



VFD150CP4EB-21



VFD220CP4EA-21



VFD450CP43S-21

CP2000 series - Fan and Pump purpose drives

CP2000 series drives for energy-saving HVAC systems, Fan and Pump applications. Pre-configured with dedicated HVAC parameters, intelligent PID control, Sensorless Vector Control (SVC) and auto-tuning functions improve motor performance in variable torque load applications. Multi-segment V/F control curve and soft start functions improve efficiency with real-time adjustment of output voltage under variable torque load environments.

- Built-in PLC 10K steps programming capacity with real-time-clock and calendar
- Skip frequency function (*avoids motor vibration at specific frequency bandwidths*)
- Built-in RS-485 (MODBUS) and BACnet MS/TP, expandable with 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
- Quick setup mode with pre-configured user defined parameter management, simplify installation
- Energy saving control functions include PID control, sleep/wakeup mode and auto-energy saving mode
- Enhanced PCB coatings (IEC 60721-3-3 class 3C2 standard) ensures drive operation in harsh environments

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

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

VFD015CP4EB-21*	1.5kW	three phase AC motor drive	A	250	130	170
VFD022CP4EB-21*	2.2kW	three phase AC motor drive	A	250	130	170
VFD040CP4EA-21*	4.0kW	three phase AC motor drive	A	250	130	170
VFD055CP4EB-21*	5.5kW	three phase AC motor drive	A	250	130	170
VFD075CP4EB-21*	7.5kW	three phase AC motor drive	A	250	130	170
VFD110CP4EB-21*	11.0kW	three phase AC motor drive	B	320	190	190
VFD150CP4EB-21*	15.0kW	three phase AC motor drive	B	320	190	190
VFD185CP4EB-21*	18.5kW	three phase AC motor drive	B	320	190	190
VFD220CP4EA-21*	22.0kW	three phase AC motor drive	C	400	250	210
VFD300CP4EB-21*	30.0kW	three phase AC motor drive	C	400	250	210
VFD370CP4EB-21*	37.0kW	three phase AC motor drive	C	400	250	210
VFD450CP43S-21	45.0kW	three phase AC motor drive	D0	500	280	255
VFD550CP43S-21	55.0kW	three phase AC motor drive	D0	500	280	255
VFD750CP43B-21	75.0kW	three phase AC motor drive	D	550	330	275
VFD900CP43A-21	90.0kW	three phase AC motor drive	D	550	330	275
VFD1100CP43A-21	110.0kW	three phase AC motor drive	E	589	370	300
VFD1320CP43B-21	132.0kW	three phase AC motor drive	E	589	370	300
VFD1600CP43A-21	160.0kW	three phase AC motor drive	F	800	420	300
VFD1850CP43B-21	185.0kW	three phase AC motor drive	F	800	420	300
VFD2200CP43A-21	220.0kW	three phase AC motor drive	G	1000	500	397
VFD2800CP43A-21	280.0kW	three phase AC motor drive	G	1000	500	397

* Built-in EMC filter and braking chopper frame A, B, C up to 37kW, Larger sizes DC choke built-in

Accessories for C2000 and CP2000 series drives

KPC-CC01	keypad	with LCD display, parameters backup function	C/CP2000
MKC-KPPK	bracket	remote panel adapter, (IP66)	C/CP2000
EMC-D42A	4DI / 2DO	digital I/O extension card, selectable NPN/PNP, DC 24V	
EMC-A22A	2AI / 2AO	analog I/O extension card, selectable 0-10V/4-20mA	
EMC-R6AA	6 relay	relay output extension card	

Fieldbus modules for C2000 and CP2000 series drives (plugs into drive)

CMC-EIP01	Ethernet	plug-in communication card	supports EtherNet/IP
CMC-DN01	DeviceNet	plug-in communication card	125kbp / 250kbp / 500kbp
CMC-PD01	Profibus-DP	plug-in communication card	9.6kbp - 12Mbps
EMC-COP01	CANopen	plug-in communication card	50kbp - 1Mbps
CMC-EC01	EtherCAT	plug-in communication card	10/100 Mbps Auto-Defect

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

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