



		ALC: NO. ALC.
Product designation		Variable speed
		drives
Product type designation General characteristics		VLB3
		400480VAC
Rated power supply voltage		50/60Hz
Rated output voltage	VAC	Three-phase 0 480VAC 0-599H
Rated output current	A	32
Rated output power	kW	15
Rated output power	HP	20 (Heavy load) / 25 (Standard load)
EMC filter		Built-in EMC suppressor cat. C2
Communication port		RS485, Modbus- RTU
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 without mains choke		38.7 (heavy load) / 48 (standard load)
Rated mains current with mains choke		28.8 (heavy load) / 36 (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		22 (heavy load) / 26 (standard load)
Power loss		4kHz: 360W (heavy load) / 430 (standard load)
Brake chopper		Yes
Switching frequency		216kHz

Shielded

Without EMC category m

100

0 electric ENERGY AND AUTOMATION

VLB30150A480 CONVERTIZOR DE FRECVENTA, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C2, 15 KW

Unshielded Without EMC category m 200 Functions V/f linear, quadratic sensorles V/f linear, quadratic sensorles Motor control modes ECO modes servo con encoder feedback multipoin curve, V/ loop cont encoder feedback setpoint,	c torque,
Functions V/f linear, quadratic vector co ECO model ECO model Servo con Motor control modes feedback Motor control modes feedback multipoin curve, V/ loop contended feedback encoder feedback	c torque,
quadratic sensories vector co ECO mod servo cor encoder Motor control modes Motor control modes feedback multipoin curve, V/ loop cont encoder feedback	c torque,
sensorles	ontrol, ode, ntrol with k, nt V/f /f closed trol with <, torque
External potention 010kΩ signals: 0 10VDC o +10VDC signals: 0 20mA But front keyt Door-modi Door-modi installatio preset sp via digital Motor potention Motor potention	2 Voltage 0 or -10 Current 0/4 uttons on board board board point fon kit 15 peeds I inputs
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 and rinse	
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	

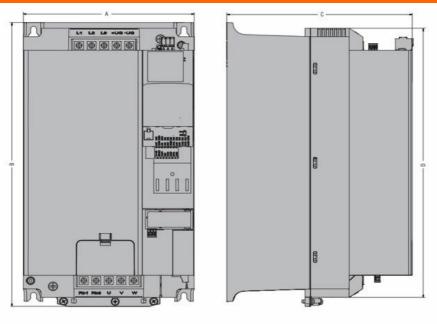
OVE electric ENERGY AND AUTOMATION

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		Nr.	5 Selectable PNP
Digital input type			or NPN logic
Number of digital output		Nr.	2
Digital output arrangement			1 relay output with changeover contact (C/O- SPDT) + 1 digital output Relay output: 3A
Output contacts ratings			250VAC Digital output: 100mA max 30VDC
Number of analog input		Nr.	2
Analog input type			Configurable 0/210VDC, -10+10VDC, 05VDC, 0/4 20mA
Number of analog output		Nr.	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



	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	Batch <=D 204.5 x 366 x 222 Batch >=E 180 x 384 x 165
Weight		Kg	10.65
Dimonsions		-	

Dimensions



Batch number	A	В	С	D
letter D or lower	204,5	366	222	347
letter E or greater	180	384	165	342

Wiring diagrams

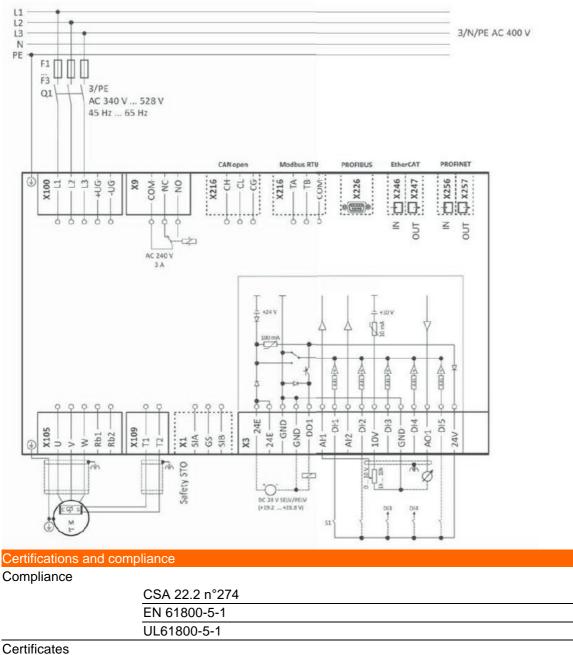
VLB30150A480



CONVERTIZOR DE FRECVENTA, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR

ENERGY AND AUTOMATION

EMC INCORPORAT CAT. C2, 15 KW



EN 61800-5-1
UL61800-5-1
CSA
cULus
EAC
RCM

ETIM classification

ETIM 8.0

EC001857 -Frequency converter =< 1 kV