Eaton 125282

Eaton SPX Variable frequency drive, 600 V AC, 3-phase, 15 kW, IP54, Radio interference suppression filter, OLED display, FR6

PRODUCT NAME	Eaton SPX variable frequency drive
CATALOG NUMBER	125282
PRODUCT LENGTH/DEPTH	237 mm
PRODUCT HEIGHT	558 mm
PRODUCT WIDTH	195 mm
PRODUCT WEIGHT	18.5 kg
CERTIFICATIONS	Certified by UL for use in Canada DNV CSA Class No.: 3211-06 Safety: EN 61800-5-1: 2003 UL report applies to both US and Canada UL CE CSA-C22.2 No. 14 UL File No.: E134360 IEC/EN 61800-3 RCM IEC/EN61800-3 IEC/EN61800-5 UL Category Control No.: NMMS, NMMS2, NMMS7. NMMS8 UL 508C Specification for general requirements: IEC/EN 61800-2 CUL RoHS, ISO 9001

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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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DECLARATIONS OF CONFORMITY	eaton-variable-frequency-drive-declaration-of-conformity-uk251117en.pdf
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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:	IGBT inverter Radio interference suppression filter DC link choke OLED display Internal DC link
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) Optional: Vector control with feedback (CLV)
FRAME SIZE	FR6
ALTITUDE	Above 1000 m with 1 % performance reduction per 100 m Max. 1000 m Max. 3000 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 TEMPERATURE AT 150% OVERLOAD - MAX	50 °C
AMBIENT OPERATING TEMPERATURE AT 150% OVERLOAD - MIN	-10 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
MOUNTING POSITION	Vertical
PROTECTION	Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG4)
HEAT DISSIPATION DETAILS	Operation (with 150 % overload)
RATED OPERATIONAL POWER AT 690 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT 690 V, 50 HZ, 110% OVERLOAD	18.5 kW
RESOLUTION	0.01 Hz (Frequency resolution, setpoint value)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
VOLTAGE RATING - MAX	690 VAC
COMMUNICATION INTERFACE	Modbus-TCP, optional PROFIBUS-DP CANopen®, optional DeviceNet, optional LonWorks, optional BACnet/IP, optional BACnet MS/TP, optional EtherCAT, optional Ethernet IP, optional Modbus-RTU, optional PROFINET, optional
CONVERTER TYPE	Other
DEGREE OF PROTECTION	IP54 NEMA Other
ASSIGNED MOTOR CURRENT IM AT 690 V, 50 HZ, 110% OVERLOAD	20.9 A
ASSIGNED MOTOR CURRENT IM AT 690 V, 50 HZ, 150% OVERLOAD	17 A
ASSIGNED MOTOR CURRENT IM AT 690 V, 60 HZ, 110% OVERLOAD	19 A

ASSIGNED MOTOR CURRENT IM AT 690 V, 60 HZ, 150% OVERLOAD	15 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 690 V, 60 HZ	15 HP
ASSIGNED MOTOR POWER AT 690 V, 60 HZ, 110% OVERLOAD	20 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	375 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
OUTPUT VOLTAGE (U2)	600 V AC, 3-phase 690 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	690 V
MAINS VOLTAGE - MIN	525 V
NUMBER OF OUTPUTS (ANALOG)	1
OUTPUT FREQUENCY - MAX	320 Hz
OUTPUT FREQUENCY -	0 Hz

MIN	
SUITABLE FOR	Branch circuits, (UL/CSA)
SWITCHING FREQUENCY	1.5 kHz, 1 - 6 kHz adjustable, fPWM, Power section, Main circuit
RATED OPERATIONAL VOLTAGE	600 V AC, 3-phase 690 V AC, 3-phase
RATED FREQUENCY - MAX	66 Hz
RATED FREQUENCY - MIN	45 Hz
RATED OPERATIONAL CURRENT (IE) AT 110% OVERLOAD	22 A
RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD	18 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	18 A

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