

COMMANDER C



SIMPLE, RELIABLE MOTOR CONTROL
0.25kW - 132kW (0.33 hp to 200hp)
100V | 200V | 400V | 575V | 690V

Commander C Highlights

- Set just 4 parameters to get your drive started
- Plug-in options for advanced control
- Dual Safe Torque Off (STO)
- Up to 180% overload for high torque applications
- On board PLC
- Straight forward installation and commissioning
- Easy motor pairing and performance control
- Robust and reliable design

COMMANDER C DRIVE SPECIFICATIONS

Power & Control

| | |
|---------------------------------|---|
| Supply Requirements | 100 V drive: 100 V to 120 V ±10 % 200 V drive: 200 V to 240 V ±10 % 400 V drive: 380 V to 480 V ±10 % 575 V drive: 500 V to 575 V ±10 % 690 V drive: 500 V to 690 V ±10 % Maximum supply imbalance: 2 % negative phase sequence (equivalent to 3 % voltage imbalance between phases) |
| Input Displacement Power Factor | 0.97 |
| Phase | 1 and 3 (model dependent) |
| Power Range | 0.25 to 132 kW / 0.33 to 200 hp |
| Input Frequency Range | 45 to 66 Hz |
| Output Frequency/Speed Range | 0 to 550 Hz |
| Switching Frequency | Size 1 - 4: 0.667, 1, 2, 3, 4, 6, 8, 12 & 16 kHz Size 5 - 9: 2, 3, 4, 6, 8, 12 & 16 kHz (Factory default = 3kHz) |
| Heavy Duty Overload Capability | 150 % for 60 s (open loop mode), 180 % for 3 s (RFC-A mode) |
| Operating Modes | Linear V to F Square V to F Dynamic V to F Set Point V to F Stator Resistance Compensation RFC-A (enhanced open-loop performance) |
| Stopping Modes | Coast, Ramp, Ramp & DC Injection Braking, DC Injection Braking with 0 Hz detect, Timed DC Injection Braking Built-in braking transistor, external resistor required |

Communication & Interfaces

| | |
|--|---|
| Communications | Modbus RTU, EtherCAT, PROFIBUS, Ethernet, DeviceNET, CANopen, PROFINET, POWERLINK (all available with AI/SI-options) |
| Keypads | Fixed LED keypad Remote IP66 Keypad (available as an accessory) Remote IP66 RTC Keypad (available as an accessory) HMI (available as an accessory) |
| User Software Tools (Free To Download) | Connect (PC commissioning & cloning tool) Machine Control Studio for on-board PLC programming |

Inputs & Outputs

| | |
|---|---|
| Analogue | 2 x Analogue input Possible settings: 0-10 V, 0-20 mA, 4-20 mA (No Alarm), 4-20 mA (Alarm), 4-20 mA (Error) |
| Digital | 1 x Analogue output Possible settings: 0-10 V 3 x Digital inputs (1 frequency input) 1 x Digital input / output programmable 1 x Digital input / output programmable (can be used as a frequency or PWM output to represent analogue value) |
| Digital Input Logic | Positive |
| Relay | 1 x Relay (single pole, double throw relay) |
| Accuracy | Frequency 0.02%, Analogue input 1: 11 bit plus sign, Analogue input 2: 11 bit. Current typical 2%. |
| Extra I/O with SI-I/O Option Module (Available as an Accessory) | 3 x Analogue inputs (default) / Digital inputs programmable 4 x Digital input / output programmable 1 x Digital input 2 x Relays |

Mounting & Environment

| | |
|---------------------------------------|--|
| IP Rating | IP20 Conduit Box UL Type 1 ingress protection (available as an accessory) |
| Storage Temperature | -40 °C to 60 °C (-4 °F to 140 °F) |
| Operating Temperature Without De-Rate | -20 °C to 40 °C (-4 °F to 104 °F) |
| Operating Temperature with De-Rate | -20 °C to 60 °C (-4 °F to 140 °F) Frames 1 to 4 -20 °C to 55 °C (-4 °F to 131 °F) Frames 5 to 9 |
| Cooling | Integral cooling fan |
| Altitude | ≤3000 m (≤1000 m no de-rate; 1000 m to 3000 m derate 1 % every 100 m) |
| Humidity | 95 % non-condensing at 40 °C / 104 °F - EN61800-2(3k3) |
| Pollution | Pollution degree 2 - dry, non-conducting pollution only |
| Vibration | Reference standard IEC60068-2-27, IEC60068-2-29 bump test, IEC60068-2-64 random vibration test, IEC60068-2-6, EN61800-5-1 sinusoidal vibration test. Tested to Environmental Category ENV3 |
| Mechanical Shock | Tested in accordance with IEC 60068-2-27 and IEC 60068-2-29 |
| Mounting Methods | Frame 1 to 4 – Surface mount via mounting holes or DIN Rail mount Frame 5 to 9 – Surface mount via mounting brackets or through-panel mount via through-panel mounting kit |
| Mounting Clearance | 0 mm either side, 100 mm above and below |
| Overvoltage Category | Category III (IEC/EN/KN/UL 61800-5-1) |
| Corrosive Environments | EN 60721-3-3 IS09223 Class C3 |
| Maximum Motor Cable Length | 75 m Frame 1 100 m Frames 2 to 4 200 m Frames 5 to 6 250 m Frames 7 to 9 |

Standards

| | |
|--------------------------|---|
| Approvals | CE (European Union), cUL Listed (USA and Canada), DNV (marine applications), KC (Korea), RCM (Australia/ New Zealand), EAC (Russian Customs Union), UKCA (United Kingdom), C-Tick (Australia)  |
| Product Safety Standards | IEC/EN/KN/UL 61800-5-1, CSA C22.2 No.274, GB12668.501-2013 C300 models only: The Safe Torque Off (STO) function may be used as a safety component of a machine. Type examination certificates by TÜV Rheinland: Frame sizes 1 - 4: No. 01/205/5383.03/18 Frame sizes 5 - 9: No. 01/205/5387.02/18 |
| TÜV | Functional safety parameters: EN ISO 13849-1 - Cat 4, PLe EN61800-5-2/EN62061/IEC 61508 - SIL3 UL functional safety approval: FSPC E171230 |
| Product EMC Standards | IEC/ EN 61800-3 Immunity and Emissions EN 61000-6-2: Immunity for industrial environments EN 61000-6-4: Emissions for industrial environments EN 61000-3-2: Harmonic current emissions An EMC data sheet is available on request |
| RoHS | Complies with the Restriction of Hazardous Substances Directive (2011/65/EU) |
| Immunity Compliance | Second environment (Industrial) |
| ISO | Manufacturing facilities comply with ISO 9001:2015 and ISO 14001 |

Warranty

| | |
|----------|---|
| Warranty | 5 Years (warranty terms and conditions apply) |
|----------|---|

Accessories

| | |
|--------------------------------------|---|
| Remote Interfaces | Remote keypad IP66, Remote keypad RTC, HMI |
| Filters & Cables | External EMC filters, CT communications cable |
| Communication & Feedback, SI-Options | AI-485 24 V Adaptor, SI-EtherCAT, SI-PROFIBUS, SI-Ethernet , SI-DeviceNET, SI-CANopen, SI-PROFINET , SI-POWERLINK, SI-Encoder |

| | | |
|--|--|---|
| Back-up & Cloning | AI-Back-up Adaptor AI-Smart Adaptor | |
| Conduit Box | For UL Type 1 ingress protection | |
| Protection | | |
| Conformal Coating | 100 % Coverage | |
| DC Bus Undervoltage Error Level | 100 V models: 175 Vdc | |
| | 200 V models: 175 Vdc | |
| | 400 V models: 330 Vdc | |
| | 575 V models: 435 Vdc | |
| | 690 V models: 435 Vdc | |
| DC Bus Overvoltage Error Level | Frame sizes 1 - 4: 100 V models: 510 Vdc 200 V models: 510 Vdc 400V models: 870 Vdc | |
| | Frame size 5 - 9: 200V models: 415 Vdc 400 V models: 830 Vdc 575 V models: 990 Vdc 690 V models: 1190 Vdc | |
| | Drive Overload Error | Programmable: Default settings: 180% for 3s, 150% for 60s |
| | Instantaneous Overcurrent Error/Limit | 220% of rated motor current |
| | Phase Loss Error | DC Bus Ripple Threshold Exceeded |
| Overtemperature Error | Control Board Over Temperature, Inverter Model Temperature, Inverter Thermistor Temperature, Drive heatsink temperature exceeds 95°C (203°F) | |
| Short Circuit Error | Protection against output phase-to-phase fault | |
| Ground Fault Error | Protection against output phase-to-ground fault | |
| Motor Thermal Protection | Electronically protects the motor from over-heating due to loading conditions | |
| Keep Running | Parameter set to avoid errors and machine downtime (needs to be configured) | |
| Dedicated Thermistor Input | Avoid downtime or machine damage due to overheated motor | |
| General | | |
| Items supplied with the drive | Step-By-Step Guide, Safety Information, Grounding bracket (Frames 1 to 4), Surface mounting brackets (frame 5 to 9) | |

FUNCTIONALITY

Modbus RTU Communications (available with AI-485 Adaptor)

| | |
|----------------------|----------------------------|
| Control Word Control | ✓ |
| Cloning | ✓ |
| Serial Baud Rate | 600 to 115000 bps |
| Modbus RTU Protocol | 8.2NP, 8.1NP, 8.1EP, 8.1OP |

On Board PLC

| | |
|--|---|
| User Memory Space | 30 KB |
| User Software Tools (Free to Download) | <p>Machine Control Studio</p> <ul style="list-style-type: none"> • CODESYS based • Included programming languages: ladder diagram, structure text, function block diagram, instruction list, sequential function chart, continuous function chart <ul style="list-style-type: none"> • Function block libraries • On-line monitoring of program variables with user defined watch windows <ul style="list-style-type: none"> • Support for on-line change of program |
| Pre-set Programs (Available on Request) | Unbalanced Load Detection (Laundry Application) |

Reference

| | |
|---|---|
| Selectable References | 4 (Selectable: Analogue Ref. 1, Analogue Ref. 2, Pre-set Frequency Ref., Keypad Ref.) |
| Jog Reference | ✓ |
| Up / Down % Reference (Motorised Pot) | ✓ |
| Bi-Polar Reference | ✓ |
| Pre-set Speeds | 8 |
| Pre-set Timer | ✓ |
| Skip Frequencies | 3 |
| Skip Frequencies Dead Band | ✓ |
| Local/Remote | ✓ |
| S-Ramp | ✓ |
| Acceleration Rates | 8 |
| Deceleration Rates | 8 |
| Frequency Input Reference (Pulse Train) | 0 Hz to 100 kHz |
| Run Reverse | ✓ |
| Torque Reference | ✓ |

Application Specific

| | |
|------------------------|------------|
| PID Controller | PI Control |
| PID Feedforward | ✓ |
| PID Threshold Detector | ✓ |
| PID Slew Rate | ✓ |

| | |
|--|--|
| Reference Configuration | ✓ |
| Run/Stop Configuration | ✓ |
| Input Scaling | ✓ |
| Run Permit (Latching Run) | ✓ |
| Limit Switches | ✓ |
| Additional Application Parameters | 64 |
| Control | |
| Control Mode: Linear V to F | ✓ (Definable Boost) |
| Control Mode: Square V to F | ✓ (Definable Boost) |
| Control Mode: Low Energy Mode (Dynamic V to F) | ✓ |
| Control Mode: Set Point V to F | ✓ |
| Control Mode: Stator Resistance Compensation | ✓ |
| Control Mode: RFC-A (Enhanced Open-Loop Performance) | ✓ |
| Motor Stability Optimiser | ✓ |
| Slip Compensation | ✓ |
| Auto-tune: Static | ✓ |
| Auto-tune: Rotating | ✓ |
| Switching Frequency | Size 1 - 4: 0.667, 1, 2, 3, 4, 6, 8, 12 & 16 kHz Size 5 - 9: 2, 3, 4, 6, 8, 12 & 16 kHz (Factory default = 3kHz) |
| Catch an Already Spinning Motor | ✓ |
| Speed Feedback via SI-Encoder Option | ✓ |
| Second Motor Set-up | ✓ |
| Motor Pre-Heat Control | ✓ |
| Stop Mode: Ramp | ✓ |
| Stop Mode: Coast | ✓ |
| Stop Mode: Ramp & DC Injection | ✓ |
| Stop Mode: DC Injection Braking with 0 Hz detect | ✓ |
| Stop Mode: Timed DC Injection Braking | ✓ |
| Built-in Braking Transistor (External Resistor Required) | ✓ |
| Brake Settings (DC bus) | ✓ |
| Programmable Braking in RFC-A Mode | ✓ |
| Mechanical Brake Controller | ✓ |
| Supply Loss Detection | ✓ |
| Low DC Link Operation | ✓ |

| | |
|-----------------------------------|-----------------------------------|
| Analogue Input Control | ✓ |
| Analogue Output Control | ✓ |
| Digital Input Control | ✓ |
| Digital Output Control | ✓ |
| Relay Control | ✓ |
| Logic Function Control | ✓ |
| Timer Function Control | ✓ |
| Limit Switch Control | ✓ |
| Variable Selector | ✓ |
| Temperature Monitoring | ✓ |
| Keypad Button Assignment | ✓ |
| Programmable Output Current Limit | ✓ |
| General | |
| Diagnostics | ✓ |
| Error History Log | 10 |
| Auto-Reset After Error | ✓ |
| Error Time Stamping | ✓ |
| Power Loss Ride Through | ✓ |
| Run Time Log | ✓ |
| Cloning | Via: Modbus RTU, SD Card, Connect |
| Energy Meter | ✓ |
| Security | 4-digit PIN protectionw |

DIMENSIONS

Commander C200/C300 Dimensions

| Frame Size | Overall Dimensions | | | | | | Mounting Dimensions | | | | Mounting Hole Dia. | | Weight | |
|------------|--------------------|-----|-----|-------|-------|-------|---------------------|------|-------|-------|--------------------|------|--------|-------|
| | mm | | | in | | | mm | | in | | mm | in | kg | lb |
| | H | W | D | H | W | D | H | W | H | W | | | | |
| 1 | 160 | 75 | 130 | 6.30 | 2.95 | 5.1 | 143 | 53 | 5.7 | 2.08 | 5.0 | 0.20 | 0.75 | 1.65 |
| 2 | 205 | 75 | 150 | 8.07 | 2.95 | 5.9 | 194 | 55 | 7.63 | 2.17 | 5.0 | 0.20 | 1.3 | 3.0 |
| 3 | 226 | 90 | 160 | 8.90 | 3.54 | 6.3 | 215 | 70.7 | 8.46 | 2.80 | 5.0 | 0.20 | 1.5 | 3.3 |
| 4 | 277 | 115 | 175 | 10.90 | 4.50 | 6.9 | 265 | 86 | 10.43 | 3.40 | 6.0 | 0.23 | 3.13 | 6.9 |
| 5 | 391 | 143 | 200 | 15.39 | 5.63 | 7.87 | 375 | 106 | 14.76 | 4.17 | 6.5 | 0.26 | 7.4 | 16.3 |
| 6 | 291 | 210 | 227 | 15.39 | 8.27 | 8.94 | 378 | 196 | 14.88 | 7.72 | 7.0 | 0.28 | 14.0 | 30.9 |
| 7 | 557 | 270 | 280 | 21.93 | 10.63 | 11.02 | 538 | 220 | 21.18 | 8.66 | 9.0 | 0.35 | 28.0 | 61.7 |
| 8 | 804 | 310 | 290 | 31.65 | 12.21 | 11.42 | 884 | 259 | 30.87 | 10.20 | 9.0 | 0.35 | 52.0 | 114.6 |
| 9A | 1069 | 310 | 290 | 42.09 | 12.21 | 11.42 | 1051 | 259 | 41.38 | 10.20 | 9.0 | 0.35 | 46.0 | 101.4 |
| 9E | 1108 | 310 | 290 | 43.62 | 12.21 | 11.42 | 1090 | 259 | 42.91 | 10.20 | 9.0 | 0.35 | 66.5 | 146.6 |



Documentation & Downloads

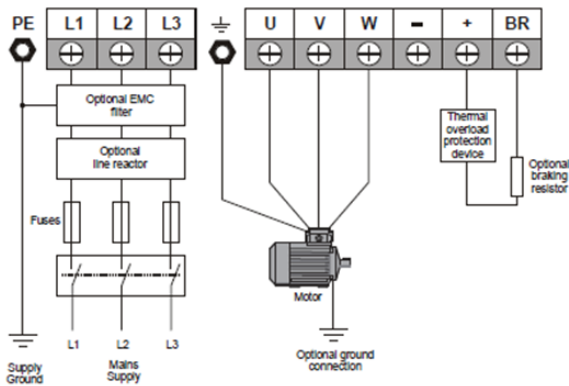
Product documentation and PC tools available for download from:

www.controltechniques.com/support

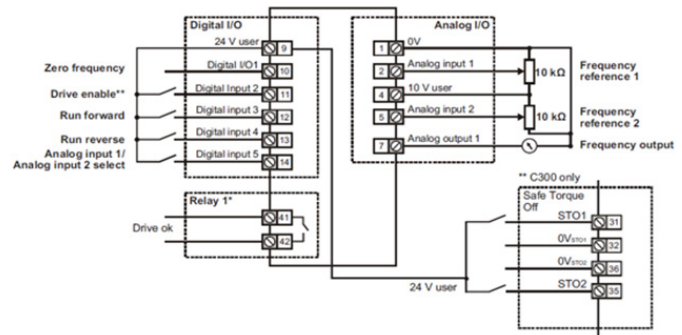


CONNECTIONS

Typical Power Connections



Default Control Connections



PRODUCT CODES

C200- 03 4 00073 A - 101 00 AB100

Model:
C200 – The lead product for Commander C range
C300 – As C200 + dual STO

Frame Size:
1 to 9

Current Rating:
Heavy Duty current rating x 10

CT Reserved

Product Variant:
AB100- Standard

Voltage Rating:
1: 100 V drive (100 V to 120 V ±10 %)
2: 200 V drive (200 V to 240 V ±10 %)
4: 400 V drive (380 V to 480 V ±10 %)
5: 575 V drive (500 V to 575 V ±10 %)
6: 690 V drive (500 V to 690 V ±10 %)

Drive Format:
A – AC in AC out
*E – AC in AC out, External line reactor

Regional Default Setting:
00 – 50 Hz
01 – 60 Hz

MODEL NUMBER AND RATINGS

Variants with C3 built-in EMC filter

| Product Code | Input Phases | Frame Size | Heavy Duty | | | Normal Duty | | |
|---------------------------|--------------|------------|----------------------------|------------------------|------------------------|----------------------------|------------------------|------------------------|
| | | | Max Continuous Current (A) | Motor Shaft Power (kW) | Motor Shaft Power (hp) | Max Continuous Current (A) | Motor Shaft Power (kW) | Motor Shaft Power (hp) |
| 100/120 Vac +/-10% | | | | | | | | |
| C200-01100017A10100AB100 | 1 | 01 | 1.7 | 0.25 | 0.33 | | | |
| C200-01100024A10100AB100 | 1 | 01 | 2.4 | 0.37 | 0.5 | | | |
| C200-02100042A10100AB100 | 1 | 02 | 4.2 | 0.75 | 1 | | | |
| C200-02100056A10100AB100 | 1 | 02 | 5.6 | 1.1 | 1.5 | | | |
| 200/240 Vac +/-10% | | | | | | | | |
| C200-01200017A10100AB100 | 1 | 01 | 1.7 | 0.25 | 0.33 | | | |
| C200-01200024A10100AB100 | 1 | 01 | 2.4 | 0.37 | 0.5 | | | |
| C200-01200033A10100AB100 | 1 | 01 | 3.3 | 0.55 | 0.75 | | | |
| C200-01200042A10100AB100 | 1 | 01 | 4.2 | 0.75 | 1 | | | |
| C200-02200024A10100AB100 | 1 3 | 02 | 2.4 | 0.37 | 0.5 | | | |
| C200-02200033A10100AB100 | 1 3 | 02 | 3.3 | 0.55 | 0.75 | | | |
| C200-02200042A10100AB100 | 1 3 | 02 | 4.2 | 0.75 | 1 | | | |
| C200-02200056A10100AB100 | 1 3 | 02 | 5.6 | 1.1 | 1.5 | | | |
| C200-02200075A10100AB100 | 1 3 | 02 | 7.5 | 1.5 | 2 | | | |
| C200-03200100A10100AB100 | 1 3 | 03 | 10 | 2.2 | 3 | | | |
| C200-04200133A10100AB100 | 1 3 | 04 | 13.3 | 3 | 3 | | | |
| C200-04200176A10100AB100 | 3 | 04 | 17.6 | 4 | 5 | | | |
| C200-05200250A10100AB100 | 3 | 05 | 25 | 5.5 | 7.5 | 30 | 7.5 | 10 |
| C200-06200330A10100AB100 | 3 | 06 | 33 | 7.5 | 10 | 50 | 11 | 15 |
| C200-06200440A10100AB100 | 3 | 06 | 44 | 11 | 15 | 58 | 15 | 20 |
| C200-07200610A10100AB100 | 3 | 07 | 61 | 15 | 20 | 75 | 18.5 | 25 |
| C200-07200750A10100AB100 | 3 | 07 | 75 | 18.5 | 25 | 94 | 22 | 30 |
| C200-07200830A10100AB100 | 3 | 07 | 83 | 22 | 30 | 117 | 30 | 40 |
| C200-08201160A10100AB100 | 3 | 08 | 116 | 30 | 40 | 149 | 37 | 50 |
| C200-08201320A10100AB100 | 3 | 08 | 132 | 37 | 50 | 180 | 45 | 60 |
| C200-09201760A10100AB100 | 3 | 09 | 176 | 45 | 60 | 216 | 55 | 75 |
| C200-09202190A10100AB100 | 3 | 09 | 219 | 55 | 75 | 266 | 75 | 100 |
| C200-09201760E10100AB100 | 3 | 09 | 176 | 45 | 60 | 216 | 55 | 75 |
| C200-09202190E10100AB100 | 3 | 09 | 219 | 55 | 75 | 266 | 75 | 100 |
| 380/480 Vac +/-10% | | | | | | | | |
| C200-02400013A10100AB100 | 3 | 02 | 1.3 | 0.37 | 0.5 | | | |
| C200-02400018A10100AB100 | 3 | 02 | 1.8 | 0.55 | 0.75 | | | |
| C200-02400023A10100AB100 | 3 | 02 | 2.3 | 0.75 | 1 | | | |
| C200-02400032A10100AB100 | 3 | 02 | 3.2 | 1.1 | 1.5 | | | |
| C200-02400041A10100AB100 | 3 | 02 | 4.1 | 1.5 | 2 | | | |
| C200-03400056A10100AB100 | 3 | 03 | 5.6 | 2.2 | 3 | | | |
| C200-03400073A10100AB100 | 3 | 03 | 7.3 | 3 | 3 | | | |
| C200-03400094A10100AB100 | 3 | 03 | 9.4 | 4 | 5 | | | |

For Normal Duty applications, use Heavy Duty ratings.

For Normal Duty applications, use Heavy Duty ratings.

For Normal Duty applications, use Heavy Duty ratings.

| | | | | | | | | | |
|--------------------------|---|----|------|------|-----|-----|------|-----|--|
| C200-04400135A10100AB100 | 3 | 04 | 13.5 | 5.5 | 7.5 | | | | |
| C200-04400170A10100AB100 | 3 | 04 | 17 | 7.5 | 10 | | | | |
| C200-05400270A10100AB100 | 3 | 05 | 27 | 11 | 20 | 30 | 15 | 20 | |
| C200-05400300A10100AB100 | 3 | 05 | 30 | 15 | 20 | 30 | 15 | 20 | |
| C200-06400350A10100AB100 | 3 | 06 | 35 | 15 | 25 | 38 | 18.5 | 25 | |
| C200-06400420A10100AB100 | 3 | 06 | 42 | 18.5 | 30 | 48 | 22 | 30 | |
| C200-06400470A10100AB100 | 3 | 06 | 47 | 22 | 30 | 63 | 30 | 40 | |
| C200-07400660A10100AB100 | 3 | 07 | 66 | 30 | 50 | 79 | 37 | 50 | |
| C200-07400770A10100AB100 | 3 | 07 | 77 | 37 | 60 | 94 | 45 | 60 | |
| C200-07401000A10100AB100 | 3 | 07 | 100 | 45 | 75 | 112 | 55 | 75 | |
| C200-08401340A10100AB100 | 3 | 08 | 134 | 55 | 100 | 155 | 75 | 100 | |
| C200-08401570A10100AB100 | 3 | 09 | 157 | 75 | 125 | 184 | 90 | 125 | |
| C200-09402000A10100AB100 | 3 | 09 | 200 | 90 | 150 | 221 | 110 | 150 | |
| C200-09402240A10100AB100 | 3 | 09 | 224 | 110 | 150 | 266 | 132 | 200 | |
| C200-09402000E10100AB100 | 3 | 09 | 200 | 90 | 150 | 221 | 110 | 150 | |
| C200-09402240E10100AB100 | 3 | 09 | 224 | 110 | 150 | 266 | 132 | 200 | |

500/575 Vac +/- 10%

| | | | | | | | | | |
|--------------------------|---|----|-----|------|-----|-----|------|-----|--|
| C200-05500030A10100AB100 | 3 | 05 | 3 | 1.5 | 2 | 3.9 | 2.2 | 3 | |
| C200-05500040A10100AB100 | 3 | 05 | 4 | 2.2 | 3 | 6.1 | 4 | 5 | |
| C200-05500069A10100AB100 | 3 | 05 | 6.9 | 4 | 5 | 10 | 5.5 | 7.5 | |
| C200-06500100A10100AB100 | 3 | 06 | 10 | 5.5 | 7.5 | 12 | 7.5 | 10 | |
| C200-06500150A10100AB100 | 3 | 06 | 15 | 7.5 | 10 | 17 | 11 | 15 | |
| C200-06500190A10100AB100 | 3 | 06 | 19 | 11 | 15 | 22 | 15 | 20 | |
| C200-06500230A10100AB100 | 3 | 06 | 23 | 15 | 20 | 27 | 18.5 | 25 | |
| C200-06500290A10100AB100 | 3 | 06 | 29 | 18.5 | 25 | 34 | 22 | 30 | |
| C200-06500350A10100AB100 | 3 | 06 | 35 | 22 | 30 | 43 | 30 | 40 | |
| C200-07500440A10100AB100 | 3 | 07 | 44 | 30 | 40 | 53 | 37 | 50 | |
| C200-07500550A10100AB100 | 3 | 07 | 55 | 37 | 50 | 73 | 45 | 60 | |
| C200-08500630A10100AB100 | 3 | 08 | 63 | 45 | 60 | 86 | 55 | 75 | |
| C200-08500860A10100AB100 | 3 | 08 | 86 | 55 | 75 | 108 | 75 | 100 | |
| C200-09501040A10100AB100 | 3 | 09 | 104 | 75 | 100 | 125 | 90 | 125 | |
| C200-09501310A10100AB100 | 3 | 09 | 131 | 90 | 125 | 150 | 110 | 150 | |
| C200-09501040E10100AB100 | 3 | 09 | 104 | 75 | 100 | 125 | 90 | 125 | |
| C200-09501310E10100AB100 | 3 | 09 | 131 | 90 | 125 | 150 | 110 | 150 | |

500/690 Vac +/- 10%

| | | | | | | | | | |
|--------------------------|---|----|----|------|----|----|------|----|--|
| C200-07600190A10100AB100 | 3 | 07 | 19 | 15 | 20 | 23 | 18.5 | 25 | |
| C200-07600240A10100AB100 | 3 | 07 | 24 | 18.5 | 25 | 30 | 22 | 30 | |
| C200-07600290A10100AB100 | 3 | 07 | 29 | 22 | 30 | 36 | 30 | 40 | |
| C200-07600380A10100AB100 | 3 | 07 | 38 | 30 | 40 | 46 | 37 | 50 | |
| C200-07600440A10100AB100 | 3 | 07 | 44 | 37 | 50 | 52 | 45 | 60 | |
| C200-07600540A10100AB100 | 3 | 07 | 54 | 45 | 60 | 73 | 55 | 75 | |

| | | | | | | | | |
|--------------------------|---|----|-----|-----|-----|-----|-----|-----|
| C200-08600630A10100AB100 | 3 | 08 | 63 | 55 | 75 | 86 | 75 | 100 |
| C200-08600860A10100AB100 | 3 | 08 | 86 | 75 | 100 | 108 | 90 | 125 |
| C200-09601040A10100AB100 | 3 | 09 | 104 | 90 | 125 | 125 | 110 | 150 |
| C200-09601310A10100AB100 | 3 | 09 | 131 | 110 | 150 | 150 | 132 | 175 |
| C200-09601040E10100AB100 | 3 | 09 | 104 | 90 | 125 | 125 | 110 | 150 |
| C200-09601310E10100AB100 | 3 | 09 | 132 | 110 | 150 | 150 | 132 | 175 |

Note: The listed ordering codes are for C200, 50 Hz default setting.

For C300 change the model digits **(C200-xxxxxxxxxxxxxxxxxxxx)** from C200 to C300.

For 60 Hz change the Regional Default Setting digits **(xxxx-xxxxxxxxxxxx00xxxx)** from 00 to 01.



© 2022 Nidec Control Techniques Limited. The information contained in this brochure is for guidance only and does not form part of any contract. The accuracy cannot be guaranteed as Nidec Control Techniques Ltd have an ongoing process of development and reserve the right to change the specification of their products without notice.

Nidec Control Techniques Limited. Registered Office: The Gro, Newtown, Powys SY16 3BE. Registered in England and Wales. Company Reg. No. 01236886

Part No. 0781-0585-03 01/23