



VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 30KW



Product designation drives Product type designation VLB3 General characteristics Three phase Rated power supply voltage 400480VAC Rated output voltage VAC Three-phase 0 Rated output current 61 (heavy load load) Rated output power kW 37 (Standard load) Rated output power kW 37 (Standard load) Rated output power HP 50 (Standard load) EMC filter Suppressor cat C2 Communication port Built-in EMC suppressor cat C2 Communication port Modbus RTU protocol Technical features Modbus RTU protocol Input type Three phase Rated mains voltage VAC 400480 Operating mains voltage range VAC 340528 Rated mains frequency Hz 50/60 Operating mains frequency range Hz 50/60	Product type designation General characteristics Rated power supply voltage Rated output voltage Rated output current Rated output power Rated output power EMC filter Communication port Technical features Input type Rated mains voltage Operating mains voltage range Rated mains frequency Operating mains frequency range Rated mains current with mains choke	A kW	Three phase 400480VAC 50/60Hz Three-phase 0 480VAC 0-599Hz 61 (heavy load) / 73.2 (standard load) 30 (Heavy load) / 37 (Standard load) 40 (Heavy load) / 50 (Standard load) Built-in EMC suppressor cat. C2 Built-in RS485,
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Rated mains current with mains choke Standard For three-phase	Rated mains current with mains choke		
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Current overload %/s 150% for 60s; 200% for 3s 41 (heavy load 49 (standard load)			
Apparent output power 200% for 3s 41 (heavy load 49 (standard load)	Output frequency range	Hz	
Apparent output power 49 (standard load)	Current overload	%/s	
Apparent output power 49 (standard load)			
load)			
<u> </u>	Apparent output power		,
4kHz. 68()/V			
Power loss (heavy load) / 810 (standard	Power loss		
load)			
	Brake chopper		
Brake chooper	Switching frequency		
- ''			Yes





VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 30KW

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Max motor cable length			
Shielded	With and EMO and anomal		400
	Without EMC category	m	100
	Category C1 Category C2	m m	3 20
	Category C3	m	35
Unshielded	Category C3	1111	33
Officialed	Without EMC category	m	200
Functions	Thin out I me category		
			V/f linear,
			quadratic torque,
			sensorless
			vector control,
			ECO mode, servo control with
			encoder
			feedback,
			multipoint V/f
Motor control modes			curve, V/f closed
			loop control with
			encoder
			feedback, torque setpoint,
			sensorless
			control for
			synchronous
			motors up to
			22kW
			External
			potentiometer 010kΩ Voltage
			signals: 0
			10VDC or -10
			+10VDC Current
			signals: 0/4
Speed reference signals			20mA Buttons on
			front keyboard Door-mount
			installation kit 15
			preset speeds
			via digital inputs
			Motor
			potentiometer
3-wire control			Fieldbus Yes
S-shape curves			Yes
Slip compensation			Yes
Flying restart			Yes
Access to DC bus			Yes
DC braking			Yes
DC injection at start			Yes
·			Yes, with sleep
PID control			and rinse function
Sequencer (programmable frequency/time cycles)			Yes
Preset speeds			Yes
Motorpotentiometer			Yes





VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 30KW

Different parameter configuration sets			Yes
Parameters changeover function			Yes
Favorite parameters menu			Yes
Autotuning			No
Safe torque Off (STO) safety function			Optional
PTC probe input			Yes
Protections			Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse
Special funct.			Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output			
Number of digital input		n°	5
Digital input type			Selectable PNP or NPN logic
Number of digital output		n°	2
Digital output arrangement			1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts ratings			Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input		n°	2
Analog input type			Configurable 0/210VDC, -10+10VDC, 05VDC, 0/4 20mA
Number of analog output		n°	1
Analog output type			configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions			
Temperature Operating temperature	_		
	min max	°C °C	-10 +55

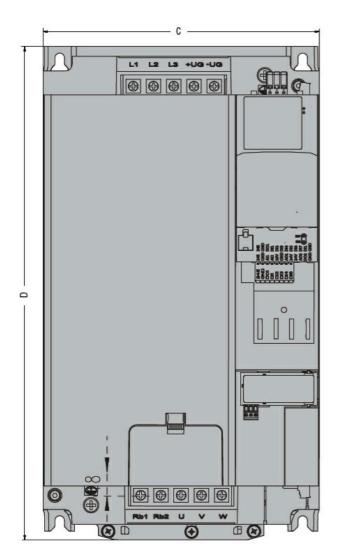


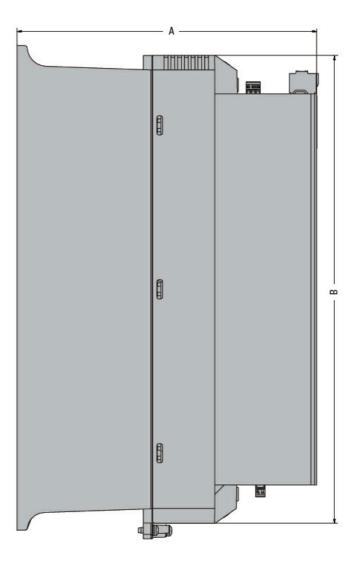


VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 30KW

	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			_
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution degree			2
Overvoltage category			III up to 2000m altitude (II above 2000m)
Housing			
Installation position			Vertical
IP degree of protection			IP20
Dimensions (W x H x D)		mm	250 x 520 x 230
Weight		Kg	17.5
Dimensions			

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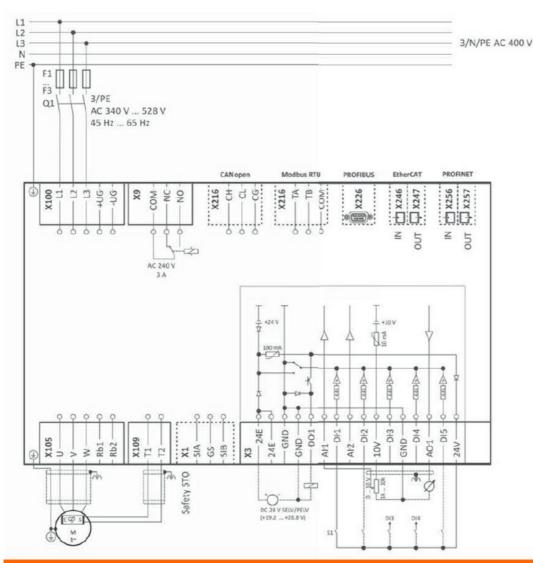




TYPE	A	В	C	D
VLB3 0150 A480	222 (8.74")	347 (13.66")	204.5 (8.05")	366 (14.41")
VLB3 0185 A480	222 (8.74")	347 (13.66")	204.5 (8.05")	366 (14.41")
VLB3 0220 A480	222 (8.74")	347 (13.66")	204.5 (8.05")	366 (14.41")
VLB3 0300 A480	230 (9.05")	450 (17.72")	250 (9.84")	520 (20.47")

Wiring diagrams

VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 30KW



Certifications and compliance

Compliance

CSA 22.2 n°274

EN 61800-5-1

UL61800-5-1

Certificates

CSA

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001857 -Frequency converter =< 1 kV