protection of assemblies 10.3.0 Egree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.1 Tepanel builder's responsibility. 10.9.3 Impulse withstand voltage 10.1 Tepanel builder's responsibility. 10.10 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Meets the product standard's requirements. 10.2 Meets the product standard's requirements. 10.2 Product standard's requirements. 10.2 Product standard's requirements. 10.2 Power-frequency electric shock 10.3 Impulse withstand voltage 10.4 Internal electrical circuit sand connections 10.5 Internal electrical circuit sand connections 10.6 Incorporation of switching are needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.8 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.10 Internal electrical circuits and connections 10.10 Internal electrical circuits and connections 10.10 I	Heat dissipation per pole, current-dependent Pvid	0 W
10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.2.7 Inscriptions 10.2.8 Verification of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Insurprivative withstand voltage 10.9 Tengerature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. 10.15 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The devic	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating List the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction.	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating List the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction.	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Nower-frequency electric strength 10.9 Is the panel builder's responsibility. 10.9 The panel builder is responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Electromagnetic compatibility 10.15 The device meets the requirements, provided the information in the instruction	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9.1 Esting of enclosures made of insulating material 10.9 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.2 Heeting of enclosures mode of the witchgear meds to be evaluated. 10.14 Step panel builder's responsibility. 10.15 The panel builder's responsibility. 10.16 The panel builder's responsibility. 10.17 The panel builder's responsibility. 10.18 Lectromagnetic compatibility 10.19 Lectromagnetic compatibility 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Edvice meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
Meets the product standard's requirements. 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction.	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Clearances and creepage distances Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction of the device of the device of the switchgear must be observed.	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. In panel builder is responsibility. In panel builder is responsibility. In panel builder is responsibility. The specifications for the switchgear must be observed. In the panel builder's responsibility. The specifications for the switchgear must be observed. In the panel builder's responsibility and the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements, provided the information in the instruction of the evice meets the requirements o	10.2.7 Inscriptions	Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder is responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Entire switching and connections 10.15 Is the panel builder's responsibility. 10.16 Is the panel builder's responsibility. 10.17 Internal electrical circuits and connections 10.18 the panel builder's responsibility. 10.19 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Electromagnetic provided the information in the instruction	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the instruction of the device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 1 Is the panel builder's responsibility. 1 Is the panel builder's responsibility. 1 Is the panel builder's responsibility. 1 Is the panel builder is responsibility. 1 Is the panel builder is responsibility. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.10 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function 10.14 Electrometric strength 15 the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Mechanical function 10.12 Electrometric strength 10.13 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.14 Electrometric strength 10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Testing of enclosures made of insulating material 15 the panel builder's responsibility. The temperature rise calculation. Eaton will provide heat dissipation data for the devices. 15 the panel builder's responsibility. The specifications for the switchgear must be observed. 16 the panel builder's responsibility. The specifications for the switchgear must be observed. 17 The device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
provide heat dissipation data for the devices. 10.11 Short-circuit rating 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.10 Temperature rise	
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function	

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)						
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kV (ecl@ss10.0.1-27-02-31-01 [AKE177014])						
Mains voltage	,	V	200 - 240			
Mains frequency			50/60 Hz			
Number of phases input			3			
Number of phases output			3			
Max. output frequency		Hz	500			
Max. output voltage	,	V	250			

Nome in contract	N		-
Mate. valued at linear load at rated surpart voltage My 15 Relative symment on the replace polisomence % 10 Number of an langing norigine % 10 Number of an langing norigine % 10 Number of all giplan longton % 1 Application in member at an apprentiand % 1 Application in member at an apprentiand % 1 Supparing protected for 1CPIP % 1 Supparing protected for MTCPUBS % 1 Supparing protected for MTCPUBS % 1 1 Supparing protected for MTCPUBS % 1 2 Supparing protected for MCK % 1 2	Nominal output current I2N	A	7
Bibbliots symmetric and traippound protections \$ 10 Bibblioth of strategous prints 2 1 Number of strategous prints 2 2 Number of sighal prints 4 2 Number of sighal prints 4 4 Number of sighal prints 4 4 Number of sighal prints 4 4 Application in notionated area permitted 7 8 Application in notionated area permitted 8 9 10 Supparting processor for ROPISIUS 8 9 10 9 Supparting processor for ROPISIUS 9 10 9 10			
Relative symmetric net voltage nationates N 1 Number of inshipsee excusor 1 1 Number of inshipsee relational polity 2 2 Number of ingland corpus 4 4 With earth of ingland corpus 4 4 Supporting protected for DRITIFERIS 6 8 Supporting protected for DRITIFERIS 8 8			
Number of almakopan natus 2 Number of algala inspusa 1 Number of algala inspusa 1 Number of algala inspusa 4 Number of algala inspusa 4 Number of algala inspusa 9 Nobicacida di industrial area permitted 9 Application in industrial area permitted 1 Supporing posticular for CNDP 80 Supporing posticular for PRDFBISS 1 Supporing posticular for CNDP 1 Supporing posticular for KN 1 Supporing posticular for Multipus			
Number of gindlinguing 2 1 Number of gind indiguing 4 4 Will control allomers 4 8 Will control allomers 4 8 Application in industrial man parmitud 9 8 Application in industrial man parmitud 9 10 Supporting protocol for CPUP 10 10 Supporting protocol for CPUP 10 10 Supporting protocol for DRIPSIS 10 10 Supporting protocol for MYTERUS 10 10 Supporting protocol for MYTERUS 10 10 Supporting protocol for Drivar Mate 10 10		%	
Numbur of diginal outpuis 4 Application in industrial area permitted 9 Supparting princes for the TRUTHUS 10 Supparting princes for the TRUTHUS 10 Supparting protect of the TruthUS 10			
Nomber of diginal injunits 4 Will control aliments 12 Application in notinetish are a permitted 2 Application in notinetish are a permitted 2 Supporting protect for CPPIPS 4 Supporting protect for CPPIPSUS 4 Supporting protect for CAN 4 Supporting protect for DAN 4 Supporting protect for ESCORT 4 Supporting protect for ESCORT 4 Supporting protect for FROMETIC CAN 4			2
With control element Yes Application in industrial may elemented Yes Supporting protocol for ICPIP No Supporting protocol for ICPIP No Supporting protocol for ICPIP No Supporting protocol for ACA No Supporting protocol for MARTHURS No Supporting protocol for FROMETIC No Supporting pr			1
Application in industrial area permitted Yes Application in industrial area permitted Yes Supporting protect for 10/19* No Supporting protect for 10/19* No Supporting protect for 10/18* No Supporting protect for INTERBUS No Supporting protect for ASI No Supporting protect for Defettles No Supporting protect for PROPERE IC No Supporting protect for PROPERE ICA No <td>Number of digital inputs</td> <td></td> <td>4</td>	Number of digital inputs		4
Application in domestic and commercial area permitted 1 Na Supporting practice for TCP/IPP 0 Na Supporting pratect for TCP/IPP 2 Yes Supporting pratect for CAN 1 Na Supporting pratect for NTERBUS 0 Na Supporting pratect for KNX 1 Na Supporting pratect for KNX 1 Na Supporting pratect for Charal-sideway 0 Na Supporting pratect for Charal-sideway 0 Na Supporting pratect for SUDDIVET 0 Na Supporting pratect for SUDDIVET ID 0 Na Supporting pratect for PROPERT ID Na Na Supporting pratect for Properties I Fallows Na Na Supporting pratect for Properties I Fallows Na Na Supporting pratect for Properties I Fallows Na Na Supporting pratect for Prope	With control element		Yes
Supporting protocol for TCP/IP No Supporting protocol for PMDRIBUS ' Yes Supporting protocol for NTSRBUS No No Supporting protocol for XEX No No Supporting protocol for KEX No No Supporting protocol for Modbus No No Supporting protocol for Deba-Highway No No Supporting protocol for Deba-Highway No No Supporting protocol for Deba-Highway No No Supporting protocol for DEDNIX No No Supporting protocol for DEDNIX No No Supporting protocol for DEDNIX No No Supporting protocol for PRDRIBET CBA No No Supporting protocol for PRDRIBET CBA No No Supporting protocol for Ebb-HarlP Yes No Supporting protocol for PRDRIBET CBA No No Supporting protocol for Ebb-HarlP Yes No Supporting protocol for Ebb-HarlP No No Supporting protocol for Ebb-HarlP No No	Application in industrial area permitted		Yes
Supporting protection CAN 1 Yes Supporting protection CAN 1 No Supporting protection CNTRIBUS 1 No Supporting protection CAN 1 No Supporting protection CANCAN 1 No Supporting protection CANCAN 1 No Supporting protection CANCAN 1 No Supporting protection Controllar-Highway 1 No Supporting protection CANCAN 1 No Supporting protection CANCANANANANANANANANANANANANANANANANANA	Application in domestic- and commercial area permitted		Yes
Supporting protected for INTERBUS % Supporting protected for GLOCANT % Supporting protected for SUCINET % Supporting protected for PROTNET IO % Supporting protected for PROTNET EAS % Supporting protected for PROTNET EAS % Supporting protected for Formalation Fieldbus	Supporting protocol for TCP/IP		No
Supporting protocol for INVERBUS No Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for Orbital-Hollway No Supporting protocol for Drata Hollway No Supporting protocol for Drata Hollway No Supporting protocol for SUGNET No Supporting protocol for SUGNET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET IOS No Supporting protocol for Foundation Fidebus No Supporting protocol for Professed Safety	Supporting protocol for PROFIBUS		No
Supporting protocol for RNX () No Supporting protocol for RNX () No Supporting protocol for Modebus () No Supporting protocol for Devicable () No Supporting protocol for Devicable () No Supporting protocol for Devicable () No Supporting protocol for EVIN No No Supporting protocol for FROFINET IO No No Supporting protocol for FROFINET BA () No Supporting protocol for DeviceNut Saftya Wurk () No Supporting protocol for Saftya BUS Saftya () No Supporting protocol for Saftya BUS Saftya () No Su	Supporting protocol for CAN		Yes
Supporting protocol for MMX () Yes Supporting protocol for Modubas () Yes Supporting protocol for DeuceNet () No Supporting protocol for ENECOMET () No Supporting protocol for ENECOMET () No Supporting protocol for PROFINET DBA () No Supporting protocol for PROFINET CBA () No Supporting protocol for ENECOMET () No Supporting protocol for Enecoded Energy at Work () No Supporting protocol for DeviceNet Safety () No Supporting protocol for DeviceNet Safety at Work () No Supporting protocol for PROFISSA () No Supporting protocol for Safety at Work () No Supporting protocol for Modester Safety () No Supporting protocol for Modester Safety () No	Supporting protocol for INTERBUS		No
Supporting protocol for Duta-Highway 8 Na Supporting protocol for Duta-Highway 8 Na Supporting protocol for Duta-Highway 8 Na Supporting protocol for DUCNET 9 Na Supporting protocol for DUCNET 9 Na Supporting protocol for PROFINET IO 9 Na Supporting protocol for PROFINET GA 9 Na Supporting protocol for FRORINET GA 9 Na Supporting protocol for PROFIsats 9 Na Supporting protocol for Subrevilla Ga 9 Na Supporting protocol for Subrevilla Ga 9 Na Supporting protocol for Subrevilla Ga 9 Na	Supporting protocol for ASI		No
Supporting protocol for Deta-Highway Na Supporting protocol for DeviaeNet Na Supporting protocol for DeviaeNet Na Supporting protocol for DNA Na Supporting protocol for FROFINET DGA Na Supporting protocol for EMANUP Na Supporting protocol	Supporting protocol for KNX		No
Supporting protocol for DeviceNat 6 6 8 <t< td=""><td>Supporting protocol for Modbus</td><td></td><td>Yes</td></t<>	Supporting protocol for Modbus		Yes
Supporting protocol for SUCONET No Supporting protocol for FRORNET CBA No Supporting protocol for PRORNET CBA No Supporting protocol for PRORNET CBA No Supporting protocol for ERECOS No Supporting protocol for ERECOS No Supporting protocol for Endedbus Yes Supporting protocol for Endedbus No	Supporting protocol for Data-Highway		No
Supporting protocol for PROINET IO Mo. Supporting protocol for PROINET GA Mo. Supporting protocol for PROINET GA Mo. Supporting protocol for SERCOS Mo. Supporting protocol for Fundation Fieldbus Mo. Supporting protocol for Fundation Fieldbus Mo. Supporting protocol for Self-Next/IP Mo. Supporting protocol for As-Interface Salety at Work Mo. Supporting protocol for Next-Next/IP Mo. Supporting protocol for PROIStad Mo. Supporting protocol for PROIStad Mo. Supporting protocol for PROIStad Mo. Supporting protocol for SaletyBUS P Mo. Supporting protocol for PROIStad Mo. Supporting protocol for SaletyBUS P Mo. Supporting protocol for SaletyBUS P Mo. Supporting protocol for Other bus systems Mo. Number of HW-interfaces industrial Ethernet Mo. Number of HW-interfaces RPGIFNET Mo. Number of HW-interfaces RS-23 Mo. Number of HW-interfaces RS-24 Mo. Number of HW-interfaces US Mo. </td <td>Supporting protocol for DeviceNet</td> <td></td> <td>No</td>	Supporting protocol for DeviceNet		No
Supporting protocol for PROFINETIO Image: Imag	Supporting protocol for SUCONET		No
Supporting protect for PROFINET CBA Mo Supporting protect for SERCOS No Supporting protect for EtherNet/IP Mo Supporting protect for EtherNet/IP Mo Supporting protect for EtherNet/IP Mo Supporting protect for Percented Safety at Work Mo Supporting protect for Percented Safety at Work Mo Supporting protect for Percented Safety Mo Supporting protect for InvEREBUS-Safety Mo Supporting protect for PROFIsate Mo Supporting protect for SafetyBUS p Mo Supporting protect for SafetyBUS p Mo Supporting protect for BACnet Mo Supporting protect for Machae Mo Supporting protect for Machae Mo Supporting protect for Machae Mo Supporting protect for SafetyBUS p Mo Supporting protect for SafetyBUS p Mo Supporting protect for Machae Mo Number of HW-interfaces RS-328 Mo Number of HW-interfaces RS-422 Mo Number of HW-interfaces parallal Mo Number of HW-interfaces pa	Supporting protocol for LON		No
Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo Supporting protocol for EnviewUP Mo Supporting protocol for AS-Interface Safety at Work Mo Supporting protocol for InVERBUS-Safety Mo Supporting protocol for INTERBUS-Safety Mo Supporting protocol for SafetyBUS p Mo Supporting protocol for SafetyBUS p Mo Supporting protocol for BACnet Mo Supporting protocol for SafetyBUS p Mo Supporting protocol for SafetyBUS p Yo Number of HW-interfaces RS-SafetyBUS p Yo Number of HW-interfaces industria Ethernet Yo Number of HW-interfaces RS-SafetyBUS p Yo Number of HW-interfaces RS-SafetyBUS p Yo Number of HW-interfaces Industria Ethernet Yo Number of HW-interfaces RS-SafetyBUS p Yo Number of HW-interfaces RS-SafetyBUS p Yo Number of HW-interfaces RS-429 Yo Number of HW-interfaces SafetyBUS p Yo Number of HW-interfaces SafetyBUS p Yo Victo policia interface Yo	Supporting protocol for PROFINET IO		No
Supporting protocol for Foundation Fieldbus Mo Supporting protocol for EtherNevIIP Mo Supporting protocol for Ab-Interface Safety at Work Mo Supporting protocol for DeliceNet Safety Mo Supporting protocol for INTERBUS-Safety Mo Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for Other bus systems Mo Number of HW-interfaces industrial Ethernet Mo Number of HW-interfaces RS-322 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-425 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces parillel 0 With ptical interface No With ptical interface No With ptical interface No With ptical interface No With ptical interface No <	Supporting protocol for PROFINET CBA		No
Supporting protocol for EtherNavIP Personance of the Content of Sales (Content of Sales) Personance of Content of Content of Sales (Content of Sales) Personance of Content of	Supporting protocol for SERCOS		No
Supporting protocol for As-Interface Safety at Work No Supporting protocol for DeviceNat Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for FNDFlase No Supporting protocol for SafetyBUS p No Supporting protocol for BAChet No Supporting protocol for Other bus systems Yes Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-245 0 Number of HW-interfaces RS-485 0 Number of HW-interfaces RS-485 0 Number of HW-interfaces striet 0 <td>Supporting protocol for Foundation Fieldbus</td> <td></td> <td>No</td>	Supporting protocol for Foundation Fieldbus		No
Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for BACHACHACHACHACHACHACHACHACHACHACHACHACHA	Supporting protocol for EtherNet/IP		Yes
Supporting protocol for INTERBUS-Safety No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for BACnet No Supporting protocol for other bus systems Yes Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces PROFINET 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-425 0 Number of HW-interfaces RS-485 0 Number of HW-interfaces RS-485 0 Number of HW-interfaces parallel 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With pcconnection 0 With pcconnection possible No Vide pcconnection possible No Opegree of protection (IP) No Degree of protection (IPE) Vicenverter Degree of protection (NEMA) Mm 32 Height Mm 32			No
Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for BACnet No Supporting protocol for other bus systems Yes Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces PROFINET 0 Number of HW-interfaces Profited S-45 0 Number of HW-interfaces S-42 0 Number of HW-interfaces USB 0 Number of HW-interfaces USB 0 Number of HW-interfaces other 0 With PC connection Yes Integrated breaking resistance No A-quadrato peration possible Yes Type of converter Yes Degree of protection (IPEMA) Yes Beight	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SACret No Supporting protocol for BACret Yes Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces PROFINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces RS-428 1 Number of HW-interfaces RS-485 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces barellel 0 Number of HW-interfaces parallel 0 With optical interface 0 With Optical interface 0 With PC connection 0 Integrated breaking resistance 0 4-quadrant operation possible 0 5-cype of converter 0 0 converter 0 0 converter 0 0 converter 0 0 converter	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for SACret No Supporting protocol for BACret Yes Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces PROFINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces RS-428 1 Number of HW-interfaces RS-485 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces barellel 0 Number of HW-interfaces parallel 0 With optical interface 0 With Optical interface 0 With PC connection 0 Integrated breaking resistance 0 4-quadrant operation possible 0 5-cype of converter 0 0 converter 0 0 converter 0 0 converter 0 0 converter	Supporting protocol for PROFIsafe		No
Supporting protocol for other bus systems Yes Number of HW-interfaces industrial Ethernet 0 Number of interfaces PR0FINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With pC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter Venoverter Degree of protection (IP) P66 Degree of protection (NEMA) Mm 32 Height mm 32 Width mm 161			No
Supporting protocol for other bus systems Yes Number of HW-interfaces industrial Ethernet 0 Number of interfaces PR0FINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With pC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter Venoverter Degree of protection (IP) P66 Degree of protection (NEMA) Mm 32 Height mm 32 Width mm 161			
Number of HW-interfaces industrial Ethernet 0 Number of interfaces PROFINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces userial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other No With Optical interface No With PC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter U converter Degree of protection (IP) Pi66 Degree of protection (NEMA) Mm 232 With Height mm 161			
Number of interfaces RR0FINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With PC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter U converter Degree of protection (IP) IP66 Degree of protection (NEMA) 4X Height mm 232 Width mm 232 Width mm 200			
Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With PC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter U converter Degree of protection (IP) IP66 Degree of protection (NEMA) Mm 232 Width mm 161			
Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With PC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter U converter Degree of protection (IP) IP66 Degree of protection (NEMA) 4X Height mm 232 Width mm 202 Width mm 202			
Number of HW-interfaces RS-485 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interface No With PC connection Yes Integrated breaking resistance No 4-quadrant operation possible No Type of converter U converter Degree of protection (IP) IP66 Degree of protection (NEMA) 4X Height mm 32 Width mm 161			
Number of HW-interfaces Serial TTY Number of HW-interfaces USB Number of HW-interfaces parallel Number of HW-interfaces other Number of HW-interfaces other Number of HW-interfaces other No With optical interface With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height No 120 121 122 123 124 125 126 127 128 128 128 129 120 120 120 120 120 120 120			
Number of HW-interfaces USB Number of HW-interfaces parallel Number of HW-interfaces other With optical interface With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width Mo CONDESSIBLE U converter P66 MA MB MB MB MB MB MB MB MB MB			
Number of HW-interfaces parallel Number of HW-interfaces other O With optical interface With PC connection With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width O O O O O O O O O O O O O			
Number of HW-interfaces other With optical interface With PC connection With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width O No 10 10 10 10 10 10 10 10 10 1			
With optical interface With PC connection With PC connection Integrated breaking resistance Integrated breaking possible A-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width Mo Vonverter IP66 WA Width IP66 Mm Wm Wm Wm Wm Wm Wm Wm Wm Wm			
With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width Yes No Vo Lonverter U converter IP66 4X Height mm 232 Width			
Integrated breaking resistance 4-quadrant operation possible No Type of converter U converter Degree of protection (NEMA) Height Mm 232 Width No No No 1 V converter U converter AX Holight Mm 161			
4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width No U converter IP66 4X Width mm 232 Width			
Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Mm 232 Width U converter IP66 4X 4X Horight Mm 161			
Degree of protection (IP) Degree of protection (NEMA) Height Width IP66 4X Mm 232 Width In 161			
Degree of protection (NEMA) 4X Height mm 232 Width mm 161			
Height mm 232 Width mm 161			
Width mm 161			
Depth mm 162			
	иерtn	mm	102