Eaton 199448

Eaton DC1 Variable frequency drive, 400 V AC, 3-phase, 39 A, 18.5 kW, IP66/NEMA 4X, Radio interference suppression filter, Brake chopper, 7-digital display assembly, Local controls, Additional PCB protection, UV resistant, FS4

PRODUCT NAME	Eaton DC1 Variable frequency drive
CATALOG NUMBER	199448
PRODUCT LENGTH/DEPTH	275 mm
PRODUCT HEIGHT	360 mm
PRODUCT WIDTH	240 mm
PRODUCT WEIGHT	9.5 kg
CERTIFICATIONS	UL report applies to both US and Canada CE marking Certified by UL for use in Canada CE IEC/EN 61800-2 RCM UL Listed UL File No.: E172143 CUL CSA-C22.2 No. 14 IEC/EN 61800-5-1 RoHS, ISO 9001 UL IEC/EN 61800-3 IEC/EN61800-5 UL 508C UL Category Control No.: NMMS, NMMS7 UkrSEPRO EAC
	 Environmental

class: 3C3, 3S3Overload cycle for

CATALOG NOTES



60 s every 600 s
• For normal internally and externally ventilated four-pole three-phase asynchronous motors with 1500 rpm at 50 Hz and 1800 rpm at 60 Hz

FEATURES	Parameterization: drivesConnect mobile (App) Parameterization: drivesConnect Parameterization: Fieldbus Parameterization: Keypad
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 leaflet (IL) is observed.
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	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.
10.2.6 MECHANICAL	Does not apply, since the

IMPACT	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Internal DC link Additional PCB protection Breaking resistance 7-digital display assembly IGBT inverter PC connection UV resistance Control unit Brake chopper Radio interference suppression filter Local controls
CLIMATIC PROOFING	< 95 average relative humidity (RH), no condensation, no corrosion
CONNECTION TO SMARTWIRE-DT	No
OPERATING MODE	U/f control BLDC motors Synchronous reluctance motors Sensorless vector control

RATED IMPULSE WITHSTAND VOLTAGE (UIMP) FRAME SIZE ALTITUDE ALTITUDE ALTITUDE ALTITUDE APPLICATION IN DOMESTIC AND COMMERCIAL AREA PERMITTED MAINS SWITCH-ON FREQUENCY AMBIENT OPERATING TEMPERATURE - MAX AUS OUTPUT VOLTAGE - MAX OUTPUT VOLTAGE - MAX OUTPUT VOLTAGE - MAX ABBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION TRESOLUTION TRESOLUTION TRESOLUTION TRESOLUTION TRESHOLD TRESOLUTION TRESOLU		
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DOMESTIC AND COMMERCIAL AREA PERMITTED MAINS SWITCH-ON FREQUENCY every 30 seconds AMBIENT OPERATING TEMPERATURE - MAX 40 °C AMBIENT OPERATING TEMPERATURE - MIN 500 V MAINS VOLTAGE - MAX 500 V RELATIVE SYMMETRIC NET FREQUENCY TOLERANCE 10 % TOLERANCE 10 % AMBIENT STORAGE TEMPERATURE - MAX 60 °C AMBIENT STORAGE TEMPERATURE - MAX 15.6 kVA APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPARENT POWER AT 480 V APPODUCT CATEGORY Variable frequency drives PROTECTION 50.1 Hz (Frequency resolution, setpoint value)	ALTITUDE	Above 1000 m with 1 %
AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN MAINS VOLTAGE - MAX OUTPUT VOLTAGE - MAX RELATIVE SYMMETRIC NET FREQUENCY TOLERANCE RELATIVE SYMMETRIC NET VOLTAGE TOLERANCE AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY RESOLUTION PROTECTION PROTECTION O.1 Hz (Frequency resolution, setpoint value)	DOMESTIC AND COMMERCIAL AREA	Yes
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OUTPUT VOLTAGE - MAX RELATIVE SYMMETRIC NET FREQUENCY TOLERANCE RELATIVE SYMMETRIC NET VOLTAGE TOLERANCE AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY PROTECTION RESOLUTION 500 V 10 % 60 °C -40 °C 15.6 kVA 18.72 kVA Yes Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 10 % 10		-20 °C
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NET FREQUENCY TOLERANCE RELATIVE SYMMETRIC NET VOLTAGE TOLERANCE AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 10 % 10 % 60 °C 40 °C 15.6 kVA 18.72 kVA Yes Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 0.1 Hz (Frequency resolution, setpoint value)	OUTPUT VOLTAGE - MAX	500 V
NET VOLTAGE TOLERANCE AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 10 % 60 °C -40 °C 15.6 kVA 18.72 kVA Ves Protection in Industrial Area Permitted Proportion O.1 Hz (Frequency resolution, setpoint value)	NET FREQUENCY	10 %
TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 60 °C -40 °C -40 °C 15.6 kVA 18.72 kVA Ves Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) 0.1 Hz (Frequency resolution, setpoint value)	NET VOLTAGE	10 %
TEMPERATURE - MIN APPARENT POWER AT 400 V APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION -40 °C 15.6 kVA 18.72 kVA Yes Permitted Yes Protection 4 drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) 0.1 Hz (Frequency resolution, setpoint value)		60 °C
APPARENT POWER AT 480 V APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 15.6 kVA 18.72 kVA Yes Prospectives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) 0.1 Hz (Frequency resolution, setpoint value)		-40 °C
APPLICATION IN INDUSTRIAL AREA PERMITTED PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 0.1 Hz (Frequency resolution, setpoint value)		15.6 kVA
INDUSTRIAL AREA PERMITTED Yes PRODUCT CATEGORY Variable frequency drives Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 0.1 Hz (Frequency resolution, setpoint value)		18.72 kVA
PROTECTION Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 0.1 Hz (Frequency resolution, setpoint value)	INDUSTRIAL AREA	Yes
PROTECTION proof, Protection against direct contact (BGV A3, VBG4) RESOLUTION 0.1 Hz (Frequency resolution, setpoint value)	PRODUCT CATEGORY	Variable frequency drives
resolution, setpoint value)	PROTECTION	proof, Protection against direct contact (BGV A3,
SWITCH-ON THRESHOLD 780 VDC	RESOLUTION	
	SWITCH-ON THRESHOLD	780 VDC

VOLTAGE RATING - MAX	240 V
MOUNTING POSITION	Vertical
OVERVOLTAGE CATEGORY	III
COMMUNICATION INTERFACE	OP-Bus (RS485), built in SmartWire-DT, optional Modbus RTU, built in CANopen®, built in
CONVERTER TYPE	U converter
DEGREE OF PROTECTION	IP66 NEMA 4X
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	25 HP
BRAKING RESISTANCE	22 Ω
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0 W
INPUT CURRENT ILN AT 150% OVERLOAD	44.1 A
MAINS CURRENT DISTORTION	120 %
PROTOCOL	CAN EtherNet/IP Other bus systems MODBUS
OVERLOAD CURRENT IL AT 150% OVERLOAD	58.5 A
RATED FREQUENCY - MAX	62 Hz
RATED FREQUENCY - MIN	48 Hz
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE	18.5 kW
ASSIGNED MOTOR CURRENT IM AT 400 V, 50 HZ, 150% OVERLOAD	39 A
ASSIGNED MOTOR CURRENT IM AT 440 - 480 V, 60 HZ, 150% OVERLOAD	39 A
SYSTEM	AC supply systems with
CONFIGURATION TYPE	earthed center point

	ms), Actuator for external motor brake
ELECTROMAGNETIC COMPATIBILITY	1st and 2nd environments (according to EN 61800-3)
BRAKING TORQUE	Max. 100 % of rated operational current le, variable, DC - Main circuit
CABLE LENGTH	150 m, unscreened, maximum permissible cable length C3 ≤ 25 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length 100 m, screened, maximum permissible cable length 200 m, screened, with motor choke, maximum permissible cable length 300 m, unscreened, with motor choke, maximum permissible cable length 300 m, unscreened, with motor choke, maximum permissible, Motor feeder
FUNCTIONS	4-quadrant operation possible
OUTPUT VOLTAGE (U2)	400 V AC, 3-phase 480 V AC, 3-phase
DELAY TIME	< 10 ms, On-delay < 10 ms, Off-delay
NUMBER OF INPUTS (ANALOG)	2 (parameterizable, 0 - 10 V DC, 0/4 - 20 mA)
NUMBER OF INPUTS (DIGITAL)	4 (parameterizable, 10 - 30 V DC)
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
NUMBER OF OUTPUTS (DIGITAL)	1
STARTING CURRENT - MAX	175 %, IH, max. starting current (High Overload), For 2.5 seconds every 600

	seconds, Power section
NUMBER OF PHASES (INPUT)	3
NUMBER OF RELAY OUTPUTS	1 (parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1))
NUMBER OF PHASES (OUTPUT)	3
POWER CONSUMPTION	728 W
RATED CONTROL SUPPLY VOLTAGE	10 V DC (Us, max. 10 mA)
EFFICIENCY	97 % (η)
SUPPLY FREQUENCY	50/60 Hz
LEAKAGE CURRENT AT GROUND IPE - MAX	12.9 mA
MAINS VOLTAGE - MIN	380 V
NOMINAL OUTPUT CURRENT I2N	39 A
NUMBER OF HW- INTERFACES (INDUSTRIAL ETHERNET)	0
NUMBER OF HW- INTERFACES (OTHER)	0
NUMBER OF HW- INTERFACES (PARALLEL)	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 INTERFACES (PROFINET)	0
NUMBER OF OUTPUTS (ANALOG)	1
OUTPUT AT LINEAR LOAD AT RATED OUTPUT VOLTAGE - MAX	18.5 kW
OUTPUT AT QUADRATIC LOAD AT RATED OUTPUT VOLTAGE - MAX	18.5 kW
OUTPUT FREQUENCY - MAX	500 Hz

OUTPUT FREQUENCY - MIN	0 Hz
SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)	Type 1 coordination via the power bus' feeder unit, Main circuit
SUITABLE FOR	Branch circuits, (UL/CSA)
SWITCHING FREQUENCY	8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit
RATED OPERATIONAL CURRENT (IE)	39 A at 150% overload (at an operating frequency of 6 kHz and an ambient air temperature of +40 °C)
RATED OPERATIONAL VOLTAGE	480 V AC, 3-phase 400 V AC, 3-phase
SHORT-CIRCUIT PROTECTION RATING	60 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring
HEAT DISSIPATION AT CURRENT/SPEED	154 W at 25% current and 0% speed 165 W at 25% current and 50% speed 209 W at 50% current and 50% speed 214 W at 50% current and 0% speed 219 W at 50% current and 90% speed 309 W at 100% current and 0% speed 338 W at 100% current and 90% speed 375 W at 100% current and 90% speed

INSTALLATION VIDEOS	<u>Video PowerXL DA1</u>
MCAD MODEL	e3 s4 ip66 mit bedienelementen.dwg e3 s4 ip66 mit bedienelementen.stp
	eaton-powerxl-variable-frequency- drives-dc1-da1-brochure-br040001en- en-us.pdf
	eaton-frequency-inverter-dc1- dimensions-007.eps
	DX-COM-STICK3 Connection
	<u>The OP System Bus - Parameterizing - Control</u>

How does the internal motor protection work?

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:



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