UNITATE DE PUTERE, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C1, 0.75 KW

| Product designation | | | Variable speed |
|---|--------------------------|-----|--|
| Product type designation | | | drives VLB3 |
| General characteristics | | | VLDS |
| | | | 400480VAC |
| Rated power supply voltage | | | 50/60Hz |
| Rated output voltage | | VAC | Three-phase 0 480VAC 0-599Hz |
| Rated output current | | Α | 2.4 |
| Rated output power | | kW | 0.75 |
| Rated output power | | HP | 1 (heavy load) |
| EMC filter | | | Built-in EMC suppressor cat. C1/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 | | | 3.3 |
| Rated mains current with mains choke | | | 2.6 |
| 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 | | | 1.6 (heavy load) |
| Power loss | | | 4kHz: 32W (heavy load) |
| Brake chopper | | | Yes |
| Switching frequency | | | 216kHz |
| Max motor cable length | | | |
| Shielded | | | |
| | | | 50m / 100m |
| , | Al'il a d'ENAO a da cara | | (40°C max, |
| · · | Vithout EMC category | m | switching frequency 4kHz max) |
| | Category C1 | m | 3 |
| | Category C2 | m | 20 |
| | Category C3 | m | 20 |
| Unshielded | <u> </u> | | |



100m / 150m



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| | Without EMC category | m | 100m / 150m (40°C max, switching frequency 4kHz max) |
|--|----------------------|---|--|
| Functions | | | 2.4/6.11 |
| 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 |
| | | | External |
| Speed reference signals | | | 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 with alone |
| PID control | | | Yes, with sleep and rinse function |
| Sequencer (programmable frequency/time cycles) | | | Yes |
| Preset speeds | | | Yes |
| Motorpotentiometer Diff. | | | Yes |
| Different parameter configuration sets | | | Yes |
| Parameters changeover function | | | Yes |
| Favorite parameters menu | | | Yes |
| Autotuning Sets targue Off (STO) sets tunction | | | No |
| Safe torque Off (STO) safety function PTC probe input | | | Optional Yes |
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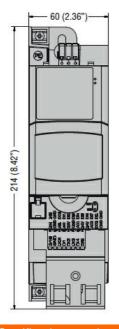
| Protections | | | Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID control (1 main pump frequency |
|-----------------------------------|------------|-----|---|
| Special funct. | | | regulated + 2 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 |
| 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 | | 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 | -10 +55 |

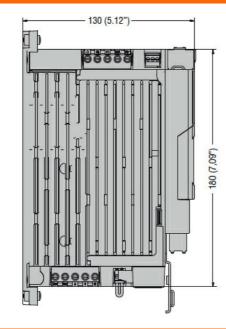




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| | Current derating | | switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C |
|--------------------------|------------------|----|---|
| Storage temperature | | | |
| | min | °C | -25 |
| | max | °C | +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 214 x 130 |
| Weight | _ | Kg | 1 |
| Dimensions | | | |





Certifications and compliance

| _ | | | | |
|--------|---|-----|--------|-----|
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CSA 22.2 n°274

EN 61800-5-1

UL61800-5-1

Certificates

CSA

cULus

EAC



VLB30007A480XX

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RCM

ETIM classification

ETIM 8.0

EC001857 -Frequency converter =< 1 kV