Variable frequency drive, 400 V AC, 3-phase, 55 kW, IP21, Radio interference suppression filter, Brake chopper, OLED display, FR8



Part no. SPX075A1-4A1B1 138608

Product name	Enton CDV variable francisco drive
Product name	Eaton SPX variable frequency drive
Part no.	SPX075A1-4A1B1
EAN	4015081353880
Product Length/Depth	758 millimetre
Product height	344 millimetre
Product width	291 millimetre
Product weight	58 kilogram
Certifications	Certified by UL for use in Canada IEC/EN61800-5 Specification for general requirements: IEC/EN 61800-2 CUL UL 508C Safety: EN 61800-5-1: 2003 RoHS, ISO 9001 DNV RCM CSA-C22.2 No. 14 UL report applies to both US and Canada IEC/EN 61800-3 UL File No.: E134360 UL CE CSA Class No.: 3211-06 UL Category Control No.: NMMS, NMMS2, NMMS7. NMMS8 IEC/EN61800-3
Product Tradename	SPX
Product Type	Variable frequency drive
Product Sub Type	None
Catalog Notes	Assigned motor rating: For AC motors with internal and external ventilation with Hz / 60 Hz Assigned motor rating: Overload cycle for 60 s every 600 s Mains choke recommended only if the power quality is poor. Current harmonics (THD) are attenuated by internal DC link chokes.
General information	
Degree of protection	IP21 NEMA Other
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Fitted with:	DC link choke Internal DC link Brake chopper IGBT inverter OLED display Radio interference suppression filter
Frame size	FR8
Mounting position	Vertical
Product Category	Variable frequency drives
Protection	Finger and back-of-hand proof, Protection against direct contact (BGV A3, VBG
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.
Suitable for	Branch circuits, (UL/CSA)
Climatic environmental conditions	
Altitude	Above 1000 m with 1 % performance reduction per 100 m Max. 1000 m Max. 3000 m
Ambient operating temperature - min	-10 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature at 150% overload - min	-10 °C
Ambient operating temperature at 150% overload - max	50 °C

Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °C
Climatic proofing	< 95 % relative humidity, no condensation, no corrosion, no dripping water
Main circuit	
Mains voltage - min	380 V
Mains voltage - max	500 V
Operating mode	Optional: Vector control with feedback (CLV) U/f control Sensorless vector control (SLV)
Output frequency - min	0 Hz
Output frequency - max	320 Hz
Output voltage (U2)	400 V AC, 3-phase 480 V AC, 3-phase 500 V AC, 3-phase
Rated control supply voltage	10 V DC (Us, max. 10 mA)
Rated frequency - min	45 Hz
Rated frequency - max	66 Hz
Rated operational current (le) at 110% overload	140 A
Rated operational current (le) at 150% overload	105 A
Rated operational power at 380/400 V, 50 Hz	55 kW
Rated operational power at 380/400 V, 50 Hz, 110% overload	75 kW
Rated operational voltage	400 V AC, 3-phase 500 V AC, 3-phase 480 V AC, 3-phase
Resolution	0.01 Hz (Frequency resolution, setpoint value)
Supply frequency	50/60 Hz
Switching frequency	3.6 kHz, 1 - 10 kHz adjustable, fPWM, Power section, Main circuit
System configuration type	AC supply systems with earthed center point
Voltage rating - max	480 V AC
Motor rating	
Assigned motor current IM at 400 V, 50 Hz, 110% overload	134 A
Assigned motor current IM at 400 V, 50 Hz, 150% overload	99 A
Assigned motor current IM at 440 - 480 V, 60 Hz, 150% overload	96 A
Assigned motor current IM at 440/480 V, 60 Hz, 110% overload	124 A
Assigned motor power at 460/480 V, 60 Hz	75 HP
Assigned motor power at 460/480 V, 60 Hz, 110% overload	100 HP
Control circuit	
Number of inputs (analog)	2 (parameterizable, 0 - 10 V DC, 0/4 - 20 mA)
Number of inputs (digital)	6 (parameterizable, max. 30 V DC)
Number of outputs (analog)	1
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 voltage (Uc)	24 V DC (external, max. 250 mA)
Communication	
Communication interface	BACnet/IP, optional CANopen®, optional LonWorks, optional Modbus-TCP, optional PROFIBUS-DP DeviceNet, optional BACnet MS/TP, optional EtherCAT, optional Ethernet IP, optional Modbus-RTU, optional PROFINET, optional
Connection to SmartWire-DT	No
Design verification	
Equipment heat dissipation, current-dependent Pvid	1375 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	105 A

0 W
Operation (with 150 % overload)
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
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Is the panel builder's responsibility.
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.