



□□□□

Eaton 180532

Eaton SVX SVX002A1-5A4B2

□□□□

PRODUCT NAME	Eaton SVX Variable frequency drive
CATALOG NUMBER	180532
PRODUCT LENGTH/DEPTH	558 mm
PRODUCT HEIGHT	237 mm
PRODUCT WIDTH	195 mm
PRODUCT WEIGHT	18.5 kg

CERTIFICATIONS	CUL UL 508C CE marking UL report applies to both US and Canada IEC/EN 61800-3 CSA-C22.2 No. 14 CSA Class No.: 3211-06 UL RoHS, ISO 9001 UL File No.: E134360 Certified by UL for use in Canada IEC/EN 61800-5-1 IEC/EN 61800-2 DNV UL Listed CE RCM IEC/EN61800-5 UL Category Control No.: NMMS, NMMS2, NMMS7, NMMS8
-----------------------	--



Powering Business Worldwide

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.

□□□□□	IL04020008Z
□□	eaton-frequency-inverter-dimensions-032.eps

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:	OLED display Brake chopper Additional PCB protection IGBT inverter Radio interference suppression filter Internal DC link
CLIMATIC PROOFING	< 95 % relative humidity, no condensation, no corrosion, no dripping water
CONNECTION TO SMARTWIRE-DT	No
OPERATING MODE	Sensorless vector control (SLV) U/f control
FRAME SIZE	FR6
ALTITUDE	Max. 3000 m Above 1000 m with 1 % performance reduction per 100 m Max. 1000 m
ENVIRONMENTAL CLASS	3C2, 3S2 (Air quality)
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 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)
RATED OPERATIONAL POWER AT 690 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT 690 V, 50 HZ, 110% OVERLOAD	3 kW
RESOLUTION	0.01 Hz (Frequency resolution, setpoint value)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
VOLTAGE RATING - MAX	690 V
COMMUNICATION INTERFACE	PROFIBUS-DP Modbus-TCP, optional EtherCAT, optional CANopen®, optional PROFINET, optional Modbus-RTU, optional LonWorks, optional Ethernet IP, optional DeviceNet, optional BACnet MS/TP, optional
CONVERTER TYPE	Other
DEGREE OF PROTECTION	IP21 NEMA Other
ASSIGNED MOTOR CURRENT IM AT 690 V, 50 HZ, 110% OVERLOAD	3.8 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 690 V, 60 HZ	2 HP
ASSIGNED MOTOR POWER AT 690 V, 60 HZ, 110% OVERLOAD	3 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	55 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER	0 W

POLE, CURRENT-DEPENDENT PVID	
OUTPUT VOLTAGE (U2)	690 V AC, 3-phase 600 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 - MIN	0 Hz
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	4.5 A
RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD	3.2 A
RATED OPERATIONAL CURRENT FOR SPECIFIED	3.2 A

