VLG30185A480

VARIABLE SPEED DRIVE, THREE-PHASE SUPPLY 380-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C3, 18.5KW



General characteristics		
Rated power supply voltage		380…480VAC 50/60Hz
Rated output voltage	VAC	Three-phase 0…480VAC 0-400Hz
Rated output current	A	39
Rated output power	kW	18.5
Rated output power	HP	25
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

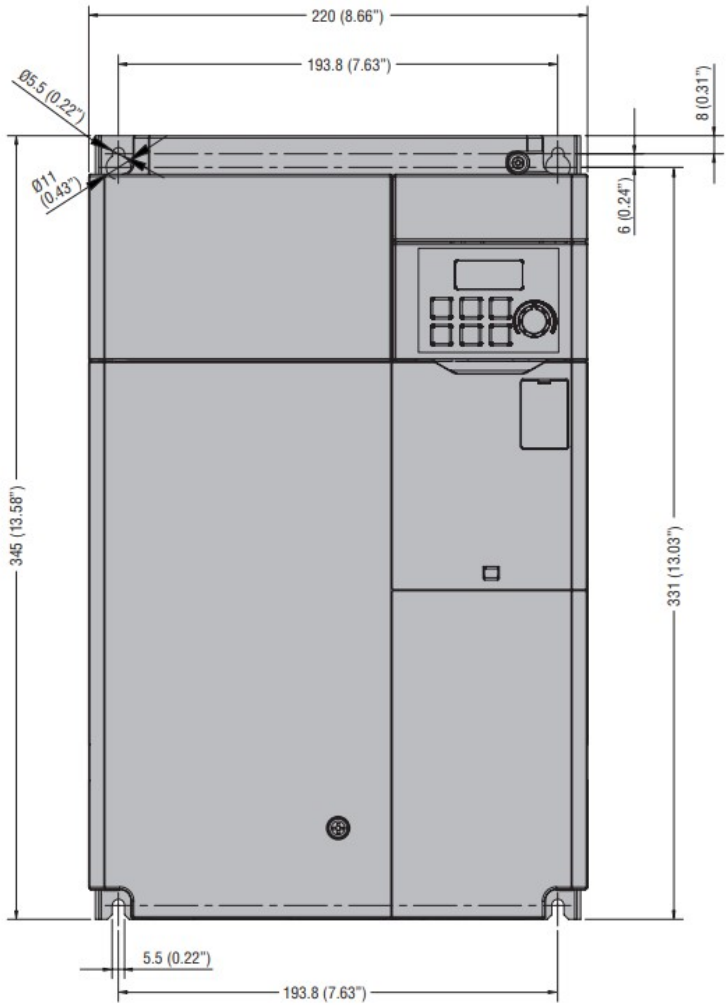
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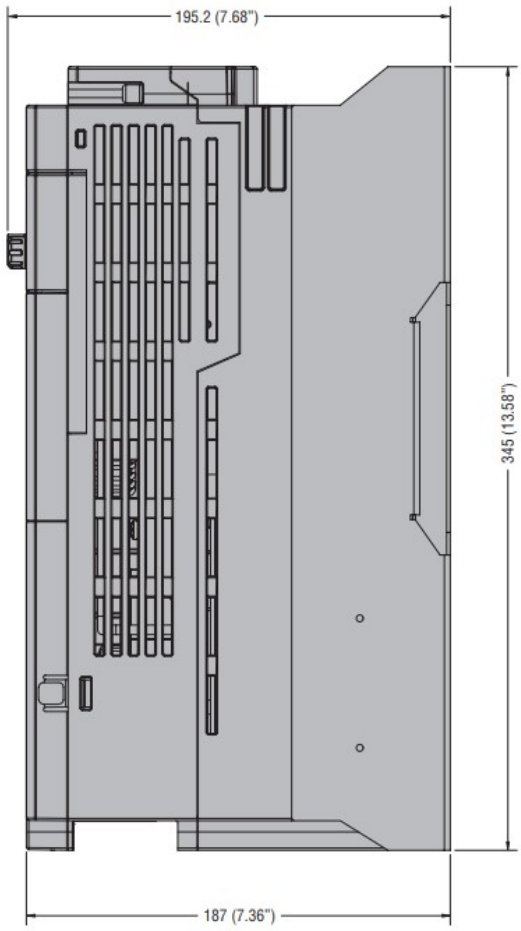
Analog input type				1 voltage input type 0…10VDC or -10…+10VDC, 1 current input type 0/4…20mA
Number of analog output			Nr.	1
Analog output type				0…10VDC
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-10
		max	°C	+50
		Current derating		Over 45°C
	Storage temperature			
		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	220 x 345 x 195.2
Weight			Kg	7.96
Dimensions				

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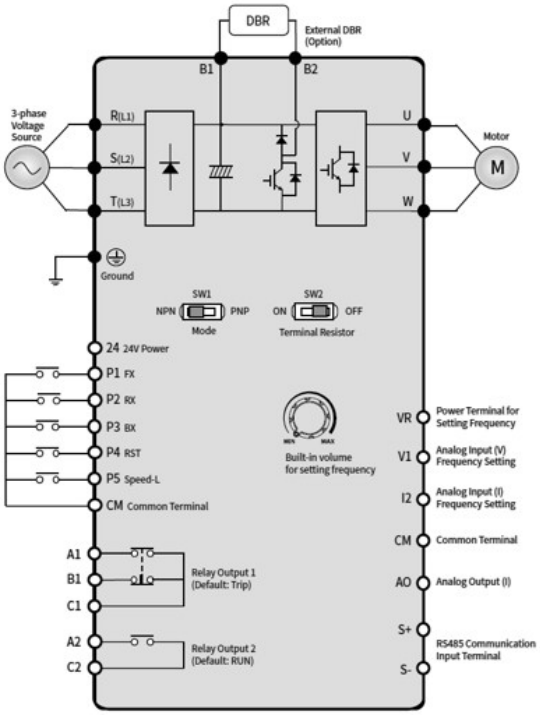
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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 N° 274

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	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

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