



Delta AC Variable Speed Drives



MECHTRIC

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Delta Drives

Mechtrix provides reliable power distribution and protection solutions — including switch disconnectors, changeover switches, and isolators — engineered for safe control, operational continuity, and efficient energy management across industrial and commercial systems.



ME300 Series (Micro Drive)

- Single phase 0.2 to 2.2 kW; 3-phase 0.4 to 7.5 kW
- Ideal for fans, pumps, conveyors, and packaging machines
- Ultra-compact size allows flexible side-by-side installation
- Supports both Induction and Permanent Magnet motors
- Pre-configured parameters for common applications



MS300 Series (Compact and Standard)

- Single-phase 0.2–2.2 kW; 3-phase 0.4–22 kW
- Available in IP20 or IP66
- Perfect for machine tools, conveyors, fans, and pumping systems
- Integrated Safe Torque Off (STO) SIL2 safety function
- Built-in PLC and USB port for easy setup
- Pre-configured parameter groups for pumps, fans, and conveyors



CP2000 Series (HVAC & Fan/Pump)

- 3-phase 1.5 kW to 500 kW
- › Dedicated to HVAC, building automation, and large pumps
- › Multi-pump control manages circulation for up to eight motors
- › Fire Mode ensures operation during emergency smoke extraction
- › Specialized HVAC parameter groups and PID control functions



VP3000 (High performance & Vector Control)

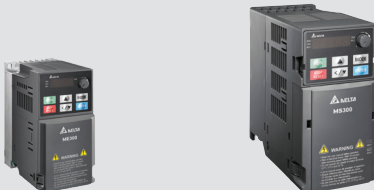
- 3-phase 1.5 kW to 560 kW
- Optimised for water treatment, HVAC, and fluid control
- Built-in Modbus and BACnet for BMS integration
- Dedicated multi-pump and redundancy functions for fluid systems
- Effective harmonic suppression (THDi <35%)



C2000+ Series

- 3-phase 0.75 kW to 560 kW
- Engineered for cranes, hoists, mining, and heavy crushers
- Precise field-oriented control for heavy-duty torque applications
- Built-in PLC with 10k steps programming capacity
- Optimized for heavy-duty constant torque and positioning applications
-



Series		ME300 Series												MS300 Series											
																									
		single-phase					three-phase							single-phase					three-phase						
Model number VFD-__ME/MS/E		1A6	2A8	4A8	7A5	11A	1A5	2A7	4A2	5A5	9A0	13A	17A	1A6	2A8	4A8	7A5	11A	13A	2A7	4A2				
Frame size		A	A	B	C	C	A	A	B	C	C	D	D	A	A	B	C	C	D	A	B				
Max. applicable motor output	kW	0.2	0.4	0.75	1.5	2.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	0.2	0.4	0.75	1.5	2.2	5.5	0.75	1.5				
Output rating																									
Rated output capacity	NORMAL DUTY heavy duty	kVA	0.7	1.2	1.9	3.2	4.8	1.4	2.3	3.5	5	8	12	15.6	0.7	1.2	1.9	3.2	4.8	9.9	2.3	3.5			
Rated output current		A	1.8	3.2	5	8.5	12.5	1.8	3	4.6	6.5	10.5	15.7	20.5	1.8	3.2	5	8.5	12.5	15.7	3	4.6			
Output frequency		Hz	0.0 - 599Hz												0.0 - 599Hz										
Carrier frequency	HEAVY DUTY super heavy duty	kHz	2 - 15kHz												2 - 15 kHz (default 4)										
Rated output capacity		kVA	0.6	1.1	1.8	2.9	4.2	1.1	2.1	3.2	4.2	6.9	9.9	13	0.6	1.1	1.8	2.9	4.2	9.9	2.1	3.2			
Rated output current		A	1.6	2.8	4.8	7.5	11	1.5	2.7	4.2	5.5	9	13	17	1.6	2.8	4.8	7.5	11	13	2.7	4.2			
Carrier frequency	kHz	2 - 15kHz												2 - 15kHz (default 4)											
Input rating																									
Input current (heavy duty)	A	3.4	5.9	10.1	15.8	23.1	1.7	3	4.6	6.1	9.9	14.3	18.7	3.4	5.9	10.1	15.8	23.1	14.3	3.7	5.8				
Input current (normal duty)	A	3.8	6.7	10.5	17.9	26.3	2	3.3	5.1	7.2	11.6	17.3	22.6	3.8	6.7	10.5	17.9	26.35	17.3	4.2	6.4				
Rated voltage	V	1-phase 200-240V (-15 to +10%)					3-phase AC 380V - 480V (-15 to +10%)							1-phase 200-240V (-15 to +10%)			3-phase AC 380V - 480V 50/60Hz								
Operating voltage range	V	170 - 265V					323 - 528V							170 - 264V											
Frequency range	Hz	47 - 63Hz ± 5%												47 - 63Hz ± 5%											
Cooling method		convection		fan			convection		fan cooling					conv.		fan cooling			fan cooling						
Braking chopper		built-in												built-in											
DC reactor		optional												optional											
Control method		V/F, SVC												V/F, SVC,											
Starting torque	%	up to 150% at 3 Hz including auto-torque/slip												up to 150% at 3.0Hz including auto-torque/slip compensation											
Max. output frequency	Hz	0.00-599.00 Hz												0.00-599.00 Hz											
Frequency output accuracy		-												-											
Frequency setting resolution	Hz	0.01Hz												0.01Hz											
Overload tolerance (normal duty, heavy duty)		120% of rated output current for 60 seconds; 150% for 3 seconds												120% of rated output current for 60 seconds; 150% for 3 seconds											
Overload tolerance (heavy duty, super heavy duty)		150% of rated output current for 60 seconds; 200% for 3 seconds												150% of rated output current for 60 seconds; 200% for 3 seconds											
Frequency setting signal		0 - 10V / 4(0)-20mA, PWM pulse width input (1kHz), pulse input (10kHz)												0 - +10 V / -10 V - +10 V, 4 - 20 mA / 0 - +10 V, 1 pulse input (33 kHz), 1 pulse output (33 kHz)											
Accel./decel. Time		0.1 - 600 sec. (2 settings accel/decel time)												0.1 - 600 sec. (2 independent settings accel/decel time)											
Main control functions		2 independent motor parameter settings, fast run, deceleration energy back (DEB) function, fast deceleration function, selectable master and auxiliary frequency source, momentary power loss ride through, speed search, over-torque detection, 16-step speed accel/decel timer, S-curve accel/decel, JOG frequency, upper/lower limits frequency ref, DC injection braking at start and stop, PID control, simple positioning function, Modbus integrated as standard												Multiple motor switches (max. 4 independent motor parameter settings), fast run, deceleration energy back (DEB) function, wobble frequency function, fast deceleration function, master and auxiliary frequency source selectable, momentary power loss ride thru, speed search, over-torque detection, 16-step speed (max.), accel/decel time switch, S-curve accel/decel, 3-wire sequence, JOG frequency, upper/lower limits for frequency reference, DC injection braking at start and stop, PID control, built-in PLC (2k steps), simple positioning function, Modbus is integrated as standard											
Fan control		fan control												fan control											
Motor protection		electronic thermal relay and phase failure protection												over/under-volt/current, external fault, overload, IGBT short circuit, PTC											
Over-current protection		yes												yes											
Over-voltage protection		yes												yes											
Over-temperature protection		yes												yes											
Stall prevention		Stall prevention during acceleration, deceleration and running independently												Stall prevention during acceleration, deceleration and running independently											
Re-start after momentary power off		yes												yes											
Ground current protection		yes												yes											
EMI filter		no												no											
Dimensions (H) x (W) x (D)	H	mm	128	128	142	157	128	128	142	157	207			128	128	142	157	128	128	142					
	W	mm	68	68	72	87	68	68	72	87	109			68	68	72	87	68	68	72					
	D	mm	78	107	127	136	113	127	127	136	138			96	143	143	179	129	143	143					
Weight	kg	0.4	0.5	0.8	1	0.55	0.7	0.8	1	2			0.65	0.95	0.95	1.24	0.76	0.81	1						
Optional accessories		DIN-rail mount adaptor												DeviceNet, Ethernet/IP, Profibus DP, Modbus TCP, CANopen, Ethercat communication cards, external 24 VDC power supply card, DIN-rail mount adaptor, cable for remote mounting of digital keypad											

MS300 Series (IP66)								C2000+ Series																										
																																		
three-phase																																		
5A5	9A0	13A	17A	25A	32A	38A	45A	040	055	075	110	150	185	220	300	370	450	550	750	900	1100	1320	1600	1850	2000	2200	2500	2800	3150	3550	4000	4500	5000	5600
C	C	D	D	E	E	F	F	A	A	B	B	B	C	C	C	D	D	D	D	E	E	F	F	G	G	G	G	H	H	H	H	H	H	H
2.2	3.7	5.5	7.5	11	15	18.5	22	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280	315	355	400	450	500	560
5	8	9.9	13	19.1	24.4	29	34.4	8.4	10	14	19	25	30	36	48	58	73	88	120	143	175	207	247	295	315	367	383	438	491	544	613	690	741	872
6.5	10.5	15.7	20.5	28	36	41.5	49	10.5	12	18	24	32	38	45	60	73	91	110	150	180	220	260	310	370	395	460	481	550	616	683	770	866	930	1094
0.10 - 599.0 Hz								Heavy duty: 0.1 - 599 Hz; super heavy duty: 0.1 - 599 Hz																										
1 - 15 kHz								2 - 15kHz (8kHz)				2 - 10kHz (6kHz)				2 - 10kHz (6kHz)																		
4.2	6.9	9.9	13	19.1	24.4	29	34.3	7.2	8.4	9.6	14	19	25	30	36	48	58	73	88	120	143	175	207	247	247	295	315	366	438	491	544	544	690	741
5.5	9	13	17	25	32	38	45	9	10.5	12	18	24	32	38	45	60	73	91	110	150	180	220	260	310	310	370	395	460	550	616	683	683	866	930
2 - 15kHz (default 4)								2 - 15kHz (4kHz)				2 - 10kHz (4kHz)				2 - 9kHz (4kHz)								2 - 9kHz (3kHz)										
6.1	9.9	9.9	13	19.1	24.4	29	34.3	14.5	16	19	25	33	38	45	60	70	96	108	149	159	197	228	285	361	300	380	390	469	527	594	590	625	866	930
7.2	11.6	13	17	25	32	38	45	15.5	17	20	26	35	40	47	63	74	101	114	157	167	207	240	300	380	397	400	447	494	555	625	770	866	930	1094
3-phase AC 380V ÷ 480V 50/60Hz								3-phase AC 380V ÷ 480V (-15% ÷ +10%), 50/60Hz (also available in 500-690V versions)																										
342 - 528V								323 - 528 VAC																										
47 - 63Hz ± 5%								47 - 63 Hz																										
convection		fan cooling						fan cooling																										
built-in								built -in				optional																						
optional								optional				built-in																						
SPWM (V/F or sensorless vector control)								1: V/F, 2: SVC, 3: VF+PG, 4: FOC+PG, TQC+PG																										
up to 150% at 3.0Hz								up to 150% or above at 0.5Hz; under FOC+PG mode can reach up to 150% at 0Hz																										
0.1 - 599.0 Hz								Heavy Duty: 0.1 - 599 Hz; Super Heavy Duty: 0.1 - 599 Hz																										
—								digital command: ± 0.01%, -10°C ÷ +40°C, analogue command: ± 0.1%, 25 ±10°C																										
0.01Hz								digital command: 0.1Hz, analogue command: 0.03/60Hz (±11 bits)																										
150% of rated output current for 60 seconds								150% of rated output current: 1 minute for every 5 minutes or 180% of rated output current: 3 seconds for every 30 seconds (heavy duty default)																										
150% of rated current for 1 minute								150% of rated output current: 1 minute for every 5 minutes or 200% of rated output current: 3 seconds for every 30 seconds (super heavy duty)																										
Potentiometer 5 kΩ / 0.5 W, 0 to +10 VDC, 4 to 20 mA, RS-485 interface								+10V ÷ -10, 0 ÷ +10V, 4-20mA, pulse input																										
0.1 - 600 sec. (2 independent settings accel/decel time)								0.00 ÷ 600.00 / 0.0 ÷ 6000.0 seconds																										
Multiple motor switches (max. 4 independent motor parameter settings), fast run, deceleration energy back (DEB) function, wobble frequency function, fast deceleration function, master and auxiliary frequency source selectable, momentary power loss ride thru, speed search, over-torque detection, 16-step speed (max.), accel/decel time switch, S-curve accel/decel, 3-wire sequence, JOG frequency, upper/lower limits for frequency reference, DC injection braking at start and stop, PID control, built-in PLC (2k steps), simple positioning function, Modbus is integrated as standard								torque control, speed/torque control switching, feed forward control, zero-servo control, momentary power loss ride through, speed search, over-torque detection, torque limit, 16-step speed (including master speed), accel/decel time switch, S-curve accel/decel, 3 wire sequence, auto-tuning (rotational, stationary), dwell, slip compensation, torque compensation, skip frequency, frequency upper/lower limit settings, DC injection braking at start/stop, high slip braking, PID control (with sleep function), energy saving control, Modbus communication (RS-485 RJ45) max. 115.2kbps, fault restart and parameter copy.																										
fan control								ON/OFF switch				PWM control																						
over/under-volt/current, external fault, overload, IGBT short circuit, PTC								electronic thermal relay protection																										
yes								thermal current forces 240% of the over-current protection, current clamp: normal duty 170 - 175%; heavy duty: 180 - 185%																										
yes								drive will stop when DC-BUS voltage exceeds 820V																										
yes								built-in temperature sensor																										
stall prevention during acceleration, deceleration and running independently																																		
yes								parameter setting can be up to 20 seconds																										
yes								ground current protection level is 50% of rated current of the AC motor drive																										
no								built-in								optional																		
157	207	250	300	250	320	400	550	590	800	1000																							1435	
87	109	130	175	130	190	250	280	370	420	500																							700	
152	154	185	192	170	190	210	255		300	397																								398
1.24	2.07	3.97	6.25	2.6 ±0.3	5.4 ±1	9.8 ±1.5	27 ±1.5	38.5 ±1.5	64.8 ±1.5	86.5 ±1.5	134 ±4																							228
DeviceNet, Ethernet/IP, Profibus DP, Modbus TCP, CANopen, Ethercat communication cards, external 24 VDC power supply card, DIN-rail mount adaptor, cable for remote mounting of digital keypad								Digital keypad and panel mount adaptor, I/O extension cards, relay extension cards, PG encoder cards, EtherNet/IP - Modbus TCP -PROFIBUS-DP - DeviceNet - CANopen, Ethercat, Profinet communication cards																										



VFD1A6ME21AFNAA



VFD4A8ME21AFNAA



VFD4A8MS21AFSAA



VFD32AMS43AFSAA

ME300 / MS300 series - Vector control compact drive

ME300 / MS300 range of compact vector controlled drives offer standard essential built-in functionality including multi-pump control, built-in brake chopper, RS-485 (Modbus). For both IM and PM motors.

Common features include:

- Built-in PID feedback control
- Built-in EMI filter reduces electrical noise
- Easy to navigate keypad with LED display and potentiometer
- Pre-configured parameters for most commonly used applications
- High-efficiency cooling and compact design (*for side-by-side installation*)
- Multiple digital outputs MS300 (1x relay, 2x transistor) ME300 (1x relay, 1x transistor)
- Dual rating chart for ME / MS300 drives - normal and heavy duty applications
- Overload capabilities: 150% of rated output current for 60 sec, 200% for 3 seconds (*heavy duty*)
- Overcurrent, overvoltage, overload, over-temperature and phase failure protection incorporated
- Enhanced PCB coatings (**IEC 60721-3-3 class 3C2 standard**) ensures drive operation in harsh environments
- Default drive rating: Heavy duty

type	motor rating	rated current	description	frame size	dimensions (mm)		
					(H)	(W)	(D)

ME300 series - Basic ultra-compact AC motor drives - (VF/SVC open-loop control)

- High starting torque (*up to 150% rated starting torque at 3 Hz*)
- Supports side-by-side installation, with operating temp -20 to +40°C
- Supports high speed pulse and PWM (10kHz) frequency input signals
- Ultra compact frame sizes, up to 60% reduction compared to previous VFD-EL
- Front fascia 4 digit LED display, frequency adjustment knob and direction - run/stop function keys

Single-phase input 200-240V 50/60Hz (three-phase output voltage 230 VAC)

VFD1A6ME21AFNAA	200 W	1.6A	single-phase AC motor drive	B3	142	72	143
VFD2A8ME21AFNAA	400 W	2.8A	single-phase AC motor drive	B3	142	72	143
VFD4A8ME21AFNAA	750 W	4.8A	single-phase AC motor drive	B3	142	72	143
VFD7A5ME21AFNAA	1.5 kW	7.5A	single-phase AC motor drive	C2	157	87	163
VFD11AME21AFNAA	2.2 kW	11A	single-phase AC motor drive	C2	157	87	163

Three-phase input 380-480V 50/60Hz

VFD1A5ME43AFNAA	400 W	1.5A	three-phase AC motor drive	B3	142	72	143
VFD2A7ME43AFNAA	750 W	2.7A	three-phase AC motor drive	B3	142	72	143
VFD4A2ME43AFNAA	1.5 kW	4.2A	three-phase AC motor drive	B3	142	72	143
VFD5A5ME43AFNAA	2.2 kW	5.5A	three-phase AC motor drive	C2	157	87	163
VFD9A0ME43AFNAA	3.7 kW	9.0A	three-phase AC motor drive	C2	157	87	163
VFD13AME43AFNAA	5.5 kW	13A	three-phase AC motor drive	D2	207	109	171
VFD17AME43AFNAA	7.5 kW	17A	three-phase AC motor drive	D2	207	109	171

MS300 series - Standard compact AC motor drives (VF/SVC open-loop control)

Essential functions built-in as standard includes: PLC for simple programming needs, communication slots for various communication cards, support for both IM and PM motor controls, STO function ensuring worry-free operation and protection.

- Built-in PLC functionality (2K steps)
- Supports high speed pulse (33kHz) frequency input signal
- High starting torque (*up to 200% rated starting torque at 0.5 Hz*)
- Built-in slot for optional communication modules (*see accessories for ME/MS drives*)
- Integrated Safe Torque Off (STO) SIL2/PLd compliance, offers high safety machine stop
- USB port for simplicity of data uploads and downloads (*supports PC program via USB*)
- Removable 5 digit LED keypad with function keys and frequency adjustment knob

Single-phase input 200-240V 50/60Hz (three-phase output voltage 230 VAC)

VFD1A6MS21AFSAA	200 W	1.6A	single-phase AC motor drive	B3	142	72	159
VFD2A8MS21AFSAA	400 W	2.8A	single-phase AC motor drive	B3	142	72	159
VFD4A8MS21AFSAA	750 W	4.8A	single-phase AC motor drive	B3	142	72	159
VFD7A5MS21AFSAA	1.5 kW	7.5A	single-phase AC motor drive	C2	157	87	179
VFD11AMS21AFSAA	2.2 kW	11A	single-phase AC motor drive	C2	157	87	179

Three-phase input 380-480V 50/60Hz

VFD1A5MS43AFSAA	400 W	1.5A	three-phase AC motor drive	B3	142	72	159
VFD2A7MS43AFSAA	750 W	2.7A	three-phase AC motor drive	B3	142	72	159
VFD4A2MS43AFSAA	1.5 kW	4.2A	three-phase AC motor drive	B3	142	72	159
VFD5A5MS43AFSAA	2.2 kW	5.5A	three-phase AC motor drive	C2	157	87	179
VFD9A0MS43AFSAA	3.7 kW	9.0A	three-phase AC motor drive	C2	157	87	179
VFD13AMS43AFSAA	5.5 kW	13A	three-phase AC motor drive	D2	207	109	187
VFD17AMS43AFSAA	7.5 kW	17A	three-phase AC motor drive	D2	207	109	187
VFD25AMS43AFSAA	11 kW	25A	three-phase AC motor drive	E2	250	130	219
VFD32AMS43AFSAA	15 kW	32A	three-phase AC motor drive	E2	250	130	219
VFD38AMS43AFSAA	18.5 kW	38A	three-phase AC motor drive	F2	300	175	244
VFD45AMS43AFSAA	22 kW	45A	three-phase AC motor drive	F2	300	175	244

See page A-20 for ME/MS drives accessories



Conveyor



Fan



Machine Tool



Motors



SEMI F47



VFD2A8MS21MFSAA

MS300 + isolator
available on request

MKM-DRB



IFD6530



CMM-PN02



VFD037EL43A

MS300 series - Vector control compact drive

MS300 series provides essential built-in features, including multi-pump control, a brake chopper, and RS-485 (Modbus) communication for use with both induction and permanent magnet motors.

With an STO (SIL2) safety function, integrated PLC functionality, and dependable operation, it is suitable for food and beverage production and pumping applications.

- High starting torque (*up to 200% rated starting torque at 0.5 Hz*)
- Overload capabilities: 150% of rated output current for 60 seconds, 200% for 3 seconds
- Protection against humidity and dust in industrial environments
- Default drive rating: Heavy duty (*break resistor chart, see page A-25*)

type	motor rating	rated current	description	frame size	dimensions (mm)		
					(H)	(W)	(D)

MS300 series IP66 - AC motor drives*(VF/SVC open-loop control)*

IP66 / NEMA4X water-proof and dust-proof design enables stable operation under harsh environments.

Single-phase input 200-240V 50/60Hz (*three-phase output voltage 230 VAC*)

VFD2A8MS21MFSAA	400 W	2.8A	single-phase AC motor drive	A1	230	160	151
VFD4A8MS21MFSAA	750 W	4.8A	single-phase AC motor drive	A1	230	160	151
VFD7A5MS21MFSAA	1.5 kW	7.5A	single-phase AC motor drive	B	280	175	193
VFD11AMS21MFSAA	2.2 kW	11A	single-phase AC motor drive	B	280	175	193

Three-phase input 380-480V 50/60Hz

VFD2A7MS43MFSAA	750 W	2.7A	three-phase AC motor drive	A1	230	160	151
VFD4A2MS43MFSAA	1.5 kW	4.2A	three-phase AC motor drive	A2	230	160	167
VFD5A5MS43MFSAA	2.2 kW	5.5A	three-phase AC motor drive	B	280	175	193
VFD9A0MS43MFSAA	3.7 kW	9.0A	three-phase AC motor drive	B	280	175	193
VFD13AMS43MFSAA	5.5 kW	13A	three-phase AC motor drive	C	300	195	193
VFD17AMS43MFSAA	7.5 kW	17A	three-phase AC motor drive	C	300	195	193

Accessories for ME/MS300 series drives

MKM-DRB	DIN-rail	mounting kit for frame A and B					ME/MS300 drives
MKM-DRC	DIN-rail	mounting kit for frame C					ME/MS300 drives
KPC-CC01	keypad	(MS300 IP66) panel mount LCD					for MS300 drives
KPMS-LE01	keypad	removable LED keypad					for MS300 drives
MKM-HUB01	adaptor	daisy chain - RJ-45 to screw connector					ME/MS300 drives
EG1010C	cable	to remotely mount keypad	1 met				for MS300 drives
EG3010C	cable	to remotely mount keypad	3 met				for MS300 drives
UC-PRG030-02A	USB (B to A)	programming cable PC-VFD	3 met				for MS300 drives
IFD6530	RS-485 to USB	converter (<i>no ext. power supply required</i>)					

Fieldbus modules for MS series drives

CMM-EIP03	Ethernet/IP	Modbus TCP plug-in com. card	2 port		for MS300 drives
CMM-EC02	EtherCAT	plug-in communication card	2 port		for MS300 drives
CMM-PN02	Profinet	plug-in communication card	2 port		for MS300 drives
CMM-COP02	CANopen	plug-in communication card	2 port		for MS300 drives

Note: CBM-CCxxA required when using above communication card

Cables for above communication cards

				frame	Pos.
CBM-CL01A	cable for	CMM-DN/EIP/PD/COP	145 mm	A,B	1
		CMM-EC02		A	2
CBM-CL02A	cable for	CMM-DN/EIP/PD/COP	250 mm	C,D,E,F	1
		CMM-EC02		B,C,D	2
CBM-CC01A	cable for	CMM-DN/EIP/PD/COP	145 mm	A	2
CBM-CC02A	cable for	CMM-DN/EIP/PD/COP	250 mm	B,C,D	2

EL series - Multi-function micro AC motor drives (*open-loop control mode*)

- High-efficiency cooling and flexible space (*side-by-side installation*)
- Built-in PID feedback control and EMI filter (*Optional fieldbus models on request*)

Single-phase input 180-264V 50/60Hz (*three-phase output voltage*)

VFD002EL21A	200 W	1.6A	single-phase AC motor drive	A	142	72	136
VFD004EL21A	400 W	2.5A	single-phase AC motor drive	A	142	72	136
VFD007EL21A	750 W	4.2A	single-phase AC motor drive	A	142	72	136
VFD015EL21A	1.5 kW	7.5A	single-phase AC motor drive	B	174	100	136
VFD022EL21A	2.2 kW	11A	single-phase AC motor drive	B	174	100	136

Three-phase 380-480V 50/60Hz

VFD004EL43A	400 W	1.5A	three-phase AC motor drive	A	174	72	136
VFD007EL43A	750 W	2.5A	three-phase AC motor drive	A	174	72	136
VFD015EL43A	1.5 kW	4.2A	three-phase AC motor drive	A	174	72	136
VFD022EL43A	2.2 kW	5.5A	three-phase AC motor drive	B	174	100	136
VFD037EL43A	3.7 kW	8.2A	three-phase AC motor drive	B	174	100	136



Milling Machine



Cranes



Compressor



Motors



VFD150C4EA-21



VFD220C4EA-21

C2000+ series - High performance vector control drive

C2000+ series features precise speed, torque and position control, suitable for both sensor and sensorless types of synchronous and asynchronous motors. With a higher overload capacity the C2000+ provides the best performance and stability for a variety of heavy duty and constant torque applications in refrigeration, mining, cranes/hoists, crushers, compressors etc.

- Accepts various PG (*encoder*), I/O extension, relay extension and communication cards
- Integrated Safe Torque Off (STO) SIL2/PLd compliance, offers high safety machine stop
- Dual rating design - heavy duty / super heavy duty. Built-in PLC function (*10k steps capacity*)
- Overload capabilities: C2000+ 150% of rated output current for 1min, 180% for 3sec (*heavy duty*)
- Enhanced PCB coatings (*IEC 60721-3-3 class 3C3 standard*) ensures drive operation in harsh environments
- Built-in Modbus and CANopen (up to 30kW) high-speed communication interface (*optional cards for others*)
- For drives exceeding 30 kW, an external EMI filter, see page A-24

type	motor rating 400V	rated current	description	frame size	dimensions (mm)		
					(H)	(W)	(D)

C2000+ series - High performance vector control drive

Three-phase input 380-480V 50/60Hz

VFD007C4EA-21	0.75 kW	3.0A	three-phase AC motor drive	A	250	130	170
VFD015C4EA-21	1.5 kW	4.0A	three-phase AC motor drive	A	250	130	170
VFD022C4EA-21	2.2 kW	6.0A	three-phase AC motor drive	A	250	130	170
VFD040C4EA-21	4.0 kW	10.5A	three-phase AC motor drive	A	250	130	170
VFD055C4EA-21	5.5 kW	12A	three-phase AC motor drive	A	250	130	170
VFD075C4EA-21	7.5 kW	18A	three-phase AC motor drive	B	320	190	190
VFD110C4EA-21	11 kW	24A	three-phase AC motor drive	B	320	190	190
VFD150C4EA-21	15 kW	32A	three-phase AC motor drive	B	320	190	190
VFD185C4EA-21	18.5 kW	38A	three-phase AC motor drive	C	400	250	210
VFD220C4EA-21	22 kW	45A	three-phase AC motor drive	C	400	250	210
VFD300C4EA-21	30 kW	60A	three-phase AC motor drive	C	400	250	210
VFD370C43S-00	37 kW	73A	three-phase AC motor drive	D0-1	500	280	255
VFD450C43S-00	45 kW	91A	three-phase AC motor drive	D0-1	500	280	255
VFD550C43A-00	55 kW	110A	three-phase AC motor drive	D1	550	330	275
VFD750C43A-00	75 kW	150A	three-phase AC motor drive	D1	550	330	275
VFD900C43A-00	90 kW	180A	three-phase AC motor drive	E1	589	370	300
VFD1100C43A-00	110 kW	220A	three-phase AC motor drive	E1	589	370	300
VFD1320C43A-00	132 kW	260A	three-phase AC motor drive	F1	800	420	300
VFD1600C43A-00	160 kW	310A	three-phase AC motor drive	F1	800	420	300
VFD1850C43A-00	185 kW	370A	three-phase AC motor drive	G1	1000	500	397
VFD2000C43A-00	200 kW	395A	three-phase AC motor drive	G1	1000	500	397
VFD2500C43A-00	250 kW	481A	three-phase AC motor drive	G1	1000	500	397
VFD2800C43A-00	280 kW	550A	three-phase AC motor drive	H1	1435	700	398
VFD3150C43A-00	315 kW	616A	three-phase AC motor drive	H1	1435	700	398
VFD3550C43A-00	355 kW	683A	three-phase AC motor drive	H1	1435	700	398
VFD4000C43A-00	400 kW	770A	three-phase AC motor drive	H1	1435	700	398
VFD4500C43A-00	450 kW	866A	three-phase AC motor drive	H1	1435	700	398
VFD5000C43A-00	500 kW	930A	three-phase AC motor drive	H1	1435	700	398
VFD5600C43A-00	560 kW	1094A	three-phase AC motor drive	H1	1435	700	398

Frames A, B, C - built-in braking chopper, EMI filter and CANopen communication

Frames D,E,F,G,H - DC reactor built-in

C2000+ series - Features

Plus Overload capability



- Heavy Duty 150% 60 / 180% 3 sec.
- Super Heavy Duty 150% 60 / 200% 3 sec.



VFD450C43S-00

Power rating



Excellent Environment Adaptability





VP3000 series - Open-loop variable-torque standard drive

The Delta **VP3000** series provides new advanced features for a seamless and robust customer experience with predictive maintenance for key components, lower harmonics, reduced dimensions and a lower carbon footprint.

VP3000 is ideal for variable-torque applications such as blowers, pumps, HVAC, water treatment and supply systems. With built-in support for **BACnet**, the drives are easily integrated with Building Management Systems.

- Custom development platform: Built-in PLC with 20k steps
- Functional safety: Built-in Safe Torque Off (STO) SIL3
- Built-in EMC filter: In compliance with **(EN61800-3 C2, C3)**
- High-speed network: Supports various industrial comm. protocols
- Enhanced PCB coating: In compliance with **(IEC 60721-3-3 class 3C3)**
- Energy efficiency: IM, PM, and high-efficiency SynRM motor control modes
- Lower harmonics: EN 61000-3-12 standard harmonics reach min. 35% (from 22 kW)
- PdM: Monitors key component's service life for stable equipment operation
- Built-in USB-C port: Facilitates drive setting, updating, real-time monitoring and system tuning

type	motor rating	rated current	description	frame size	dimensions (mm)		
					(H)	(W)	(D)

VP3000 series - Open-loop variable-torque standard drive

Three-phase input 380-480V 50/60Hz

VFD4A2VP43BFTAA	1.5 kW	4.2A	three-phase AC motor drive	A2	300	110	147
VFD5A6VP43BFTAA	2.2 kW	5.6A	three-phase AC motor drive	A2	300	110	147
VFD011VP43BFTAA	4.0 kW	11A	three-phase AC motor drive	A2	300	110	147
VFD013VP43BFTAA	5.5 kW	13A	three-phase AC motor drive	B2	300	110	167
VFD018VP43BFTAA	7.5 kW	18A	three-phase AC motor drive	B2	300	110	167
VFD025VP43BFTAA	11.0 kW	25A	three-phase AC motor drive	C2	380	142	213
VFD032VP43BFTAA	15.0 kW	32A	three-phase AC motor drive	C2	380	142	213
VFD038VP43BFTAA	18.5 kW	38A	three-phase AC motor drive	C2	380	142	213
VFD045VP43BFTCA	22 kW	45A	three-phase AC motor drive	D2	460	175	221
VFD062VP43BFTCA	30 kW	62A	three-phase AC motor drive	D2	460	175	221
VFD073VP43BFTCA	37 kW	73A	three-phase AC motor drive	E2	489	190	226
VFD090VP43BFTCA	45 kW	90A	three-phase AC motor drive	E2	489	190	226
VFD110VP43BFTCA	55 kW	110A	three-phase AC motor drive	F2	595	190	255
VFD150VP43BFTCA	75 kW	150A	three-phase AC motor drive	G2	660	199	310
VFD180VP43BFTCA	90 kW	180A	three-phase AC motor drive	H2	710	262	310
VFD220VP43BFTCA	110 kW	220A	three-phase AC motor drive	H2	710	262	310
VFD260VP43BFTCA	132 kW	260A	three-phase AC motor drive	I2	783	260	341
VFD310VP43BFTCA	160 kW	310A	three-phase AC motor drive	I2	783	260	341
VFD370VP43BFTCA	185 kW	370A	three-phase AC motor drive	J2	937	346	410
VFD460VP43BFTCA	220 kW	460A	three-phase AC motor drive	K2	955	380	410
VFD530VP43SHTCA	280 kW	530A	three-phase AC motor drive	L2	1279	345	529
VFD616VP43SHTCA	315 kW	616A	three-phase AC motor drive	L2	1279	345	529
VFD683VP43SHTCA	355 kW	683A	three-phase AC motor drive	L2	1279	345	529
VFD770VP43SHTCA	400 kW	770A	three-phase AC motor drive	L2	1279	345	529
VFD866VP43SHTCA	450 kW	866A	three-phase AC motor drive	M2	1434	345	529
VFD930VP43SHTCA	500 kW	930A	three-phase AC motor drive	M2	1434	345	529
VFD1K1VP43SHTCA	560 kW	1100A	three-phase AC motor drive	M2	1434	345	529

Accessories for VP3000 drives

EMV-R6AA	relay	plug-in extension card for multi-function output selection	
EMV-A22A	analog	plug-in I/O extension card 0 - 10 V, 0 - 20mA/4 - 20mA	
EMV-D42A	I/O	plug-in I/O extension card	
EMC-COP01	CANopen	plug-in CANopen communication card	
CMC-EIP02	EtherNet	plug-in EtherNet/IP, Modbus TCP communication card	
CMC-PN01	PROFINET	plug-in PROFINET communication card	
UC-CMC010-01A	1 m	CANopen	CANopen cable (<i>RJ45 connector</i>)
UC-CMC020-01A	2 m	CANopen	CANopen cable (<i>RJ45 connector</i>)
UC-CMC030-01A	3 m	CANopen	CANopen cable (<i>RJ45 connector</i>)
UC-EMC010-02B	1 m	EtherNet	EtherNet cable (<i>shielded</i>)
UC-EMC020-02B	2 m	EtherNet	EtherNet cable (<i>shielded</i>)
UC-EMC050-02B	5 m	EtherNet	EtherNet cable (<i>shielded</i>)

VP3000 series - Key features

Reduce Carbon Emissions



High-efficiency motor and system

Lower Harmonics



Harmonics standard
IEC61000-3-12 (THDi<48%)

User Friendly



Easy installation and maintenance



VFD110VP43BFTCA



VFD110VP43BFTCA



VFD866VP43SHTCA





HVAC



Fan



Pump



Motors

CP2000 series - Fan and Pump purpose drives

CP2000 series AC motor drive for energy-saving HVAC systems and for pump and fan applications.

Equipped with special HVAC parameters and PID control functions for efficient operation, multi-segment V/F control curve and soft start functions to assist frequent torque change and constant output applications with energy-saving performance.

General features:

- Built-in PLC (10K steps) programming capacity with real-time-clock and calendar
- Built-in RS-485 (Modbus) and BACnet MS/TP (*expandable with optional extension cards*)
- Multi-pump control of up to 8 motors provide fixed amount and fixed time circulation control
- Flying start and auto restart after momentary power loss functions, suitable for fan application
- Enhanced PCB coatings (**IEC 60721-3-3 class 3C2 standard**) ensures drive operation in harsh environments
- Default rated current: Light duty (*break resistor chart, see page A-25*)
- Dual rating chart for CP/CFP2000 drives - normal and heavy-duty applications (*see page A-25*)
- For drives exceeding 37 kW, an external EMI filter, see page A-24



VFD150CP4EB-21



VFD450CP43S-21

type	motor rating	rated current	description	frame size	dimensions (mm)		
					(H)	(W)	(D)

CP2000 series - Fan/Pump vector control drives**Three-phase input 380-480V 50/60 Hz**

VFD015CP4EB-21	1.5 kW	4.2A	three-phase AC motor drive	A	250	130	170
VFD022CP4EB-21	2.2 kW	5.5A	three-phase AC motor drive	A	250	130	170
VFD040CP4EA-21	4.0 kW	10.5A	three-phase AC motor drive	A	250	130	170
VFD055CP4EB-21	5.5 kW	13A	three-phase AC motor drive	A	250	130	170
VFD075CP4EB-21	7.5 kW	18A	three-phase AC motor drive	A	250	130	170
VFD110CP4EB-21	11 kW	24A	three-phase AC motor drive	B	320	190	190
VFD150CP4EB-21	15 kW	32A	three-phase AC motor drive	B	320	190	190
VFD185CP4EB-21	18.5 kW	38A	three-phase AC motor drive	B	320	190	190
VFD220CP4EA-21	22 kW	45A	three-phase AC motor drive	C	400	250	210
VFD300CP4EB-21	30 kW	60A	three-phase AC motor drive	C	400	250	210
VFD370CP4EB-21	37 kW	73A	three-phase AC motor drive	C	400	250	210
VFD450CP43S-21	45 kW	91A	three-phase AC motor drive	D0	500	280	255
VFD550CP43S-21	55 kW	110A	three-phase AC motor drive	D0	500	280	255
VFD750CP43B-21	75 kW	150A	three-phase AC motor drive	D	550	330	275
VFD900CP43A-21	90 kW	180A	three-phase AC motor drive	D	550	330	275
VFD1100CP43A-21	110 kW	220A	three-phase AC motor drive	E	589	370	300
VFD1320CP43B-21	132 kW	260A	three-phase AC motor drive	E	589	370	300
VFD1600CP43A-21	160 kW	310A	three-phase AC motor drive	F	800	420	300
VFD1850CP43B-21	185 kW	370A	three-phase AC motor drive	F	800	420	300
VFD2200CP43A-21	220 kW	460A	three-phase AC motor drive	G1	1000	500	397
VFD2800CP43A-21	280 kW	530A	three-phase AC motor drive	G1	1000	500	397
VFD3150CP43A-00	315 kW	616A	three-phase AC motor drive	H1	1435	700	398
VFD3550CP43A-00	355 kW	683A	three-phase AC motor drive	H1	1435	700	398
VFD4000CP43A-00	400 kW	770A	three-phase AC motor drive	H1	1435	700	398
VFD5000CP43A-00	500 kW	930A	three-phase AC motor drive	H1	1435	700	398

Frames A, B, C - built-in braking chopper, EMI filter. Frames D,E,F,G,H - DC reactor built-in

Flange mount kits for rear projecting heat sinks for improved ventilation (*see accessories page*)

Larger sizes up to 630kW available on request

CFP2000 series - Drives for Fans and Pumps**IP55**

CFP2000 series designed with an industry leading IP55 enclosure providing protection from dust and water. It includes many outstanding features and built-in functionality, reducing setup and tuning time while providing higher efficiency.

- Built-in EMI filter (*meets EN61800-3*)
- Built-in DC choke (*meets EN6100-3-12*)
- Built-in Safe Torque Off (STO) SIL2 function and 2 sets of PID controller functions
- Enhanced PCB coating to (**IEC 60721-3-3 class 3C3**) ensures reliability in harsh environments

Three-phase input 380-480V 50/60 Hz

VFD015FP4EA-52	1.5 kW	4.2A	three-phase AC motor drive	A-1	366	161	199
VFD022FP4EA-52	2.2 kW	5.5A	three-phase AC motor drive	A-1	366	161	199
VFD040FP4EA-52	4.0 kW	10.5A	three-phase AC motor drive	A-1	366	161	199
VFD055FP4EA-52	5.5 kW	13A	three-phase AC motor drive	A-1	366	161	199
VFD075FP4EA-52	7.5 kW	18A	three-phase AC motor drive	A-1	366	161	199
VFD110FP4EA-52	11 kW	24A	three-phase AC motor drive	B-1	491	216	229
VFD150FP4EA-52	15 kW	32A	three-phase AC motor drive	B-1	491	216	229
VFD185FP4EA-52	18.5 kW	38A	three-phase AC motor drive	B-1	491	216	229
VFD220FP4EA-52	22 kW	45A	three-phase AC motor drive	B-1	491	216	229
VFD300FP4EA-52	30 kW	60A	three-phase AC motor drive	C-1	630	282	265
VFD370FP4EA-52	37 kW	73A	three-phase AC motor drive	C-1	630	282	265
VFD450FP4EA-52	45 kW	91A	three-phase AC motor drive	D0-1	680	308	307
VFD550FP4EA-52	55 kW	110A	three-phase AC motor drive	D0-1	680	308	307
VFD750FP4EA-52	75 kW	150A	three-phase AC motor drive	D-1	770	370	335
VFD900FP4EA-52	90 kW	180A	three-phase AC motor drive	D-1	770	370	335

Frames A-1, B-1, C-1 - built-in braking chopper



VFD450FP4EA-52



IFD6530



MKC-DN1CB



CMC-EIP02



FIN538S1.075.M

Accessories for C2000+, CP/CFP2000 series drives

Delta's AC Motor Drive product line provides a full range of motor control technologies and accessories that can be used throughout a wide range of industries to enhance and improve machine automation.

type	device	description	
Hardware accessories			
KPC-CC01	keypad	with LCD, parameters backup function	C series drives
MKC-KPPK	bracket	remote panel adapter for KPC-CC01 (IP66)	C series drives
EMC-D42A	DC 24V	digital I/O extension card, selectable NPN/PNP	4DI / 2DO
EMC-A22A	analog	I/O extension card, selectable 0-10V/4-20mA	2AI / 2AO
EMC-R6AA	card	multi-function relay output extension card	6 relay
IFD6530	converter/program	USB to RS-485 - KPC-CC01 and C series drives	

Mounting accessories

Flange mount kits to permit the chassis mounting of drives with the heat-sink section protruding from the rear of the enclosure for improved cooling/heat dissipation of drives.

MKC-AFM	flange	mount kit for rear exposure of heat sink	for drive frame A
MKC-BFM	flange	mount kit for rear exposure of heat sink	for drive frame B
MKC-CFM	flange	mount kit for rear exposure of heat sink	for drive frame C

Base mounting flange can be moved to central position to expose heat sinks for frames D, E, F.

Conduit boxes - Wall mount IP00 - IP21

MKC-DN1CB	frame D	Conduit box kit for frame D1 (not D01)
MKC-EN1CB	frame E	Conduit box kit for frame E1
MKC-FN1CB	frame F	Conduit box kit for frame F1

PG cards for C2000 drives

type	output voltage	PG 1-300kHz motor encoder	PG 2-300kHz optional pulse command	PG out re-transmission 1-255 ratio
EMC-PG01L	5 or 12 VDC	Line drive / Open collector	Line drive / Open collector	Line driver
EMC-PG01O	5 or 12 VDC	Line drive / Open collector	Line drive / Open collector	Open collector
EMC-PG01U	5 or 12 VDC	Line drive with commutation	Line drive / Open collector	Line driver

Fieldbus modules for drives (plugs into drive)

type	comms	description		rate
CMC-EIP02	EtherNet/IP	supports, Modbus TCP protocols	2 port	10/100 Mbps
CMC-PD01	Profibus-DP	plug-in communication card		9.6kbps - 12Mbps
EMC-COP01	CANopen	plug-in communication card		50kbps - 1Mbps
CMC-EC01	EtherCAT	plug-in 2 port comm. card		100 Mbps
CMC-PN01	Profinet	plug-in 2 port comm. card		10/100 Mbps Auto-Detect

Cables for above communication cards

UC-CMC010-01A	CANopen	standard fieldbus cable, RJ45 connector	1 meter
UC-CMC020-01A	CANopen	standard fieldbus cable, RJ45 connector	2 meter
UC-CMC030-01A	CANopen	standard fieldbus cable, RJ45 connector	3 meter
UC-EMC010-02B	Ethernet	shielded Ethernet cable	1 meter
UC-EMC050-02B	Ethernet	shielded Ethernet cable	5 meter

EMI Filtering for Delta Drives

FIN538S1 series EMC filters are specifically designed to reduce EMI in compliance with IEC 61800-3, making them ideal for Delta CP2000, CFP2000, and C2000+ series drives.

- Compliance with Australian EMC regulations (AS/NZS CISPR 11 & 22)

type	rated amps	max output cable CE	emissions conducted	emissions radiated	carrier freq	dimensions (mm)		
						(H)	(W)	(D)

- Connection: **M**: Terminal block (up to 180A) - **V**: Screw connection - **BC**: Busbar connection
- Overload: 4 x Rated current (Switch ON) / 2 x In 10 seconds / 1.5 In for 10 minutes
- Approvals: UL 1283; CSA C22.2 No.8 - complies with IEC 60939

Category C2/C3 - 400V three-phase (600VAC)

FIN538S1.075.M	75A	150m	C3	C3	<6kHz	135	85	270
FIN538S1.100.M	100A	150m	C3	C3	<4kHz	155	90	270
FIN538S1.130.M	130A	150m	C3	C3	<4kHz	155	90	270
FIN538S1.180.M	180A	150m	C3	C3	<4kHz	170	125	380
FIN538S1.250.V	250A	150m	C3	C3	<4kHz	90	220	356
FIN538S1.280.V	280A	100m	C3	C3	<4kHz	90	220	356
FIN538S1.500.BC	500A	100m	C3	C3	<4kHz	150	230	420
FIN538S1.750.BC	750A	100m	C3	C3	<4kHz	150	230	420

Larger sizes on request

Drive FRAME	Resistor connection per brake unit	Resistor	ME 300	MS 300	C2000+	Breaking Unit(s)	Total qty resistors
230V 1ph drives - 125% Braking torque/ 10 % ED							
200 W	Single	BR080W750	Yes	Yes		Built in	1
400 W	Single	BR080W200	Yes	Yes		Built in	1
750 W	Single	BR080W200	Yes	Yes		Built in	1
1.5 kW	Single		Yes	Yes		Built in	1
2.2 kW	Single	BR300W070	Yes	Yes		Built in	1
3.7 kW	2 in parallel	BR300W070				Built in	2
400V 3ph drives - 125% Braking torque/ 10 % ED							
400 W	Single	BR080W750	Yes	Yes		Built in	1
750 W	Single	BR080W750	Yes	Yes	Yes	Built in	1
1.5 kW	Single	BR200W360	Yes	Yes	Yes	Built in	1
2.2 kW	Single	BR300W250	Yes	Yes	Yes	Built in	1
4 kW	2 in parallel	BR300W250	Yes	Yes	Yes	Built in	1
5.5 kW	Single	BR1K0W075	Yes	Yes	Yes	Built in	1
7.5 kW	Single	BR1K0W075	Yes	Yes	Yes	Built in	1
11 kW	Single	BR1K5W043		Yes	Yes	Built in	1
15 kW	Single	BR1K0W016 * 2		Yes	Yes	Built in	1
18.5 kW	Single	BR1K0W016 * 2		Yes	Yes	Built in	1
22 kW	Single	BR1K5W013 * 2		Yes	Yes	Built in	1
30 kW	Single	BR1K2W015 * 4			Yes	Built in	
37 kW	Single	BR1K2W015 * 4			Yes		1
45 kW	Single	BR1K5W013 * 4			Yes		1
55 kW	Single				Yes		2
75 kW	Single	BR1K2W015 * 4			Yes		2
90 kW	Single	BR1K5W013 * 2			Yes		2
110 kW	2 in parallel				Yes		2
132 kW	4 in parallel				Yes		4
160 kW	4 in parallel				Yes		4
185 kW	4 in parallel				Yes		4
200 kW	2 in parallel				Yes		4
220 kW	2 in parallel				Yes		4
250 kW	4 in parallel				Yes		8
280 kW	4 in parallel				Yes		8
315 kW	4 in parallel				Yes		8
355 kW	4 in parallel				Yes		8
400 kW	3 in parallel				Yes		9
450 kW	3 in parallel				Yes		9
500 kW	4 in parallel				Yes		12
560 kW	3 in parallel				Yes		12

Braking resistor - selection criteria

Selection of braking resistor must respect 3 criteria:

1. Resistance of braking resistor must be equal or greater than minimal allowed resistance R_{min}. This value is available in the above table and in the Delta user manual
2. Power of the braking resistor must be adequate to load and load cycle. Having more wattage allows for a larger ED(%). Delta recommends 3 x the recommended wattage for continuous braking.
3. Resistance of braking resistor must be equal or less than maximal resistance R_{max}: use the following calculation to determine maximum resistance (Ohms = (DC bus volts)² / (Peak power of VFD)

Parallel connection



Series connection



Drive rating chart C2000+

Drive series	(Default) Heavy Duty		Super Heavy Duty	
	150% (60sec) / 180% (3 sec)		150% (60sec) / 200% (3 sec)	
	kW	Rated Amps	kW	Rated Amps
VFD007C4EA-21*	0.75	3	0.4	1.7
VFD015C4EA-21*	1.5	4	0.75	3
VFD022C4EA-21*	2.2	6	1.5	4
VFD040C4EA-21*	4	10.5	3.7	9
VFD055C4EA-21*	5.5	12	4	10.5
VFD075C4EA-21*	7.5	18	5.5	12
VFD110C4EA-21*	11	24	7.5	18
VFD150C4EA-21*	15	32	11	24
VFD185C4EA-21*	18.5	38	15	32
VFD220C4EA-21*	22	45	18.5	38
VFD300C4EA-21*	30	60	22	45
VFD370C43S-00	37	73	30	60
VFD450C43S-00	45	91	37	73
VFD550C43A-00	55	110	45	91
VFD750C43A-00	75	150	55	110
VFD900C43A-00	90	180	75	150
VFD1100C43A-00	110	220	90	180
VFD1320C43A-00	132	260	110	220
VFD1600C43A-00	160	310	132	260
VFD1850C43A-00	185	370	160	310
VFD2000C43A-00	200	395	160	310
VFD2200C43A-00	220	460	185	370
VFD2500C43A-00	250	481	200	395
VFD2800C43A-00	280	550	220	460
VFD3150C43A-00	315	616	280	550
VFD3550C43A-00	355	683	315	616
VFD4000C43A-00	400	770	355	683
VFD4500C43A-00	450	866	355	683
VFD5000C43A-00	500	930	450	866
VFD5600C43A-00	560	1094	500	930

Drive rating chart CP2000 / CFP2000

Drive series	(Default) Light Duty		Normal Duty	
	120% (1min)		120% (1min) / 160% (3 sec)	
	kW	Rated Amps	kW	Rated Amps
VFD015CP/FP	1.5	4.2	0.75	3
VFD022CP/FP	2.2	5.5	1.5	4
VFD040CP/FP	4	10.5	3.7	9
VFD055CP/FP	5.5	13	4	10.5
VFD075CP/FP	7.5	18	5.5	12
VFD110CP/FP	11	24	7.5	18
VFD150CP/FP	15	32	11	24
VFD185CP/FP	18.5	38	15	32
VFD220CP/FP	22	45	18.5	38
VFD300CP/FP	30	60	22	45
VFD370CP/FP	37	73	30	60
VFD450CP/FP	45	91	37	73
VFD550CP/FP	55	110	45	91
VFD750CP/FP	75	150	55	110
VFD900CP/FP	90	180	75	150
VFD1100CP/FP	110	220	90	180
VFD1320CP/FP	132	260	110	220
VFD1600CP/FP	160	310	132	260
VFD1850CP/FP	185	370	160	310
VFD2200CP/FP	220	460	185	370
VFD2800CP/FP	280	530	220	460
VFD3150CP/FP	315	616	280	550
VFD3550CP/FP	355	683	315	616
VFD4000CP/FP	400	770	355	683

Drive dual rating chart ME300 / MS300

Dual rating allows drives to be used across a range of applications according to overload capacity required, for example:

Light Duty / Normal Duty - Fan and pump application
Heavy Duty - Compressor, crusher, spindle and conveyor

Drive series	(Default) Heavy Duty		Normal Duty	
	150% (60sec) / 200% (3sec)		120% (60sec) / 150% (3sec)	
	kW	Rated Amps	kW	Rated Amps
VFD1A6MS21AFSAA	0.2	1.6	0.3	1.8
VFD2A8MS21AFSAA	0.4	2.8	0.55	3.2
VFD4A8MS21AFSAA	0.75	4.8	0.9	5
VFD7A5MS21AFSAA	1.5	7.5	1.8	8.5
VFD11AMS21AFSAA	2.2	11	3	12.5
VFD1A5MS43AFSAA	0.4	1.5	0.55	1.8
VFD2A7MS43AFSAA	0.75	2.7	1.1	3
VFD4A2MS43AFSAA	1.5	4.2	1.6	4.6
VFD5A5MS43AFSAA	2.2	5.5	2.8	6.5
VFD9A0MS43AFSAA	4	9	4.5	10.5
VFD13AMS43AFSAA	5.5	13	6	15.7
VFD17AMS43AFSAA	7.5	17	8.5	20.5
VFD25AMS43AFSAA	11	25	12	28
VFD32AMS43AFSAA	15	32	17	36
VFD38AMS43AFSAA	18.5	38	20	41.5
VFD45AMS43AFSAA	22	45	24	49

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