



Product designation			Variable speed
-			drives
Product type designation General characteristics			VLB3
General characteristics			400480VAC
Rated power supply voltage			50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		А	180
Rated output power		kW	90
Rated output power		HP	120 (Heavy load) / 150 (Standard load)
EMC filter			Built-in EMC suppressor cat. C2
Technical features			
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	4565
Rated mains current with mains choke			168 (heavy load) / 200 (standard load)
Output type			Three-phase
Output voltage range		VAC	0480
Output frequency range		Hz	0599
Current overload		%/s	150% for 60s; 200% for 3s
Apparent output power			121 (heavy load) / 145 (standard load)
Power loss			4kHz: 1961W (heavy load) / 2348 (standard load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	200
	Category C1	m	3
	Category C2	m	20
	Category C3	m	100

Unshielded



POWER UNIT, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C2, 90KW

VLB30900A480XX

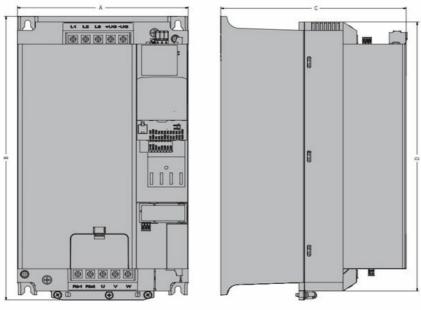
	Without EMC category	m	200
Functions Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode, servo control with encoder feedback, multipoint V/f curve, V/f closed loop control with encoder feedback, torque setpoint, sensorless control for synchronous motors up to 22kW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

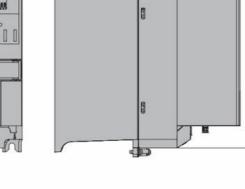


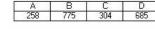
			Overcurrent
			Output short
			circuit and
			earth/ground
			leakage
Protections			Overvoltage
FIOLECIIONS			
			Undervoltage
			Phase loss Motor
			heat overload
			(i2t) Overspeed
			Speed reverse
			Multi-pump PID
			control (1 main
			pump frequency
			regulated + 2
Special funct.			
			auxiliary pumps
			activated in direct
			mode in case of
			necessity)
Input and Output			
Number of digital input		Nr.	5
Digital input type			Selectable PNP
			or NPN logic
Number of digital output		Nr.	2
			1 relay output
			with changeover
Digital output arrangement			contact (C/O-
Digital output analygement			SPDT) + 1 digital
			output
			Relay output: 3A
Output contacts ratings			250VAC Digital
			output: 100mA
			max 30VDC
Number of analog input		Nr.	2
			Configurable
			0/210VDC,
Analog input type			-10+10VDC,
			05VDC, 0/4
			20mA
Number of analog output		Nr.	1
			configurable as
			010VDC, 0
Analog output type			5VDC, 2
			10VDC, 0/4
			20mA
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-10
	min		
	max	°C	+55



	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	258 x 775 x 304
Weight		Kg	35.6
Dimensions		-	



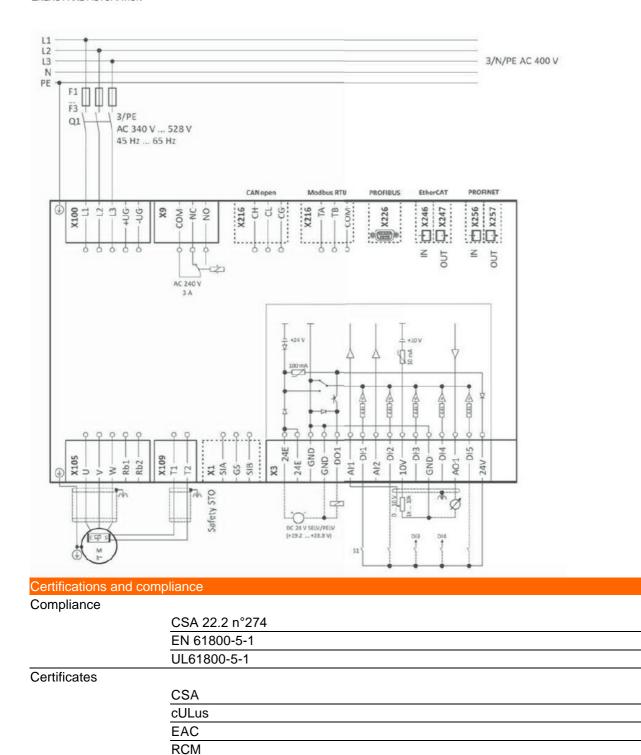




Wiring diagrams



VLB30900A480XX POWER UNIT, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C2, 90KW



ETIM classification

ETIM 8.0

EC001857 -Frequency converter =< 1 kV