OMRON

CIMR-A

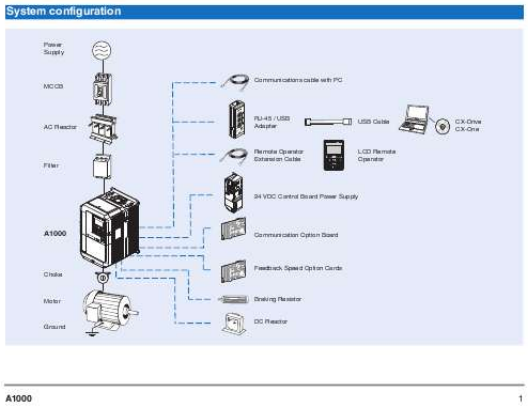
A1000

High performance Vector Control

- Current vector control, with or without PG
- High starting torque (200% / 0.3 Hz, spd range 1:200 OLV), (200% at 0 r/min, spd range 1:1500 CLV)
- Double rating ND 120%/ 1min and HD 150%/1 min
- IM&PM motor control
- Advanced Auto-Tuning for IM & PM Motors
- Open Loop Control of PM Motors
- Low-noise Low carrier technology
- 10 years lifetime design
- Screw-less terminals
- Control Terminals with memory backup
- 24 VDC control board power supply option
- Fieldbus communications: Modbus, Profibus, CanOpen, DeviceNet, ML-II
- Safety embedded: EN954-1 safety cat. 3, stop category 0, IEC EN 61508 SIL 2 and EN61800-5-1 with EDM
- CE, UL, cUL and TUV

Ratings

- 200 V Class three-phase 0.4 to 110 kW
- 400 V Class three-phase 0.4 to 315 kW



Manual abstract:

3 Hz, spd range 1:200 OLV), (200% at 0 r/min, spd range 1:1500 CLV) · Double rating ND 120%/1min and HD 150%/1 min · IM&PM motor control · Advanced Auto-Tuning for IM & PM Motors · Open Loop Control of PM Motors · Low-noise Low carrier technology · 10 years lifetime design · Screw-less terminals · Control Terminals with memory backup · 24 VDC control board power supply option · Fieldbus communications: Modbus, Profibus, CanOpen, DeviceNet, ML-II · Safety embedded: EN954-1 safety cat. 3, stop category 0, IEC EN 61508 SIL 2 and EN61800-5-1 with EDM · CE, UL, cUL and TUV Ratings · 200 V Class three-phase 0.4 to 110 kW · 400 V Class three-phase 0.4 to 315 kW System configuration Power Supply Communications cable with PC MCCB US B py Co Un it R ER CO M Co py AC Reactor CK LO 81 P-1 JVO YAS A KAW RJ-45 / USB Adapter USB Cable CX-Drive CX-One Re ad Ver ify Remote Operator Extansion Cable Filter LCD Remote Operator 24 VDC Control Board Power Supply A1000 Communication Option Board Feedback Speed Option Cards Choke Motor Braking Resistor Ground DC Reactor A1000 1 Specifications Type designation C I M R AC 4 A 0 0 0 4 FA A Version AC Drive Coating specs: A: Standard Enclosure, Fin: A: IP00 F: IP20 / Nema 1 A1000 series C: European standard specifications Voltage: 2: Three-phase 200 VAC 4: Three-phase 400 VAC Rated output Current Normal Duty 0004: 3.5 [A] ~ 0675: 675 [A] A: Standard specs 200 V class Motor kW1 Three-phase: CIMR-A@2A For HD setting For ND setting Inverter capacity kVA at HD2 Inverter capacity kVA at ND2 Rated output current (A) at HD Rated output current (A) at ND3 Max. output voltage Output characteristics 0004 0.40 0.75 1.2 1.3 3.
24 3.5 0006 0.75 1.1 1.9 2.
3 54 6 0010 1.5 2.2 3 3.7 84 9.6 0012 2.
2 3.0 4.2 4.6 114 12 0021 4.0 5.5 6.7 8 21 0030 5.5 7.5 9.5 0040 7.

5 11 12.6 334 40 0056 11 15 17.9 474 56 0069 15 18.5 23 26 604 69 0081 18.5 22 29 31 754 81 0110 22 30 32 42 854 110 0138 30 37 44 53 138 0169 37 45 55 64 169 0211 45 55 69 80 211 0250 55 75 82 95 250 0312 75 90 108 119 312 0360 90 110 132 137 360 0415 110 110 158 158 415 11.4 15.2 21 30 17.54 254 1154 1455 1805 2155 2835 3465 4153 Proportional to input voltage: 0..240 V Power supply 400 Hz Max.
output frequency Rated input voltage and frequency 3-phase 200..240 V 50/60 Hz -15%..+10% Allowable voltage fluctuation Allowable frequency fluctuation Input Current (A) at HD6 Input Current (A) at ND6 +5% 2.
9 3.9 5.8 7.3 7.5 11 18.
9 24 28 37 37 52 52 68 68 80 80 96 82 111 111 136 136 164 164 200 200 271 271 324 324 394 394 471 10.8 13.9 1. 2. 3. 4. 5. 6. Based on a standard 4-pole motor for maximum applicable motor output: Rated Motor Capacity is calculated with a rated output voltage of 220 V: Carrier frequency is set to 2kHz. @@Higher carrier frequency settings require derating: Carrier frequency can be increased up to 5 kHz while keeping this current rating.

Higher carrier frequency settings require derating: Assumes operation at rated output current. Input current rating varies depending on the power supply transformer, input reactor, Wiring conditions, and power supply impedance: 400 V class Motor kW1 Three-phase: CIMR-A@4A For HD setting For ND setting Inverter capacity kVA at HD2 Inverter capacity kVA at ND2 Rated output current (A) at HD Rated output current (A) at ND3 Max. output voltage Output characteristics 0002 0.4 0.75 1.4 1.6 1.84 2.1 0004 0.75 1.
5 2.6 3.1 3.44 4.1 0005 1.
5 2.2 3.7 4.1 4.84 5.
4 0007 2.2 3.0 4.2 5.3 5.54 6.9 0009 3.0 4.0 5.5 6.

7 7.24 8.8 0011 4.0 5.5 7 8.5 9.24 11.1 0018 5.5 7.5 11.
3 13.3 14.84 17.5 0023 7.5 11 13.
7 17.5 184 23 0031 11 15 18.3 24 244 31 0038 15 18.5 24 29 314 38 0044 18.5 22 30 34 394 44 0058 22 30 34 44 454 58 380.
.480V (proportional to input voltage) Power supply 400 Hz Max. @@output voltage Max. @@2. 3. 4. 5. @@@@Higher carrier frequency settings require derating: Carrier frequency can be increased up to 5 kHz while keeping this current rating. Higher carrier frequency settings require derating: Assumes operation at rated output current. Input current rating varies depending on the power supply transformer, input reactor, Wiring conditions, and power supply impedance: Commom specifications Model number CIMR-A Control methods Output frequency range Frequency tolerance Resolution of frequency set value Resolution of output frequency Frequency set value Control functions Starting Torque Speed Control Range Speed Control Accuracy Speed Response Torque Limit Accel/Decel Time Specifications Sine wave PWM (V/f control, V/f control with PG, Open loop vector control, Closed loop vector control, Open loop vector control for PM, Closed loop vector control for PM, Advanced Open Loop Vector Control for PM) 0.

01..400 Hz Digital set value: ±0.01% of the max. output frequency (-10..+40 ºC) Analogue set value: ±0.1% of the max. output frequency (25 ±10 ºC) Digital set value: 0.01 Hz Analogue set value: 0.
03 Hz / 60 Hz (11 bit) 0.001 Hz -10..+10 V (20 k),0..
*10 V (20 k), 4..20 mA (250), Pulse train input, frequency setting value (selectable) 150%/3Hz (V/f control, V/f control with PG), 200%/0.3Hz*1 (Open loop vector control), 200%/ 0 r/min*1 (Closed loop vector control, Closed loop vector control for PM, Advanced Open Loop Vector Control for PM), 100% / 5% speed (Open loop vector control for PM), 1:1500 (Closed loop vector control, Closed loop vector control for PM), 1:200 (Open loop vector control), 1:40 (V/f control, V/f control with PG), 1:20 (Open Loop Vector Control for PM), 1:100 (Advanced Open Loop Vector Control for PM) ±0.2% in Open loop vector control (25 ±10 ºC) *2, 0.*
*02% in Closed loop vector control (25 ±10 ºC) 10 Hz in Open loop vector control (25 ±10 ºC), 50Hz in Closed loop Vector Control (25 ±10 ºC),)(excludes temperature fluctuation when performing Rotational Auto-Tuning) All Vector Control allows seperate settings in four quadrants 0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings) Drives of 200/400 V 30 kW or less have a built-in braking transistor. 1. Short-time decel torque*3, over 100% for 0.4/0.75 kW motors, over 50% for 1.5 kW motors, and over 20% for 2.2 kW and above motors (over excitation braking/High-Slip Braking approx. 40%) 2.*

*Continuous regen, torque approx. 20% (approx. 125% with dynamic braking resistor option*4, 10% ED,10 s, internal braking transistor) User-selected programs and V/f preset pattens possible Torque Control, Droop control, Speed/torque control switching, Feedforward control, Zero-servo control, Momentary power loss ride-thru, Speed search, Overtorque detection, Torque Limit, 17-step speed (max), Accel/Decel time switch S-curve Accel/Decel, 3-wire sequence, Auto-tuning (rotational, stationary), Online Tuning, Dwell Cooling fan on/off switch, slip compensation, Torque compensation, Frequency Jump, Upper/lower limits for frequency, DC injection braking at start and stop, Over excitation braking, High Slip braking, PID control (with sleep function), Energy saving control, MEMOBUS comm.*

*(RS-485/422 max. 115.2kbps), Fault restart, Application presets, Removable terminal block with parameter backup function... Motor overheat protection based on output current Drive stops when ouput current exceeds 200% of Heavy Duty Rating Drive stops after 60 s at 150% of rated output current (Heavy Duty Rating)*5 200 V class: Stops when DC bus exceeds approx. 410 V, 400 V class: Stops when DC bus exceeds approx. 820V 200 V class: Stops when DC bus exceeds approx. 190 V, 400 V class: Stops when DC bus exceeds approx. 380V Immediately stop after 15 ms or longer power loss (default), Continuous operation during power loss than 2 s (srandard)*6 Protected by thermister Overheat sensor for braking resistor (optional) Stall prevention during acceleration/deceleration and constant speed operation Protected by electronic circuit*7 Charge LED remains lit until DC bus has fallen below approx. 50 V. Braking torque V/f Characteristics Functionality Protection functions Main Control Functions Motor protection Momentary overcurrent Protection Overload Protection Overvoltage Protection Undervoltage Protection Momentary power loss Ride-Thru Heatsink Overheat Protection Braking Resistance Overheat Protection Stall prevention Ground fault Power charge indication A1000 3 Ambient conditions Area of Use Ambient Temperature Ambient humidity Storage temperature Altitude Vibration / Shock Safety Standard Protection Design Indoor (no corrosive gas, dust, etc.) -10ºC..+50ºC(open chassis) up to 60ºC with output current derating, -10ºC..+40ºC (NEMA Type 1) 95% RH or less (without condensation) -20ºC. .+60ºC (short-term temperature during transportation) Up to 1000 meters (output derating of 1% per 100 m above 1000 m, max. 3000 m) 10 Hz to 20 Hz, 9.8 m/s2 max. 20 Hz to 55Hz, 5.9 m/s2 (200 V: 45kW or more, 400 V: 55kW or more) or 2.0 m/s2 max. @@2. 3. 4.*

5. 6. 7. Requires a drive with recommended capacity. @@@@This may vary depending on the motor. @@@@Varies in accordance with the drive capacity and load. @@@@@@applicable motor output kW ND 30 37 45 HD 22 30 37 45 55 75 90 110 22 30 37 45 55 75 90 110 132 160 185 220 315 Inverter model CIMR-A@ 0110 0138 0169 0211 0250 0312 0360 0415 0058 0072 0088 0103 0139 0165 0er Bush) Mass 1.8 K Model CDBR-4220 B 4-M6 MTG Holes Mass 8.5 Kg 9 36.5 210 Main Circuit Terminal M6 370 355 317 104 70 156.

5 118.5 50 30 or more 30 or more 210 250 111 156 200 Mass 12 Kg Resistor Dimensions A1000-REJ0K15___ A1000-REJ0K10___ 168 11.5 182 100 or more 100 or more Lead Wire Inlet (28 Dia. Rubber Bush) 2-lead Wire Inlet (35 Dia. @@@@Sel DIP Switch S2 Term.

Res. @@@@@@@@1 A 30 Vdc, max 1 A (min. 5 Vdc, 10 mA) Multi-function relay output (During Run) 250 Vac, max. 1 A 30 Vdc, max 1 A (min. 5 Vdc, 10 mA) Multi-function relay output (Zero Speed) 250 Vac, max.

1 A 30 Vdc, max 1 A (min. @@1 A 30 Vdc, max 1 A (min. @@@@RS485/422 max. @@@@@@S1 S2 Digital input signals S3 S4 S5 S6 S7 S8 SC +V Analog input signals V A1 A2 A3 AC Safety monitor Safety Input output HC H1 H2 DM+ DM MA MB Digital output signals MC M1 Multi-function contact output (N.O) Factory setting Closed: During run M2 P1 P2 PC PulseI/O Analog output signals FM AM AC RP MP R+ RS-485/422 R S+ S Photocoupler output 1 Photocoupler output 2 Photocoupler output common Multi-function analog monitor (1) Multi-function analog monitor (2) Analog monitor common Factory setting: Zero speed Factory setting: Frequency Agree 0V Factory setting: Output frequency Factory setting: "Current monitor, 5 V/drive rated current 0V 10 to 10 V ±5%, (2 mA or less) 0 to 10 V 4 - 20 mA Photocoupler output: +48 VDC, 50 mA or less Signal name Multi-function input selection 1 Multi-function input selection 2 Multi-function input selection 3 Multi-function input selection 4 Multi-function input selection 5 Multi-function input selection 6 Multi-function input selection 7 Multi-function input selection 8 Multi-function input selection Common Function Factory setting: runs when CLOSED, stops when OPEN. Factory setting: runs when CLOSED, stops when OPEN. Factory setting: External Fault (N.O.) Factory setting: Fault reset Factory setting: Multi-step speed cmd 1 Factory setting: Multi-step speed cmd 2 Factory setting: Jog Frequency Factory setting: Closed gives external baseblock Common for control signal 24 VDC, 8 mA photocoupler insulation Signal level Power Supply for Frequency Setting +10.5 V (allowable max current 20 mA) Power Supply for Frequency Setting 10.

5 V (allowable max current 20 mA) Multi-function analogue input 1 Multi-function analogue input 2 Multi-function analogue input 3 Frequency reference common Safety Input Common Safety Input 1 Open: Stop Safety Input 2 Safety monitor output Open: Safety inputs 1 and 2 are open Safety monitor output common NO contact output NC Output Relay Output common Factory setting: "fault" Contact capacity 250 VAC, 1 A or less 30 VDC, 1 A or less 48 Vdc, 50mA or less Closed: Normal Operation Main Frequency Reference -10 to +10 VDC, 0 to +10 VDC (20 k) Voltage input or current input -10 to +10 VDC, 0 to +10 VDC (20 k) 4 to 20 mA (250) 10 to +10 V, 0 to +10 V (20 k) 0V +24 V (max allowable current 10 mA) Photocoupler 24 V DC, 8 mA Main Speed Cmd Pulse Train Input 32 kHz max. (3 k) Pulse Train Output Communication input (+) Communication input () Communication output (+) Communication output () For MEMOBUS communication operation by RS-485 or RS-422 communication is available. RS-485/422 MEMOBUS protocol Factory setting: Frequency reference input (H6-01=0) 0 to 33 kHz (2.2 k) A1000 9 Inverter heat loss Three-phase 200 V class Model Number CIMR-A 2A0004 2A0006 2A0010 2A0012 2A0021 2A0030 2A0040 2A0056 2A0069 2A0081 2A0110 2A0138 2A0169 2A0211 2A0250 2A0312 2A0360 2A0415 Heavy Duty Heatsink Loss Rated Amps (A) (W) 3.2 5.0 8.0 11.0 17.5 25 33 47 60 75 85 115 145 180 215 283 346 415 14.8 24 43 64 101 194 214 280 395 460 510 662 816 976 1514 1936 2564 2672 Interior Unit Loss (W) 44 48 52 58 67 92 105 130 163 221 211 250 306 378 466 588 783 954 Normal Duty Heatsink Loss Total Loss (W) Rated Amps (A) (W) 59 72 95 122 168 287 319 410 558 681 721 912 1122 1354 1980 2524 3347 3626 3.

5 6.0 9.6 12.0 21 30 40 56 69 81 110 138 169 211 250 312 360 415 18.4 31 57 77 138 262 293 371 491 527 719 842 1014 1218 1764 2020 2698 2672 Interior Unit Loss (W) 47 51 58 64 83 117 145 175 205 257 286 312 380 473 594 665 894 954 Total Loss (W) 66 82 115 141 222 379 437 546 696 785 1005 1154 1394 1691 2358 2686 3591 3626 Three-phase 400 V class Model Number CIMR-A 4A0002 4A0004 4A0005 4A0007 4A0009 4A0011 4A0018 4A0023 4A0031 4A0038 4A0044 4A0058 4A0072 4A0088 4A0103 4A0139 4A0165 4A0208 4A0250 4A0296 4A0362 4A0414 4A0515 4A0675 Heavy Duty Rated Amps (A) Heatsink Loss (W) 1.

8 3.4 4.8 5.5 7.2 9.

2 14.8 18.0 24 31 39 45 60 75 91 112 150 180 216 260 304 370 450 605 15.9 25 37 48 53 69 135 150 208 263 330 349 484 563 723 908 1340 1771 2360 2391 3075 3578 3972 4191 Interior Unit Loss (W) 45 46 49 53 55 61 86 97 115 141 179 170 217 254 299 416 580 541 715 787 985 1164 1386 1685 Normal Duty Total Loss (W) Rated Amps (A) Heatsink Loss (W) 61 70 87 101 108 130 221 247 323 403 509 518 701 817 1022 1325 1920 2313 3075 3178 4060 4742 5358 5875 2.

1 4.1 5.4 6.9 8.8 11.1 17.

5 23 31 38 44 58 72 88 103 139 165 208 250 296 362 414 515 675 20 32 45 62 66 89 177 216 295 340 390 471 605 684 848 1215 1557 1800 2379 2448 3168 3443 4850 4861 Interior Unit Loss (W) 48 49 53 59 60 73 108 138 161 182 209 215 265 308 357 534 668 607 803 905 1130 1295 1668 2037 Total Loss (W) 68 81 97 121 126 162 285 354 455 521 599 686 870 993 1205 1749 2224 2408 3182 3353 4298 4738 6518 6898 10 Frequency inverters Connections for braking unit and braking resistor Thermal relay Power supply Braking resistor Braking Resistor Overheat Contact (Thermal Relay Trip Contact) MCCB MC R/L1 B1 S/L2 T/L3 B2 U/T1 V/T2 W/T3 +3 Motor - 1 P B 2 Braking Resistor Unit THRX OFF ON MC A1000 SA - Level Detector + +0 -0 MC THRX MASTER A1000 Thermal relay switch for external braking resistor MC SA SLAVE +15 5 6 1 2 TRX SA TRX FLT-A FLT-B Braking Unit 1 3 4 Fault contact Cooling Fin Overheat Contact (Thermoswitch Contact) AC reactor AC reactor Power supply MCCB U V W X Y Z R/L1 S/L2 T/L3 A1000 Max. applicable motor output kW 0.4 0.75 1.5 2.2 4.0 5.5 7.5 11 15 18.5 22 30 37 45 55 75 90 110 200 V class Current value A 2.
5 5 10 15 20 30 40 60 80 90 120 160 200 240 280 360 500 600 - Inductance mH 4.2 2.1 1.1 0.71 0.
53 0.35 0.265 0.18 0.13 0.
12 0.09 0.07 0.05 0.044 0.039 0.026 0.02 0.02 Max. applicable motor output kW 0.

4 0.75 1.5 2.2 4.0 5.5 7.5 11 15 18.5 22 30 37 45 55 75 90/110 132/160 160/185/220 315 400 V class Current value A 1.3 2.5 5 7.
5 10 15 20 30 40 50 60 80 90 120 150 200 250 330 490 660 Inductance mH 18 8.4 4.2 3.6 2.2 1.
42 1.06 0.7 0.53 0.42 0.
36 0.28 0.24 0.18 0.15 0.11 0.09 0.06 0.04 0.03 DC reactor A1000 Power supply MCCB R/L1 S/L2 T/L3 +1 +2 DC reactor Max.

applicable motor output kW 0.4 0.75 1.5 2.2 4.0 5.5 7.5 11 15 18.5 22 to 110 200 V class Current value A 5.4 18 36 72 90 Built-in Inductance mH 8 3 1 0.
5 0.4 Max. applicable motor output kW 0.4 0.75 1.
5 2.2 4.0 5.5 7.5 11 15 18.
5 22 to 315 400 V class Current value A 3.2 5.7 12 23 33 47 Built-in Inductance mH 28 11 6.3 3.6 1.9 1.3 A1000 11 Safety System · A1000 provides Safe Torque Off (STO) functional safety in compliance with EN954-1 safety category 3 stop category 0, EN ISO 13849-1, PLC, IEC/EN61508 SIL2. · An External Device Monitor (EDM) function has also been added to monitor the safety status of the drive. EN954-1 Safety Cat.3 Compliance Power supply Safety controller Feedback loop Controller Motor 12 Frequency inverters Ordering information Power Supply C Communications cable with PC MCCB US B py Co Un it R ER CO M C RJ-45 / USB Adapter C USB Cable Co py D CX-Drive CX-One AC Reactor Re ad Ver ify CK LO 81 P-1 JVO YAS A KAW C A Filter Remote Operator Extansion Cable C LCD Remote Operator C 24 VDC Control Board Power Supply B A1000 Communication Option Board A Choke F Feedback Speed Option Cards E Motor Braking Resistor DC Reactor Ground A1000 0.

4 kW 0.75 kW 1.5 kW 2.2 kW 4.0 kW 5.5 kW 7.5 kW 11 kW 15 kW 18.5 kW 22 kW 30 kW 37 kW 45 kW 55 kW 75 kW 90 kW 110 kW 0.4 kW 0.75 kW 1.
5 kW 2.2 kW 3.0 kW 4.0 kW 5.5 kW 7.
5 kW 11 kW 15 kW 18.5 kW 22 kW 30 kW 37 kW 45 kW 55 kW 75 kW 90 kW 110 kW 132 kW 160 kW 185 kW 220 kW 315 kW Specifications Heavy Duty 3.2 A 5.0 A 8.0 A 11.
0 A 17.5 A 25.0 A 33.0 A 47.0 A 60.0 A 75 A 85 A 115 A 145 A 180 A 215 A 283 A 346 A 415 1.8 A 3.4 A 4.8 A 5.5 A 7.

2 A 9.2 A 14.8 A 18.0 A 24.0 A 31.0 A 39 A 45 A 60 A 75 A 91 A 112 A 150 A 180 A 216 A 260 A 304 A 370 A 450 A 605 A Normal Duty 0.75 kW 1.1 kW 2.2 kW 3.0 kW 5.
5 kW 7.5 kW 11.0 kW 15.0 kW 18.5 kW 22 kW 30 kW 37 kW 45 kW 55 kW 75 kW 90 kW 110 kW 110 kW 0.
75 kW 1.5 kW 2.2 kW 3.0 kW 4.0 kW 5.
5 kW 7.5 kW 11.0 kW 15.0 kW 18.5 kW 22 kW 30 kW 37 kW 45 kW 55 kW 75 kW 90 kW 110 kW 132 kW 160 kW 185 kW 220 kW 250 kW 355 kW 3.5 A 6.0 A 9.6 A 12.0 A 21.0 A 30.

0 A 40.0 A 56.0 A 69.0 A 81 A 110 A 138 A 169 A 211 A 250 A 312 A 360 A 415 A 2.1 A 4.1 A 5.4 A 6.9 A 8.8 A 11.1 A 17.
5 A 23.0 A 31.0 A 38.0 A 44 A 58 A 72 A 88 A 103 A 139 A 165 A 208 A 250 A 296 A 362 A 414 A 515 A 675 A Model Standard CIMR-AC2A0004FAA CIMR-AC2A0006FAA CIMR-AC2A0010FAA CIMR-AC2A0012FAA CIMR-AC2A0021FAA CIMR-AC2A0030FAA CIMR-AC2A0040FAA CIMR-AC2A0056FAA CIMR-AC2A0069FAA CIMR-AC2A0081FAA CIMR-AC2A0110AAA CIMR-AC2A0138AAA CIMR-AC2A0169AAA CIMR-AC2A0211AAA CIMR-AC2A0250AAA CIMR-AC2A0312AAA CIMR-AC2A0360AAA CIMR-AC2A0415AAA CIMR-AC4A0002FAA CIMR-AC4A0004FAA CIMR-AC4A0005FAA CIMR-AC4A0007FAA CIMR-AC4A0009FAA CIMR-AC4A0011FAA CIMR-AC4A0018FAA CIMR-AC4A0023FAA CIMR-AC4A0031FAA CIMR-AC4A0038FAA CIMR-AC4A0044FAA CIMR-AC4A0058AAA CIMR-AC4A0072AAA CIMR-AC4A0088AAA CIMR-AC4A0103AAA CIMR-AC4A0139AAA CIMR-AC4A0165AAA CIMR-AC4A0208AAA CIMR-AC4A0250AAA CIMR-AC4A0296AAA CIMR-AC4A0362AAA CIMR-AC4A0414AAA CIMR-AC4A0515AAA CIMR-AC4A0675AAA 200 V 400 V A1000 13 A Line filters Inverter Voltage Model CIMR-A 2CA0004 / 2CA0006 / 2CA0008 2CA0010 / 2CA0012 / 2CA0018 / 2CA0021 3-Phase 200 VAC 2CA0030 / 2CA0040 / 2CA0056 2CA0069 / 2CA0081 2CA00110 / 2CA0138 2CA0169 / 2CA0211 4CA0002 /4CA0004 / 4CA0005 / 4CA0007 4C0009 /4C0011 4CA0018 / 4CA0023 / 4CA0031 4CA0038 /4CA0044 / 4CA0058 3-Phase 400 VAC 4CA0072 /4CA0088 4CA0103 / 4CA0139 / 4CA0165 4CA0208 / 4CA0250 4CA0296 / 4CA0362 4CA0414 / 4CA0515 4CA0675 Reference 3G3RV-PFI3010-SE 3G3RV-PFI3018-SE 3G3RV-PFI2035-SE 3G3RV-PFI2060-SE 3G3RV-PFI2100-SE 3G3RV-PFI3170-SE 3G3RV-PFI3010-SE 3G3RV-PFI3018-SE 3G3RV-PFI3035-SE 3G3RV-PFI3060-SE 3G3RV-PFI3100-SE 3G3RV-PFI3170-SE 3G3RV-PFI3200-SE 3G3RV-PFI3400-SE 3G3RV-PFI3600-SE 3G3RV-PFI3800-SE Line filter Rated current (A) 10 18 35 60 100 170 10 18 35 60 100 170 250 400 600 800 Weight (kg) 1.2 1.
3 1.4 3 4.9 6.0 1.2 1.
3 2.2 4.0 4.5 6.0 11 8.5 11.0 31.0 Chokes Model Diameter Description Recommended for motors below 2.2 KW Recommended for motors below 15 KW Recommended for motors below 45 KW Recommended for motors above 45 KW A1000-FEV2102-RE A1000-FEV2515-RE A1000-FEV5045-RE A1000-FEV6045-RE 21 25 50 60 B Communication cards Type Model SI-N3 Communication option board Description DeviceNet option card Function · Used for running or stopping the inverter, setting or referencing parameters, and monitoring output frequency, output current, or similar items through DeviceNet communication with the host controller. · Used for running or stopping the inverter, setting or referencing parameters, and monitoring output frequency, output current, or similar items through PROFIBUS-DP communication with the host controller.

@@@@@@@@Applicable Motor kW 132 160 400 V Class 185 220 250 315 355 1. Braking unit Model Model No. of CIMR- CDBR_ used A@2A_ 0250

ND 4220B 1 0296 HD 0296 ND 4220B 1 0362 HD 0362 ND 4220B 1 0414 HD 0414 ND 1 4220B 0515 HD 0515 ND 4220B 1 0675 HD 4220B 2 0675 ND 4220B 2 Model A1000-RE_ - Braking Resistor1 Type Braking Specifications of Model Qty torque % Resistor LKEB(3% ED) 4045 4045 4045 4037 4045 Braking Min Specifications of Qty torque % Resist Resistor (10% ED) Value 9600W 9600W 9600W 9600W 9600W 13.

6 13.6 13.6 16 13.6 4 4 4 5 6 140 120 100 110 95 105 90 3.2 3.2 3.2 3.

2 3.2 3.2 When connecting a mounting type resistor or braking resistor unit, set system constant L3-04 to 0 (Stall prevention disabled during deceleration). Motor will not stop at set deceleration time if this constant is not changed. Additionally the Internal braking transistor protection (L8-55) should be set to "0" when a external braking unit (CDBR-) is used.

F Feedback speed option card Type PG option card Model PG-B3 Description Complementary PG Function · For speed feedback input by connecting a motor encoder Input: 3 track (one or two tracks), for HTL encoder connection, 50 KHz max Output: 3 track open collector Encoder power supply: 12 V, 200 mA max · For speed feedback input by connecting a motor encoder Input: 3 track, line driver, 300 kHz max Output: 3 track, line driver Encoder power supply: 5 V or 12 V, 200 mA max PG-X3 Line Driver PG ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. I79E-EN-01 In the interest of product improvement, specifications are subject to change without notice. 16 Frequency inverters .