



Product designation			Variable speed
-			drives
Product type designation			VLB3
General characteristics			
Rated power supply voltage			400…480VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		А	3.9
Rated output power		kW	1.5
Rated output power		HP	2 (heavy 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 without mains choke			5.4
Rated mains current with mains choke			3.7
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			2.6 (heavy load)
Power loss			4kHz: 48W (heavy load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	50m / 100m (40°C max, switching frequency 4kHz max)
	Category C1	m	3
	Category C2	m	20
	Category C3	m	35
Linghielded			

Unshielded

Without EMC of	category
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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
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 potentiom
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



Protections			Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed
Special funct.			Speed reverse 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
Digital input type		111.	Selectable PNP or NPN logic
Number of digital output		Nr.	2
Digital output arrangement Output contacts ratings			1 relay output with changeover contact (C/O- SPDT) + 1 digital output Relay output: 3A 250VAC Digital output: 100mA
		N I.	max 30VDC
Number of analog input Analog input type		Nr.	2 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	℃ ℃	-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	60 x 278 x 130
Weight		Kg	1.35
Dimensions			



VLB30015A480XX

UNITÉ DE PUISSANCE TRIPHASÉ CAT C2 POUR VLB3 3P 1,5KW 400...480VAC

