Eaton 125748

Eaton SVX Variable frequency drive, 400 V AC, 3-phase, 4.3 A, IP21, Radio interference suppression filter, Brake chopper, OLED display, FR4

PRODUCT NAME	Eaton SVX Variable frequency drive
CATALOG NUMBER	125748
PRODUCT LENGTH/DEPTH	327 mm
PRODUCT HEIGHT	190 mm
PRODUCT WIDTH	128 mm
PRODUCT WEIGHT	5 kg
CERTIFICATIONS	Specification for general requirements: IEC/EN 61800-2 DNV IEC/EN61800-5 UL RoHS, ISO 9001 Certified by UL for use in Canada UL Category Control No.: NMMS, NMMS2, NMMS7. NMMS8 UL File No.: E134360 CUL Safety: EN 61800-5-1: 2003 CSA-C22.2 No. 14 RCM IEC/EN 61800-3 CSA Class No.: 3211-06 IEC/EN61800-3 UL 508C UL report applies to both US and Canada CE

Powering Business Worldwide

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PRODUCT CATEGORY	Variable frequency drives
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 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.

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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.
10.8 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.
FITTED WITH:	Radio interference suppression filter Brake chopper Internal DC link IGBT inverter DC link choke OLED display
CLIMATIC PROOFING	< 95 % relative humidity, no condensation, no corrosion, no dripping water
CONNECTION TO SMARTWIRE-DT	No
OPERATING MODE	U/f control Sensorless vector control (SLV)
FRAME SIZE	FR4
ALTITUDE	Max. 3000 m Above 1000 m with 1 % performance reduction per 100 m Max. 1000 m
APPLICATION IN DOMESTIC AND COMMERCIAL AREA PERMITTED	No
APPLICATION IN INDUSTRIAL AREA PERMITTED	No
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C
AMBIENT OPERATING	50 °C

TEMPERATURE AT 150% OVERLOAD - MAX	
AMBIENT OPERATING TEMPERATURE AT 150% OVERLOAD - MIN	-10 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR CURRENT IM AT 400 V, 50 HZ, 110% OVERLOAD	5 A
ASSIGNED MOTOR CURRENT IM AT 400 V, 50 HZ, 150% OVERLOAD	3.6 A
MOUNTING POSITION	Vertical
PROTECTION	Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4)
RESOLUTION	0.01 Hz (Frequency resolution, setpoint value)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
VOLTAGE RATING - MAX	480 VAC
COMMUNICATION INTERFACE	CANopen®, optional DeviceNet, optional Modbus-TCP, optional BACnet/IP, optional LonWorks, optional PROFIBUS-DP
CONVERTER TYPE	Other
DEGREE OF PROTECTION	IP21 NEMA Other
ASSIGNED MOTOR CURRENT IM AT 440 - 480 V, 60 HZ, 150% OVERLOAD	3.4 A
ASSIGNED MOTOR CURRENT IM AT 440/480 V, 60 HZ, 110% OVERLOAD	4.8 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	2 HP
ASSIGNED MOTOR	3 HP

POWER AT 460/480 V, 60 HZ, 110% OVERLOAD	
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	38 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
OUTPUT VOLTAGE (U2)	500 V AC, 3-phase 480 V AC, 3-phase 400 V AC, 3-phase
NUMBER OF INPUTS (ANALOG)	2 (parameterizable, 0 - 10 V DC, 0/4 - 20 mA)
NUMBER OF INPUTS (DIGITAL)	6 (parameterizable, max. 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.
NUMBER OF OUTPUTS (DIGITAL)	1 (parameterizable, 48 V DC/50 mA)
NUMBER OF RELAY OUTPUTS	2 (parameterizable, N/O, 8 A (24 V DC) / 8 A (250 V AC) / 0,4 A (125 V DC))
RATED CONTROL SUPPLY VOLTAGE	10 V DC (Us, max. 10 mA)
RATED CONTROL VOLTAGE (UC)	24 V DC (external, max. 250 mA)
SUPPLY FREQUENCY	50/60 Hz
MAINS VOLTAGE - MAX	500 V
MAINS VOLTAGE - MIN	380 V
NUMBER OF OUTPUTS (ANALOG)	1
OUTPUT FREQUENCY - MAX	320 Hz
OUTPUT FREQUENCY - MIN	0 Hz
SUITABLE FOR	Branch circuits, (UL/CSA)
SWITCHING FREQUENCY	10 kHz, 1 - 16 kHz adjustable, fPWM, Power section, Main circuit
RATED OPERATIONAL VOLTAGE	400 V AC, 3-phase 500 V AC, 3-phase 480 V AC, 3-phase
RATED FREQUENCY -	66 Hz

MAX	
RATED FREQUENCY - MIN	45 Hz
RATED OPERATIONAL CURRENT (IE) AT 110% OVERLOAD	5.6 A
RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD	4.3 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4.3 A
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 110% OVERLOAD	2.2 kW

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