Eaton 169395

Eaton DA1 Variable frequency drive, 400 V AC, 3-phase, 72 A, 37 kW, IP55/NEMA 12, Radio interference suppression filter, OLED display, DC link choke

PRODUCT NAME	Eaton DA1 Variable frequency drive
CATALOG NUMBER	169395
PRODUCT LENGTH/DEPTH	270 mm
PRODUCT HEIGHT	540 mm
PRODUCT WIDTH	235 mm
PRODUCT WEIGHT	22.5 kg
CERTIFICATIONS	Certified by UL for use in Canada IEC/EN61800-3 IEC/EN 61800-5 UL File No.: E172143 RoHS, ISO 9001 UL RCM CSA-C22.2 No. 14 CE CUL DNV Safety: EN 61800-5-1: 2003 UkrSEPRO UL 508C Specification for general requirements: IEC/EN 61800-2 UL Category Control No.: NMMS, NMMS7 EAC UL report applies to both
	US and Canada
CATALOG NOTES	The brake resistors are assigned based on the maximum rated power of the variable frequency



drive. Additional brake resistors and designs (e.g. different duty cycles) are available upon request.

PRODUCT CATEGORY	Variable frequency drives
FEATURES	Parameterization: drivesConnect Parameterization: drivesConnect mobile (App) 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.

INSTALLATION VIDEOS	<u>Video PowerXL DA1</u>
	eaton-powerxl-variable- frequency-drives-dc1-da1- brochure-br040001en-en- us.pdf
	eaton-powerxl-da1- installation-manual- mn04020005z-en-us.pdf
	eaton-powerxl-da1- application-manual- mn04020006z-en-us.pdf
	eaton-frequency-inverter- dimensions-024.eps
	eaton-frequency-inverter- 3d-drawing-015.eps

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.
FITTED WITH:	OLED display Control unit Breaking resistance Radio interference suppression filter Brake chopper Internal DC link IGBT inverter DC link choke Additional PCB protection PC connection
CLIMATIC PROOFING	< 95 average relative humidity (RH), no condensation, no corrosion
CONNECTION TO SMARTWIRE-DT	Yes In conjunction with DX- NET-SWD1 SmartWire DT module
OPERATING MODE	U/f control Sensorless vector control (SLV)

	Speed control with slip compensation Optional: Vector control with feedback (CLV)
FRAME SIZE	FS5
ALTITUDE	Max. 1000 m Above 1000 m with 1 % derating per 100 m Max. 4000 m
ENVIRONMENTAL CLASS	3C2, 3S2 (Air quality)
APPLICATION IN DOMESTIC AND COMMERCIAL AREA PERMITTED	Yes
MAINS SWITCH-ON FREQUENCY	Maximum of one time every 30 seconds
APPLICATION IN INDUSTRIAL AREA PERMITTED	Yes
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C
AMBIENT OPERATING TEMPERATURE AT 150% OVERLOAD - MAX	40 °C
AMBIENT OPERATING TEMPERATURE AT 150% OVERLOAD - MIN	-10 °C
AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
APPARENT POWER AT 400 V	48.5 kVA
APPARENT POWER AT 480 V	58.2 kVA
ASSIGNED MOTOR CURRENT IM AT 400 V, 50 HZ, 150% OVERLOAD	68 A
MOUNTING POSITION	Vertical
RELATIVE SYMMETRIC NET FREQUENCY TOLERANCE	10 %
RELATIVE SYMMETRIC NET VOLTAGE TOLERANCE	10 %
PROTECTION	Finger and back-of-hand proof, Protection against

	direct contact (BGV A3, VBG4)
RESOLUTION	0.1 Hz (Frequency resolution, setpoint value)
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
SWITCH-ON THRESHOLD FOR THE BRAKING TRANSISTOR	780 VDC
VOLTAGE RATING - MAX	480 VAC
COMMUNICATION INTERFACE	DeviceNet, optional Ethernet IP, optional PROFIBUS, optional PROFINET, optional SmartWire-DT, optional EtherCAT, optional CANopen®, built in Modbus-TCP, optional OP-Bus (RS485), built in Modbus RTU, built in
CONVERTER TYPE	U converter
DEGREE OF PROTECTION	NEMA 12 IP55
PROTOCOL	MODBUS Other bus systems PROFIBUS EtherNet/IP CAN PROFINET IO DeviceNet TCP/IP
ASSIGNED MOTOR CURRENT IM AT 440 - 480 V, 60 HZ, 150% OVERLOAD	65 A
SYSTEM CONFIGURATION TYPE	AC supply systems with earthed center point
ELECTROMAGNETIC COMPATIBILITY	1st and 2nd environments (according to EN 61800-3)
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	50 HP
BRAKING RESISTANCE	12 Ω
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	925 W
HEAT DISSIPATION	

HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0 W
INPUT CURRENT ILN AT 150% OVERLOAD	77.3 A
BRAKING TORQUE	Max. 100 % of rated operational current le, variable, DC - Main circuit Max. 100 % of rated operational current le with external braking resistor - Main circuit Max. 30 % MN, Standard - Main circuit
CABLE LENGTH	100 m, screened, maximum permissible, Motor feeder 300 m, unscreened, with motor choke, maximum permissible, Motor feeder C3 ≤ 25 m, Radio interference level, maximum motor cable length 200 m, screened, with motor choke, maximum permissible, Motor feeder C2 ≤ 5 m, Radio interference level, maximum motor cable length 150 m, unscreened, maximum permissible, Motor feeder
FUNCTIONS	4-quadrant operation possible
OUTPUT VOLTAGE (U2)	480 V AC, 3-phase 400 V AC, 3-phase
NUMBER OF INPUTS (ANALOG)	2
NUMBER OF INPUTS (DIGITAL)	5
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)	2
STARTING CURRENT - MAX	200 %, IH, max. starting current (High Overload), for 4 seconds every 40 seconds, Power section
NUMBER OF PHASES (INPUT)	3
NUMBER OF RELAY OUTPUTS	2 (parameterizable, 1 N/O and 1 changeover contact, 6 A (250 V, AC-1) / 5 A (30 V, DC-1))
NUMBER OF PHASES (OUTPUT)	3
POWER CONSUMPTION	925 W
RATED CONTROL SUPPLY VOLTAGE	10 V DC (Us, max. 10 mA)
EFFICIENCY	97.5 % (η)
RATED CONTROL VOLTAGE (UC)	24 V DC (external, max. 100 mA)
SUPPLY FREQUENCY	50/60 Hz
LEAKAGE CURRENT AT GROUND IPE - MAX	0.49 mA
MAINS VOLTAGE - MAX	480 V
MAINS VOLTAGE - MIN	380 V
NOMINAL OUTPUT CURRENT I2N	72 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) NUMBER OF OUTPUTS (ANALOG) OUTPUT AT LINEAR LOAD AT RATED OUTPUT VOLTAGE - MAX OUTPUT AT QUADRATIC LOAD AT RATED OUTPUT VOLTAGE - MAX OUTPUT FREQUENCY - MIN OUTPUT FREQUENCY - MIN OUTPUT FREQUENCY - MIN OUTPUT OUTREE - MAX OUTPUT FREQUENCY - MIN OUTPUT FREQUENCY - MIN OUTPUT OUTREE - MAX OUTPUT VOLTAGE - MAX OUTPUT VOLTAGE - MAX OUTPUT VOLTAGE - MAX SOU V OVERLOAD CURRENT IL AT 150% OVERLOAD SWITCHING FREQUENCY - MIN AND AND AND AND AND AND AND AND AND AN		
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LOAD AT RATED OUTPUT VOLTAGE - MAX OUTPUT FREQUENCY - MIN OUTPUT VOLTAGE - MAX OUTPUT VOLTAGE - MAX OVERLOAD CURRENT IL AT 150% OVERLOAD SUITABLE FOR Branch circuits, (UL/CSA) 8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit RATED OPERATIONAL VOLTAGE 400 V AC, 3-phase 480 V AC, 3-phase 480 V AC, 3-phase 480 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring RATED FREQUENCY - MAX RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL LEAT DISSIPATION AT CURRENT/SPEED 37 kW 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring 72 A 72 A 72 A 37 kW 48 HZ 72 A T2 A T3 A T4 A T5 A T5 O (Safe Torque Off, SIL2, PLC Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed 280 W at 25% current and 50% speed	LOAD AT RATED OUTPUT	37 kW
MAX OUTPUT FREQUENCY - MIN OUTPUT VOLTAGE - MAX OVERLOAD CURRENT IL AT 150% OVERLOAD SUITABLE FOR Branch circuits, (UL/CSA) 8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit RATED OPERATIONAL 400 V AC, 3-phase 480 V AC, 3-phase VOLTAGE 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring RATED FREQUENCY - MIN 48 Hz RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 Hz, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED A HEAT DISSIPATION AT CURRENT/SPEED	LOAD AT RATED OUTPUT	37 kW
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SUITABLE FOR Branch circuits, (UL/CSA) 8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit RATED OPERATIONAL VOLTAGE 400 V AC, 3-phase 480 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring RATED FREQUENCY - MIN RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring 62 Hz 72 A 72 A 72 A STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	OUTPUT VOLTAGE - MAX	500 V
SWITCHING FREQUENCY 8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit RATED OPERATIONAL VOLTAGE 400 V AC, 3-phase 480 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring RATED FREQUENCY - MIN 48 Hz RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED 8 kHz, 4 - 24 kHz adjustable (audible), fPWM, Power section, Main circuit 400 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring 72 Hz 72 A 72 A 73 kW 74 A 75 A 76 (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed		105 A
SWITCHING FREQUENCY adjustable (audible), fPWM, Power section, Main circuit RATED OPERATIONAL VOLTAGE SHORT-CIRCUIT PROTECTION RATING RATED FREQUENCY - MAX RATED FREQUENCY - MIN 48 Hz RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED Adjustable (audible), fPWM, Power section, Main circuit 400 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring 62 Hz 72 A 72 A 72 A STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	SUITABLE FOR	Branch circuits, (UL/CSA)
VOLTAGE 480 V AC, 3-phase 100 A, UL (Class CC or J), Safety device (fuse or miniature circuit-breaker), Power Wiring RATED FREQUENCY - MIN RATED FREQUENCY - MIN RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED 48 Hz 72 A 72 A 37 kW 5TO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	SWITCHING FREQUENCY	adjustable (audible), fPWM, Power section,
SHORT-CIRCUIT PROTECTION RATING RATED FREQUENCY - MAX RATED FREQUENCY - MIN RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED Safety device (fuse or miniature circuit-breaker), Power Wiring 62 Hz 72 A 72 A 72 A STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed		•
RATED FREQUENCY - MIN 48 Hz RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL HEAT DISSIPATION AT CURRENT/SPEED 62 HZ 72 A 72 A 72 A 73 kW 74 A 75 A 76 A 77 A 78 A 79 A 79 A 70 A 70 A 71 A 72 A 72 A 73 A 74 A 75 A 76 A 77 A 78 A 79 A 70 A 70 A 71 A 72 A 72 A 73 A 74 A 75 A 76 A 77 A 78		Safety device (fuse or miniature circuit-breaker),
RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	-	62 Hz
CURRENT (IE) AT 150% OVERLOAD RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	RATED FREQUENCY - MIN	48 Hz
CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	CURRENT (IE) AT 150%	72 A
POWER AT 380/400 V, 50 HZ, 3-PHASE SAFETY FUNCTION/LEVEL STO (Safe Torque Off, SIL2, PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	CURRENT FOR SPECIFIED	72 A
PLc Cat 2) 260 W at 100% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	POWER AT 380/400 V, 50	37 kW
HEAT DISSIPATION AT CURRENT/SPEED and 0% speed 280 W at 25% current and 0% speed 280 W at 25% current and 50% speed	SAFETY FUNCTION/LEVEL	•
		and 0% speed 280 W at 25% current and 0% speed

0% speed 410 W at 50% current and 50% speed 460 W at 50% current and 90% speed 830 W at 100% current and 50% speed 990 W at 100% current and 90% speed

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:



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