

■ Product range



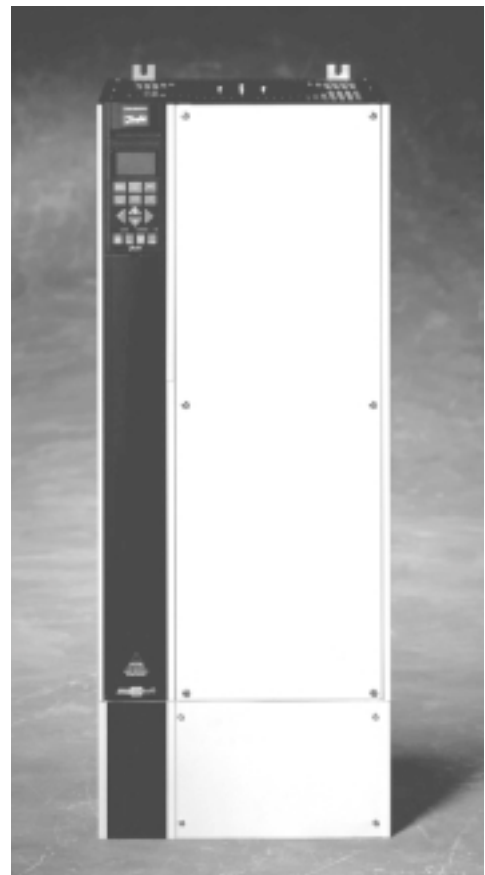
VLT Series 5000



VLT 5001-5006 200-240V  
VLT 5001-5011 380-500V



VLT 5008-5027 200-240V  
VLT 5016-5052 380-500V



VLT 5032-5052 200-240V  
VLT 5060-5250 380-500V

## VLT® 5000 Series

Mains voltage 380 - 440 V

VLT type	Typical shaft output $P_{VLT,N}$		Max. constant output current $I_{VLT,N}$		Max. constant output at 415 V $S_{VLT,N}$	
	High overl. torque (160 %) [kW]	Normal overl. torque (110 %) [kW]	High overl. torque (160 %) [A]	Normal overl. torque (110 %) [A]	High overl. torque (160 %) [kVA]	Normal overl. torque (110 %) [kVA]
5001	0.75	-	2.2	-	1.6	-
5002	1.1	-	2.8	-	2.0	-
5003	1.5	-	4.1	-	2.9	-
5004	2.2	-	5.6	-	4.0	-
5005	3.0	-	7.2	-	5.2	-
5006	4.0	-	10	-	7.2	-
5008	5.5	-	13	-	9.3	-
5011	7.5	-	16	-	11.5	-
5016	11	15	24	32	17.3	23
<b>5022</b>	<b>15</b>	<b>18.5</b>	<b>32</b>	<b>37.5</b>	<b>23</b>	<b>27</b>
5027	18.5	22	37.5	44	27	31.6
5032	22	30	44	61	31.6	43.8
5042	30	37	61	73	43.8	52.5
5052	37	45	73	90	52.5	64.7
5060	45	55	90	106	62	73
5075	55	75	106	147	73	102
5100	75	90	147	177	102	123
5125	90	110	177	212	123	147
5150	110	132	212	260	147	180
5200	132	160	260	315	180	218
5250	160	200	315	368	218	274
5300	200	250	395	480	274	333
5350	250	315	480	600	333	416
5450	315	355	600	658	416	456
5500	355	400	658	745	456	516

Note: With VLT 5060-5500, *High overload torque* is limited to 150%.

-: not possible

## VLT® 5000 Series

**380 / 400 / 415 / 440 / 460 / 500 V**

VLT	kW	Enclosure	Vers.	RFI	Ordering No.	
					W/ LCP	W/o LCP
5001	0.75	IP 20	ST	R3	175Z0119	175Z0116
			SB	R3	175Z0120	175Z0117
			EB	R3	175Z0121	175Z0118
5001	0.75	IP 54	ST	R3	175Z0233	
			SB	R3	175Z0234	
			EB	R3	175Z0235	
5002	1.1	IP 20	ST	R3	175Z0125	175Z0122
			SB	R3	175Z0126	175Z0123
			EB	R3	175Z0127	175Z0124
5002	1.1	IP 54	ST	R3	175Z0245	
			SB	R3	175Z0246	
			EB	R3	175Z0247	
5003	1.5	IP 20	ST	R3	175Z0131	175Z0128
			SB	R3	175Z0132	175Z0129
			EB	R3	175Z0133	175Z0130
5003	1.5	IP 54	ST	R3	175Z0257	
			SB	R3	175Z0258	
			EB	R3	175Z0259	
5004	2.2	IP 20	ST	R3	175Z0137	175Z0134
			SB	R3	175Z0138	175Z0135
			EB	R3	175Z0139	175Z0136
5004	2.2	IP 54	ST	R3	175Z0269	
			SB	R3	175Z0270	
			EB	R3	175Z0271	
5005	3.0	IP 20	ST	R3	175Z0143	175Z0140
			SB	R3	175Z0144	175Z0141
			EB	R3	175Z0145	175Z0142
5005	3.0	IP 54	ST	R3	175Z0281	
			SB	R3	175Z0282	
			EB	R3	175Z0283	
5006	4.0	IP 20	ST	R3	175Z0149	175Z0146
			SB	R3	175Z0150	175Z0147
			EB	R3	175Z0151	175Z0148
5006	4.0	IP 54	ST	R3	175Z0293	
			SB	R3	175Z0294	
			EB	R3	175Z0295	
5008	5.5	IP 20	ST	R3	175Z0155	175Z0152
			SB	R3	175Z0156	175Z0153
			EB	R3	175Z0157	175Z0154
5008	5.5	IP 54	ST	R3	175Z0305	
			SB	R3	175Z0306	
			EB	R3	175Z0307	
5011	7.5	IP 20	ST	R1	175Z0161	175Z0158
			SB	R1	175Z0162	175Z0159
			EB	R1	175Z0163	175Z0160
5011	7.5	IP 54	ST	R1	175Z0317	
			SB	R1	175Z0318	
			EB	R1	175Z0319	

**380 / 400 / 415 / 440 / 460 / 500 V**

VLT	kW	Enclosure	Vers.	RFI	Ordering No.	
					W/ LCP	W/o LCP
5016	11	IP 20	ST	R0	175Z4096	175Z4090
			SB	R0	175Z4097	175Z4091
			EB	R0	175Z4098	175Z4092
5016	11	IP 54	ST	R3	175Z4099	175Z4093
			SB	R3	175Z4100	175Z4094
			EB	R3	175Z4101	175Z4095
5016	11	IP 54	ST	R0	175Z4102	
			SB	R0	175Z4103	
			EB	R0	175Z4104	
5022	15	IP 20	ST	R0	175Z4114	175Z4108
			SB	R0	175Z4115	175Z4109
			EB	R0	175Z4116	175Z4110
5022	15	IP 54	ST	R3	175Z4117	175Z4111
			SB	R3	175Z4118	175Z4112
			EB	R3	175Z4119	175Z4113
5022	15	IP 54	ST	R0	175Z4120	
			SB	R0	175Z4121	
			EB	R0	175Z4122	
5022	15	IP 54	ST	R3	175Z4123	
			SB	R3	175Z4124	
			EB	R3	175Z4125	
5027	18.5	IP 20	ST	R0	175Z4132	175Z4126
			SB	R0	175Z4133	175Z4127
			EB	R0	175Z4134	175Z4128
5027	18.5	IP 20	ST	R3	175Z4135	175Z4129
			SB	R3	175Z4136	175Z4130
			EB	R3	175Z4137	175Z4131
5027	18.5	IP 54	ST	R0	175Z4138	
			SB	R0	175Z4139	
			EB	R0	175Z4140	
5027	18.5	IP 54	ST	R3	175Z4141	
			SB	R3	175Z4142	
			EB	R3	175Z4143	

LCP: Control unit with display and keypad.

ST: Standard unit with/without control unit.

SB: Standard unit with/without control unit and integral brake chopper.

EB: Extended unit with/without control unit, integral brake chopper, connection of external 24 volt DC supply for back-up of control card, connection to DC intermediate circuit for load-sharing (load equalisation between several VLT frequency converters), and quick discharging of DC intermediate circuit.

R0: The VLT frequency converter is supplied without a RFI filter.

R1: With RFI filter option, compliance of EN 55011-1A with 150 m screened motor cable.

R3: With RFI filter option, compliance of EN 55011-1B with 50 m (Bookstyle 20 m) screened motor cable and EN 55011-1A with 150 screened motor cable.

# COMPACT

■ Ordering form VLT 5000 Series - Typecode

VLT 5 - P - T - - - R - D - F - A - C

**Power sizes**  
e.g. 5008

**Application**  
Process P

**Mains voltage**  
3 x 200 - 240 V T 2  
3 x 380 - 500 V T 5

**Enclosure**  
Bookstyle IP 20 B 20  
5001-5006 / 200-240 V  
5001-5011 / 380-500 V IP 00 C 00  
5032-5052 / 200-240 V  
5060-5500 / 380-500 V IP 20 C 20  
5001-5052 / 200-240 V  
5001-5500 / 380-500 V IP 54 C 54

**Hardware variant**  
Standard ST  
Standard with brake SB  
Extended with brake, load-sharing and external 24 V DC. EB  
Extended with loadsharing and external 24 V DC. EX  
Only available for VLT 5300-5500 380-500 V  
Extended with brake, load-sharing, external 24 V DC and built-in mains fuses and disconnecter. DE  
Only available for VLT 5300-5500 380-500 V  
Extended with loadsharing, external 24 V DC and built-in mains fuses and disconnecter. DX

**RFI-filter**  
Available w/o filter in the ranges R 0  
5008-5052 / 200-240 V  
5016-5250 / 380-500 V  
With integral 1A-filter, R 1  
With integral 1A + 1B-filter R 3

**Control unit (LCP)**  
W/o LCP (not an option with IP 54 and VLT 5300-5500) D 0  
W/ LCP DL

**Fieldbus-optionscard**  
No option F 00  
Profibus DP/FMS F 10  
Modbus Plus F 20  
DeviceNet F 30  
LonWorks Free Topology Process F 40  
LonWorks 78 KBPS F 41  
LonWorks 1,25 MBPS F 42

**Application option cards**  
No option A 00  
With synchronizing/positioning option A 10  
With relay card (not with fieldbus option) A 31

**Coating**  
Without conformal coating C 0  
With conformal coating C 1

**No. units of this type**  
[ ][ ]

**Required delivery date**  
[ ][ ][ ][ ][ ]

**Ordered by:**  
[ ]

Date: \_\_\_\_\_

Take a copy of the ordering forms. Fill them in and send or fax your order to the nearest office of the Danfoss sales organisation.

**■ General technical data**
**Mains supply (L1, L2, L3):**


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Supply voltage 200-240 V units .....	3 x 200/208/220/230/240 V ±10%
Supply voltage 380-500 V units .....	3 x 380/400/415/440/460/500 V ±10%
Supply frequency .....	50/60 Hz +/- 1%
Max. imbalance of supply voltage:	
VLT 5001-5011 / 380-500 V and VLT 5001-5006 / 200-240 V .....	±2% of rated supply voltage
VLT 5016-5052 / 380-500 V and VLT 5008-5027 / 200-240 V .....	±1.5% of rated supply voltage
VLT 5060-5500 / 380-500 V and VLT 5032-5052 / 200-240 V .....	±3% of rated supply voltage
Power factor / cos. $\phi$ .....	0.90/1.0 at rated load
No. of switches on supply input L1, L2, L3 .....	approx. 1 time/min.
Max. shortcircuit rating .....	100,000 A

*See the section on special conditions in the Design Guide*

**VLT output data (U, V, W):**


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Output voltage .....	0-100% of supply voltage
Output frequency .....	0 - 132 Hz, 0 - 1000 Hz
Rated motor voltage, 200-240 V units .....	200/208/220/230/240 V
Rated motor voltage, 380-500 V units .....	380/400/415/440/460/480/500 V
Rated motor frequency .....	50/60 Hz
Switching on output .....	Unlimited
Ramp times .....	0.05-3600 sec.

**Torque characteristics:**


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Starting torque, VLT 5001-5027, 200-240 V and VLT 5001 - 5052, 380 - 500 V .....	160% for 1 min.
Starting torque, VLT 5032-5052, 200 - 240 V and VLT 5060-5500, 380-500 V .....	150% for 1 min.
Starting torque .....	180% for 0.5 sec.
Acceleration torque .....	100%
Overload torque, VLT 5001-5027, 200 - 240 V and VLT 5001-5052, 380 - 500 V .....	160%
Overload torque, VLT 5032-5052, 200 - 240 V and VLT 5060-5500, 380 - 500 V .....	150%
Arresting torque at 0 rpm (closed loop) .....	100%

*The torque characteristics given are for the VLT frequency converter at the high overload torque level (160%). At the normal overload torque (110%), the values are lower.*

**Control card, digital inputs:**


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Number of programmable digital inputs .....	8
Terminal nos. ....	16, 17, 18, 19, 27, 29, 32, 33
Voltage level .....	(0-24 V DC (PNP positive logics)
Voltage level, logical '0' .....	< 5 V DC
Voltage level, logical '1' .....	> 10 V DC
Maximum voltage on input .....	28 V DC
Input resistance, $R_i$ .....	approx. 2 k $\Omega$
Scanning time per input .....	3 msec.

*Reliable galvanic isolation: All digital inputs are galvanically isolated from the supply voltage (PELV). In addition, the digital inputs can be isolated from the other terminals on the control card by connecting an external 24 V DC supply and opening switch 4.*

**■ General technical data**
Control card, analogue inputs:


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No. of programmable analogue voltage inputs/thermistor inputs .....	2
Terminal nos. ....	53, 54
Voltage level .....	0 - ±10 V DC (scalable)
Input resistance, $R_i$ .....	approx. 10 k $\Omega$
No. of programmable analogue current inputs .....	1
Terminal no. ....	60
Current range .....	0/4 - ±20 mA (scalable)
Input resistance, $R_i$ .....	200 $\Omega$
Resolution .....	10 bit + sign
Accuracy on input .....	Max. error 1% of full scale
Scanning time per input .....	3 msec.
Terminal no. ground .....	55

*Reliable galvanic isolation: All analogue inputs are galvanically isolated from the supply voltage (PELV) as well as other inputs and outputs.*

Control card, pulse/encoder input:


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No. of programmable pulse/encoder inputs .....	4
Terminal nos. ....	17, 29, 32, 33
Max. frequency on terminal 17 .....	5 kHz
Max. frequency on terminals 29, 32, 33 .....	20 kHz (PNP open collector)
Max. frequency on terminals 29, 32, 33 .....	65 kHz (Push-pull)
Voltage level .....	0-24 V DC (PNP positive logics)
Voltage level, logical '0' .....	< 5 V DC
Voltage level, logical '1' .....	> 10 V DC
Maximum voltage on input .....	28 V DC
Input resistance, $R_i$ .....	approx. 2 k $\Omega$
Scanning time per input .....	3 msec.
Resolution .....	10 bit + sign
Accuracy (100-1 kHz), terminals 17, 29, 33 .....	Max. error: 0.5% of full scale
Accuracy (1-5 kHz), terminal 17 .....	Max. error: 0.1% of full scale
Accuracy (1-65 kHz), terminals 29, 33 .....	Max. error: 0.1% of full scale

*Reliable galvanic isolation: All pulse/encoder inputs are galvanically isolated from the supply voltage (PELV). In addition, pulse and encoder inputs can be isolated from the other terminals on the control card by connecting an external 24 V DC supply and opening switch 4.*

Control card, digital/pulse and analogue outputs:


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No. of programmable digital and analogue outputs .....	2
Terminal nos. ....	42, 45
Voltage level at digital/pulse output .....	0 - 24 V DC
Minimum load to ground (terminal 39) at digital/pulse output .....	600 $\Omega$
Frequency ranges (digital output used as pulse output) .....	0-32 kHz
Current range at analogue output .....	0/4 - 20 mA
Maximum load to ground (terminal 39) at analogue output .....	500 $\Omega$
Accuracy of analogue output .....	Max. error: 1.5% of full scale
Resolution on analogue output .....	8 bit

*Reliable galvanic isolation: All digital and analogue outputs are galvanically isolated from the supply voltage (PELV) as well as other inputs and outputs.*

**■ General technical data**
Control card, 24 V DC supply:

Terminal nos. ....	12, 13
Max. load (short-circuit protection) .....	200 mA
Terminal nos. ground.....	20, 39

*Reliable galvanic isolation: The 24 V DC supply is galvanically isolated from the supply voltage (PELV), but has the same potential as the analogue outputs.*

Control card, RS 485 serial communication:

Terminal nos. ....	68 (TX+, RX+), 69 (TX-, RX-)
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Reliable galvanic isolation: Full galvanic isolation.

Relay outputs:

No. of programmable relay outputs .....	2
Terminal nos., control card .....	4-5 (make)
Max. terminal load (AC) on 4-5, control card .....	50 V AC, 1 A, 60 VA
Max. terminal load (DC) on 4-5, control card .....	75 V DC, 1 A, 30 W
Max. terminal load (DC) on 4-5, control card for UL/cUL applications.....	30 V AC, 1 A/42.5 V DC, 1 A
Terminal nos., power card .....	1-3 (break), 1-2 (make)
Max. terminal load (AC) on 1-3, 1-2, power card and relay card .....	240 V AC, 2 A, 60 VA
Max. terminal load on 1-3, 1-2, power card and relay card .....	50 V DC, 2 A
Min. terminal load on 1-3, 1-2, power card and relay card .....	24 V DC 10 mA, 24 V AC 100 mA

Brake resistor terminals (only SB and EB units):

Terminal nos. ....	81, 82
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External 24 Volt DC supply:

Terminal nos. ....	35, 36
Voltage range .....	24 V DC $\pm$ 15% (max. 37 V DC for 10 sec.)
Max. voltage ripple .....	2 V DC
Power consumption .....	15 W - 50 W (50 W for start-up, 20 msec.)
Min. pre-fuse .....	6 Amp

*Reliable galvanic isolation: Full galvanic isolation if the external 24 V DC supply is also of the PELV type.*

Cable lengths and cross-sections:

Max. motor cable length, screened cable .....	150 m
Max. motor cable length, unscreened cable .....	300 m
Max. motor cable length, screened cable VLT 5011 380-500 V .....	100 m
Max. brake cable length, screened cable .....	20 m
Max. loadsharing cable length, screened cable .....	25 m from frequency converter to DC bar.

*Max. cable cross-section for motor, brake and loadsharing, see next section*

Max. cable cross-section for 24 V external DC supply .....	4.0 mm <sup>2</sup> /10 AWG
Max. cross-section for control cables .....	1.5 mm <sup>2</sup> /16 AWG
Max. cross-section for serial communication .....	1.5 mm <sup>2</sup> /16 AWG

Accuracy of display readout (parameters 009-012):

Motor current [6] 0-140% load .....	Max. error: $\pm$ 2.0% of rated output current
Torque % [7], -100 - 140% load .....	Max. error: $\pm$ 5% of rated motor size
Output [8], power HP [9], 0-90% load .....	Max. error: $\pm$ 5% of rated output

**■ General technical data**
Control characteristics:

Frequency range .....	0 - 1000 Hz
Resolution on output frequency .....	±0.003 Hz
System response time .....	3 msec.
Speed, control range (open loop) .....	1:100 of synchro. speed
Speed, control range (closed loop) .....	1:1000 of synchro. speed
Speed, accuracy (open loop) .....	< 1500 rpm: max. error ± 7.5 rpm
	> 1500 rpm: max. error of 0.5% of actual speed
Speed, accuracy (closed loop) .....	< 1500 rpm: max. error ± 1.5 rpm
	> 1500 rpm: max. error of 0.1% of actual speed
Torque control accuracy (open loop) .....	0- 150 rpm: max. error ±20% of rated torque
	150-1500 rpm: max. error ±10% of rated torque
	> 1500 rpm: max. error ±20% of rated torque
Torque control accuracy (speed feedback) .....	Max. error ±5% of rated torque

*All control characteristics are based on a 4-pole asynchronous motor*

Externals:

Enclosure .....	IP 00, IP 20, IP 54
Vibration test .....	0.7 g RMS 18-1000 Hz random. 3 directions for 2 hours (IEC 68-2-34/35/36)
Max. relative humidity .....	93 % (IEC 68-2-3) for storage/transport
Max. relative humidity .....	95 % non condensing (IEC 721-3-3; class 3K3) for operation
Ambient temperature IP 20 (high overload torque 160%) .....	Max. 45°C (24-hour average max. 40°C)
Ambient temperature IP 20 (normal overload torque 110%) .....	Max. 40°C (24-hour average max. 35°C)
Ambient temperature IP 54 (high overload torque 160%) .....	Max. 40°C (24-hour average max. 35°C)
Ambient temperature IP 54 (normal overload torque 110%) .....	Max. 40°C (24-hour average max. 35°C)
Ambient temperature IP 20/54 VLT 5011 500 V .....	Max. 40°C (24-hour average max. 35°C)
Min. ambient temperature in full operation .....	0°C
Min. ambient temperature at reduced performance .....	-10°C
Temperature during storage/transport .....	-25 - +65/70°C
Max. altitude above sea level .....	1000 m
EMC standards applied, Emission .....	EN 50081-1/2, EN 61800-3, EN 55011, EN 55014
Immunity .....	EN 50082-2, EN 61000-4-2, IEC 1000-4-3, EN 61000-4-4
	EN 61000-4-5, ENV 50140, ENV 50141, VDE 0160/1990.12

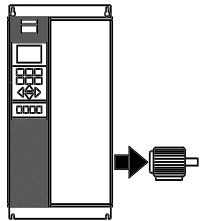
*See section on special conditions in the Design Guide*

VLT 5000 Series protection:

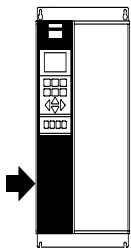
- Electronic motor thermal protection against overload.
- Temperature monitoring of heat-sink ensures that the VLT frequency converter cuts out if the temperature reaches 90°C for IP 00 and IP 20. For IP 54, the cut-out temperature is 80°C. An overtemperature can only be reset when the temperature of the heat-sink has fallen below 60°C.
- The VLT frequency converter is protected against short-circuiting on motor terminals U, V, W.
- The VLT frequency converter is protected against earth fault on motor terminals U, V, W.
- Monitoring of the intermediate circuit voltage ensures that the VLT frequency converter cuts out if the intermediate circuit voltage gets too high or too low.
- If a motor phase is missing, the VLT frequency converter cuts out.
- If there is a mains fault, the VLT frequency converter is able to carry out a controlled deramping.
- If a mains phase is missing, the VLT frequency converter will cut out when a load is placed on the motor.

**■ Mains supply 3 x 380 - 500 V**

According to international requirements		VLT type	5016	5022	5027	5032	5042	5052
Normal overload torque (110 %):								
Output current	$I_{VLT,N}$ [A] (380-440 V)		32	37.5	44	61	73	90
	$I_{VLT,MAX}$ (60 s) [A] (380-440 V)		35.2	41.3	48.4	67.1	80.3	99
	$I_{VLT,N}$ [A] (441-500 V)		27.9	34	41.4	54	65	78
	$I_{VLT,MAX}$ (60 s) [A] (441-500 V)		30.7	37.4	45.5	59.4	71.5	85.8
Output	$S_{VLT,N}$ [kVA] (380-440 V)		24.4	28.6	33.5	46.5	55.6	68.6
	$S_{VLT,N}$ [kVA] (441-500 V)		24.2	29.4	35.8	46.8	56.3	67.5
Typical shaft output	$P_{VLT,N}$ [kW]		15	18.5	22	30	37	45
Typical shaft output	$P_{VLT,N}$ [HP]		20	25	30	40	50	60
High overload torque (160 %):								
Output current	$I_{VLT,N}$ [A] (380-440 V)		24	32	37.5	44	61	73
	$I_{VLT,MAX}$ (60 s) [A] (380-440 V)		38.4	51.2	60	70.7	97.6	116.8
	$I_{VLT,N}$ [A] (441-500 V)		21.7	27.9	34	41.4	54	65
	$I_{VLT,MAX}$ (60 s) [A] (441-500 V)		34.7	44.6	54.4	66.2	86	104
Output	$S_{VLT,N}$ [kVA] (380-440 V)		18.3	24.4	28.6	33.5	46.5	55.6
	$S_{VLT,N}$ [kVA] (441-500 V)		18.8	24.2	29.4	35.9	46.8	56.3
Typical shaft output	$P_{VLT,N}$ [kW]		11	15	18.5	22	30	37
Typical shaft output	$P_{VLT,N}$ [HP]		15	20	25	30	40	50
Max. cable cross-section to motor, brake and loadsharing [mm <sup>2</sup> ]/[AWG] <sup>2)</sup>	IP 54	16/6	16/6	16/6	35/2	35/2	50/0	
	IP 20	16/6	16/6	35/2	35/2	35/2	50/0	
Min. cable cross-section to motor, brake and loadsharing [mm <sup>2</sup> ]/[AWG]		10/8	10/8	10/8	10/8	10/8	16/6	



Rated input current	$I_{L,N}$ [A] (380 V)		32	37.5	44	60	72	89
	$I_{L,N}$ [A] (460 V)		27.6	34	41	53	64	77
Max. cable cross-section, power [mm <sup>2</sup> ]/[AWG]	IP 54	16/6	16/6	16/6	35/2	35/2	50/0	
	IP 20	16/6	16/6	35/2	35/2	35/2	50/0	
Max. pre-fuses [-]/UL <sup>1)</sup> [A]		63/40	63/50	63/60	80/80	100/100	125/125	
Pre-fuse SMPS [-]/UL <sup>1)</sup> [A]		4.0/4.0						
Efficiency		0.96						
Weight IP 20 EB	[kg]	23	23	30	30	48	48	
Weight IP 54	[kg]	48	48	51	61	67	70	
Power loss at max. load.								
- high overload torque (160 %)	[W]	419	559	655	768	1065	1275	
- normal overload torque (110 %)	[W]	559	655	768	1065	1275	1571	
Enclosure		IP 20/IP 54						



1. If UL/cUL is to be complied with, pre-fuses type Bussmann KTS-R or similar must be used. Pre-fuses type gG must be used for VLT 5001 - VLT 5027, 200/240 V and VLT 5001 - VLT 5052, 380/500 V. Pre-fuses type gR must be used for VLT 5032 - 5052, 200/240 V and VLT 5060 - VLT 5500, 380/500 V. Fuses must be designed for protection in a circuit capable of supplying a maximum of 100,000 Amps ms (symmetrical), 500 V maximum.
2. American Wire Gauge.
3. Measured using 30 m screened motor cables at rated load and rated frequency.
4. Min. cable cross-section is the smallest cable cross-section allowed to be fitted on the terminals.  
Always comply with national and local regulations on min. cable cross-section.

■ Compact IP 20

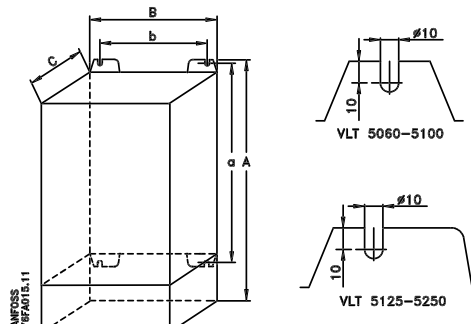
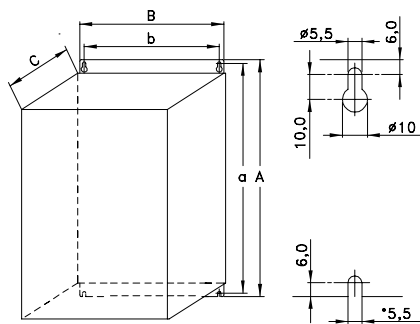
IP 20 enclosure 200-240 V							
VLT type	A (mm)	B (mm)	C (mm)	a (mm)	b (mm)	ab/be (mm)	l/r (mm)
5001 - 5003	395	220	160	384	200	100	0
5004 - 5006	395	220	200	384	200	100	0
5008	560	242	260	540	200	200	0
5011 - 5016	700	242	260	680	200	200	0
5022 - 5027	800	308	296	780	270	200	0
5032 - 5052	954	370	335	780	270	225	0

IP 20 enclosure 380-500 V							
VLT type	A (mm)	B (mm)	C (mm)	a (mm)	b (mm)	ab/be (mm)	l/r (mm)
5001 - 5005	395	220	160	384	200	100	0
5006 - 5011	395	220	200	384	200	100	0
5016 - 5022	560	242	260	540	200	200	0
5027 - 5032	700	242	260	680	200	200	0
5042 - 5052	800	308	296	780	270	200	0
5060 - 5100	975	370	335	780	270	225	0
5125 - 5250	1575	420	400	1380	350	225	0
5300 - 5500	2010	1200	600	-	-	400	0

ab: Min. space above enclosure.

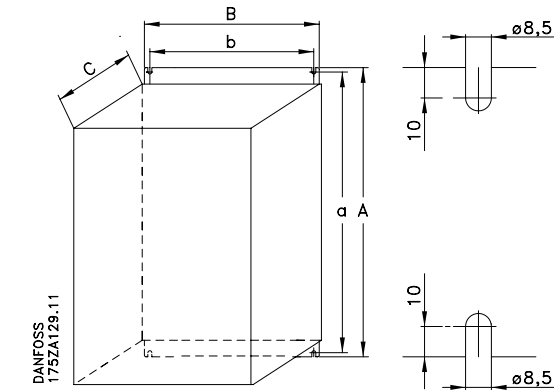
be: Min. space below enclosure.

l/r: Min. distance between VLT frequency converter and other plant components, left and right sides.

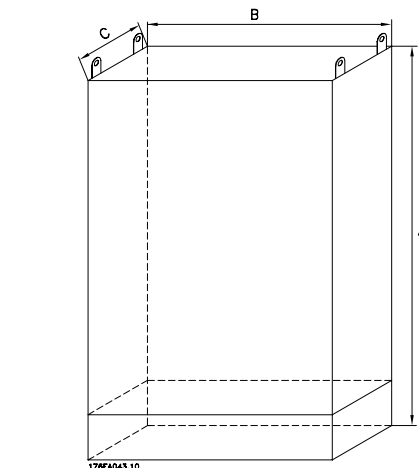


DANFOSS 175ZA099.12  
VLT 5001 - 5006/200-240 V  
VLT 5001 - 5011/380-500 V

VLT 5032 - 5052/200-240 V  
VLT 5060 - 5250/380-500 V



DANFOSS 175ZA129.11  
VLT 5008 - 5027/200-240 V  
VLT 5016 - 5052/380-500 V



VLT 5300 - 5500/380-500 V