

Commander C200 AC Drives

Enhance throughput with machine safety, communications, and built-in PLC



Commander C200 Frame Size 3

The Commander C200 delivers benchmark functionality at no added cost to the base drive itself. Plug-in options, dynamic performance, PLC functionality and other advanced features such as fieldbus, Ethernet, and Modbus RTU communications ensure that in more complex applications Commander C200 can deliver more than the average general purpose drive - giving you lower cost solutions and better productivity in your motor control applications.

Enhance up-time and system flexibility

- Flexible system integration and remote diagnostics through optional industrial Ethernet and fieldbus communication
- Flexible I/O expandable with SI-I/O option module
- Enhanced functionality and onboard PLC programming provides a low-cost system solution, minimizing the need for additional equipment such as PLCs

High performance open-loop motor control

- RFC-A (Rotor Flux Control) algorithm for exceptional induction motor control of demanding applications
- Closed loop current control without a position feedback device
- Speed control for conveyors, fans, pumps, and mixers, where their function is controlled remotely with fieldbus or Ethernet communications

Key data

Heavy Duty Ratings: 0.33 hp to 150 hp (0.25 kW to 110 kW)

Normal Duty Ratings: 0.33 hp to 200 hp (0.25 kW to 132 kW)

Supply phases: Frame size 1 and 2: 110 V drives 1Ø, 230 V drives 1Ø or 3Ø; Frame size 7 and larger 3Ø; 460 V drives 3Ø

Control connections: 2x Analog inputs, 4x Digital inputs, 1x Analog output, 1x Digital I/O, 1x Relay

Drive rating: IP21 / UL open class as standard

Keypad: Fixed LED

Option slots: 1 (frame size 2 and above)

Parameter cloning via: PC tools, SD card

Voltage ratings	
100 / 120 VAC ± 10%	✓
200 / 240 VAC ± 10%	✓
380 / 480 VAC ± 10%	✓
Control mode	
Open loop vector or V/Hz induction motor control	✓
Open loop Rotor Flux Control for induction motors (RFC-A)	✓

How to select a drive (Consult online catalog for complete drive information)

1. Electrical Considerations

- What is the supply voltage?
- Single or 3Ø input power?
- What is the motor rating?
 - Continuous current – FLA (Full Load Amps)
 - Select the drive based on motor Amps rather than horsepower

2. Load Type (choose one)

- Normal Duty: Peak current is 110% of drive rating (fans, pumps, etc.)
- Heavy Duty: Peak current is 180% (mixers, conveyors, etc.)

3. Drive Mechanical Mounting

- Panel mounting – as standard
- Wall mounting – UL conduit kits are available
- Through panel mounting – frames 5 and up

Visit www.Drive-Setup.com for step by step guides, videos, software, product support documentation & 5 year warranty registration.



Order Information & Ratings

115 VAC, Single Phase 50/60 Hz Input, 230 VAC 3-Phase Output					
Commander C200 Order Code*	Input Phase	Normal Duty		Heavy Duty	
		HP	Amps	HP	Amps
C200-01100017A	1	0.33	1.7	0.33	1.7
C200-01100024A	1	0.5	2.4	0.5	2.4
C200-02100042A	1	1	4.2	1	4.2
C200-02100056A	1	1.5	5.6	1.5	5.6
230 VAC, Single & 3-Phase Input, 3-Phase Output, 50/60 Hz Input					
C200-01200017A	1	0.33	1.7	0.33	1.7
C200-01200024A	1	0.5	2.4	0.5	2.4
C200-01200033A	1	0.75	3.3	0.75	3.3
C200-01200042A	1	1	4.2	1	4.2
C200-02200024A	1, 3	0.5	2.4	0.5	2.4
C200-02200033A	1, 3	0.75	3.3	0.75	3.3
C200-02200042A	1, 3	1	4.2	1	4.2
C200-02200056A	1, 3	1.5	5.6	1.5	5.6
C200-02200075A	1, 3	2	7.5	2	7.5
C200-02200100A	1, 3	3	10	3	10
C200-04200133A	1, 3	3	13.3	3	13.3
C200-04200176A	3	5	17.6	5	17.6
C200-05200250A	3	10	30	7.5	25
C200-06200330A	3	15	50	10	33
C200-06200440A	3	20	58	15	44
C200-07200610A	3	25	75	20	61
C200-07200750A	3	30	94	25	75
C200-07200830A	3	40	117	30	83
C200-08201160A	3	50	149	40	116
C200-08201320A	3	60	180	50	132
C200-09201760x**	3	75	216	60	176
C200-09202190x**	3	100	266	75	219
460 VAC, Three Phase Input, 3-Phase Output, 50/60 Hz Input					
C200-02400013A	3	0.5	1.3	0.5	1.3
C200-02400018A	3	0.75	1.8	0.75	1.8
C200-02400023A	3	1	2.3	1	2.3
C200-02400032A	3	1.5	3.2	1.5	3.2
C200-02400041A	3	2	4.1	2	4.1
C200-03400056A	3	3	5.6	3	5.6
C200-03400073A	3	3	7.3	3	7.3
C200-03400094A	3	5	9.4	5	9.4
C200-04400135A	3	7.5	13.5	7.5	13.5
C200-04400170A	3	10	17	10	17
C200-05400270A	3	20	30	20	27
C200-05400300A	3	20	30	20	30
C200-06400350A	3	25	38	25	35
C200-06400420A	3	30	48	30	42
C200-06400470A	3	50	63	30	47
C200-07400660A	3	60	79	50	66
C200-07400770A	3	75	94	60	77
C200-07401000A	3	75	112	75	100
C200-08401340A	3	125	155	100	134
C200-08401570A	3	150	184	125	157
C200-09402000x**	3	150	221	150	180
C200-09402240x**	3	200	255	150	211

*Add 10101AB100 to the base order code when ordering standard US (60Hz) default products
 **x= A or E (9E frame requires an external AC Line Reactor)

Order String - Frame Size Key
Example: C200-XX_-----
XX = Frame Size (01-09 above)

Dimensions & Weights

Frame Size	Dimensions H x W x D (in)	Weight (lbs)
01	6.3 x 3.0 x 5.1	1.7
02	8.1 x 3.1 x 5.9	2.2
03	8.9 x 3.5 x 6.3	3.3
04	10.9 x 4.5 x 6.9	6.9
05	15.4 x 5.6 x 7.9	16.3
06	15.4 x 8.3 x 9.0	30.9
07	21.9 x 10.6 x 11.0	61.7
08	31.7 x 12.2 x 11.4	114.6
09E	39.8 x 12.2 x 11.4	101.4
09A	43.6 x 12.2 x 11.4	146.6

Additional distance should be added to the height dimension (H) when the AI options are fitted.



OPTIONS AT-A-GLANCE

Option	Description	Order Code
Drive Configuration & Programming	Configuration software	CONNECT
	Drive to PC USB cable (requires a 485 adaptor)	CT-USB-CABLE
	Parameter cloning 4 GB (includes 4 GB SD card)	AI-SMART-ADAPTOR
	Parameter cloning (requires an SD card)	AI-BACKUP-ADAPTOR
Operator Interfaces	8 GB SD card	CTSD8GB
	Remote LCD display	REMOTE-KEYPAD
	Remote LCD display with real-time clock	REMOTE-KEYPAD-RTC
	Remote display cable	UM-LCD-485-XXX****
Input / Output***	Extended I/O	SI-I/O
Communications***	Modbus RTU	AI-485-ADAPTOR
	Modbus RTU with 24 V	AI-485-24V-ADAPTOR
	PROFIBUS DP	SI-PROFIBUS
	DeviceNet	SI-DEVICENET
	CANopen	SI-CANOPEN
	PROFINET RT	SI-PROFINET-V2
	EtherCAT	SI-ETHERCAT
	EtherNet/IP, Modbus TCP	SI-ETHERNET
Application Programming Software & Diagnostics	PLC programming	MACHINE-CONTROL-STUDIO
	Digital oscilloscope	CTSCOPE
Power Accessories	External EMC filter	See the General Purpose AC Drives brochure
	Line & load reactors	
	Dynamic braking resistors	
Environmental Protection & Cable Management	UL Type 1 conduit kits	See the General Purpose AC Drives brochure
	Retrofit for Commander SK	
	Fan replacement kits	

***frame sizes 2 and up accept 1 SI option
 ****Shielded RS485 patch cable, CAT5e, conductive metal RJ45 connectors, XXX=cable length in 5 foot increments (max 330 ft), standard lengths are (005, 010, 015, 025 and 050)

Diagnostic Software

Our **Drive Diagnostics APP** allows users to quickly diagnose faults. In the unlikely event that you get a drive error, download our complimentary Diagnostics Tool app. Just input the error code on your device and you'll be given a solution.



Download our Diagnostics Tool App at:
www.ctdrives.com/diagnostics



Terms & Conditions apply