



General characteristics

Rated power supply voltage		380...480VAC 50/60Hz
Rated output voltage	VAC	Three-phase 0... 480VAC 0-400Hz
Rated output current	A	12
Rated output power	kW	5.5
Rated output power	HP	7.5
EMC filter		Built-in EMC suppressor cat. C3
Communication port		RS485, Modbus- RTU

Technical features

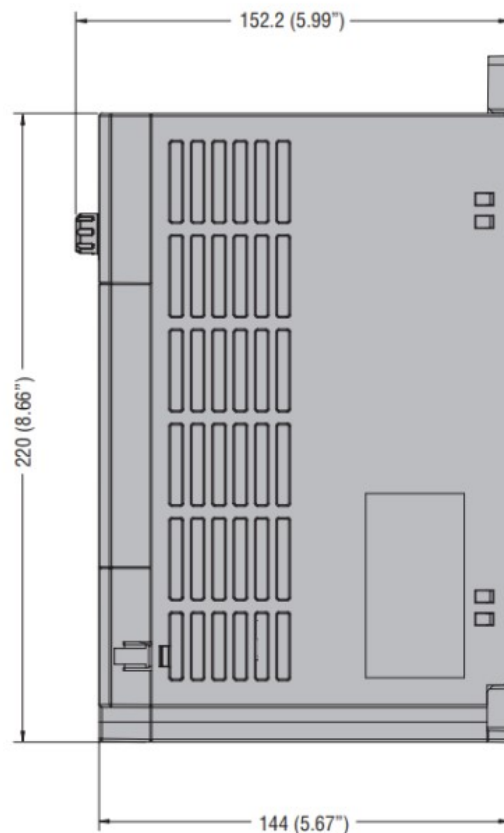
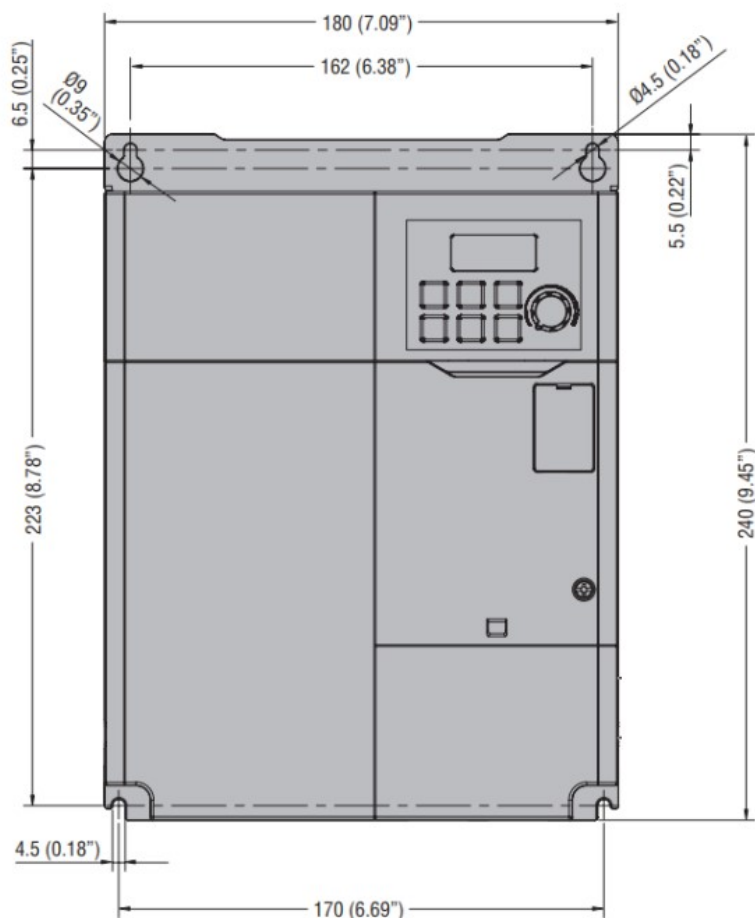
Input type		Three-phase
Rated mains voltage	VAC	380...480
Operating mains voltage range	VAC	323...528
Rated mains frequency	Hz	50/60
Operating mains frequency range	Hz	47.5...63
Output type		Three-phase
Output voltage range	VAC	0...480
Output frequency range	Hz	0...400
Current overload	%/s	150% for 60s (heavy load); 120% for 60s (standard load)
Brake chopper		Yes
Switching frequency		2...15kHz

Functions

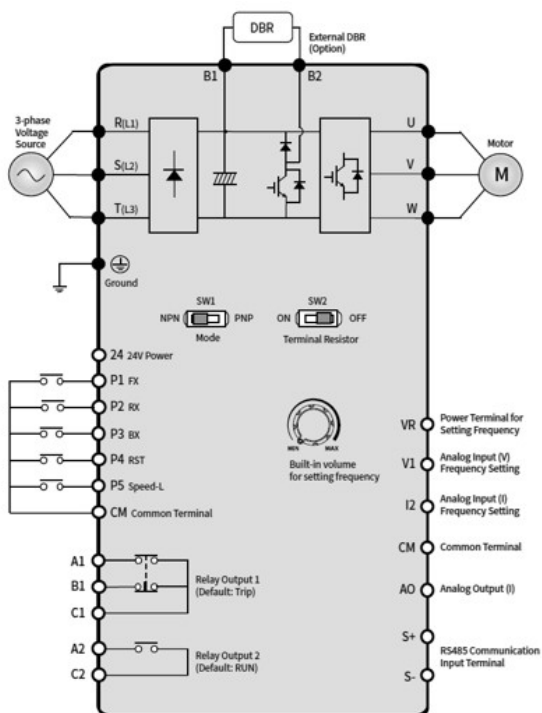
Motor control modes		V/f linear, V/f quadratic, V/f custom, sensorless vector control
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Speed reference signals	External potentiometer 0...5kΩ Voltage signals: 0...10VDC or -10...+10VDC Current signals: 0/4...20mA Buttons on front keyboard Front potentiometer Preset speeds Modbus
3-wire control	Yes
S-shape curves	Yes
Slip compensation	Yes
Flying restart	Yes
Access to DC bus	No
DC braking	Yes
DC injection at start	Yes
PID control	Yes
Sequencer (programmable frequency/time cycles)	No
Preset speeds	Yes
Autotuning	Yes
Safe torque Off (STO) safety function	No
PTC probe input	No
Protections	Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overtemperature Speed reverse
Input and Output	
Number of digital input	Nr. 5
Digital input type	Selectable PNP or NPN logic
Number of digital output	Nr. 2
Digital output arrangement	1 relay output with changeover contact (C/O-SPDT) + 1 NO relay output
Output contacts ratings	1A 250VAC, 1A 30VDC
Number of analog input	Nr. 2

Analog input type			1 voltage input type 0...10VDC or -10...+10VDC, 1 current input type 0/4...20mA	
Number of analog output			Nr.	1
Analog output type			0...10VDC	
Ambient conditions				
Temperature				
Operating temperature		min	°C	-10
		max	°C	+50
		Current derating		Over 45°C
Storage temperature		min	°C	-20
		max	°C	+65
Relative humidity			%	<95% (with no condensing)
Max altitude			m	4000m (over 1000m derate the rated current by 1%/1000m)
Maximum Pollution degree			2	
Housing				
Installation position			Vertical	
IP degree of protection			IP20	
Dimensions (W x H x D)			mm	180 x 240 x 152.2
Weight			Kg	3.24
Dimensions				



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 N° 274

EN/BS 61800-3

EN/BS 61800-5-1

UL 61800-5-1

Certificates

cULus

ETIM classification

ETIM 8.0

EC001857 -
Frequency
converter =< 1 kV