



Automation for a Changing World

Delta Basic Compact Drive ME300 Series



www.deltaww.com

 **DELTA**
Smarter. Greener. Together.

Compact and Intelligent

The new standard for micro drives

The automation industry today is facing challenges such as increasing competition and rising costs. In addition to improving productivity and reducing direct labor, the driving force for automation is to achieve higher efficiency, optimal quality, and most importantly, flexibility and compatibility for a wide range of applications.

Delta's ME300 series is the new generation compact vector control drive that inherits Delta's superior drive technology with 60% volume reduction. Various essential functions are built-in as standard, including: user-defined parameter group, single and multi-pump function, built-in brake chopper and EMC filter (C2 Class). It reduces the need of additional expense and provides more installation space in the control cabinet. The ME300 also supports both induction and interior/surface permanent motors, providing more efficiency and flexibility. The STO function ensures smooth operation while protecting facilities from damage, and the new screw-less wiring design of terminal blocks offers a simplified wiring process for quick installation.

User-friendly operation, ultra-compact size, quick installation, and flexible, durable design provide the user with a highly efficient and stable system. The ME300 is your key to increased market competitiveness that leads the way to your success.





Models Overview

Hardware Design
Side-by-side Installation
Standard Models



Outstanding Drive Performance

Supports IM and PM Motors
High Starting Torque
Deceleration Energy Backup (DEB)
Enhanced Braking Capability



Strong System Support

Pump Control
Multi-pump Control
Pulse Input
Built-in Modbus Communication
Built-in Braking Chopper
High Overload Capability
Common DC Bus



Stable, Safe and Reliable

Safe Torque Off
PCB Coating
NEMA1 Kit (Optional)
Built-in EMC Filter



Easy Set Up

Application Groups (Macro)
Screwless Wiring of Control Terminal



Wide Range of Applications

Single / Multi-pumps
Conveyors
Fans
Woodworking Machines
Packaging Machines
Textile Machines



Specifications

Product Specifications
General Specifications and Accessories
Operating Environment
Wiring
Dimensions
Accessories
Model Name
Ordering Information

Models Overview

Hardware Design

Compact design and user-friendly interface

Size reduction *
60%

An orange callout box with a white background contains the text 'Size reduction *' and '60%'. An orange arrow points from this box to a smaller, more compact version of the Delta ME300 VFD, which is shown next to the standard larger model for comparison.

User-friendly Control and Display

4 digit LED display, frequency setting knob, direction function keys

A close-up image of the control panel on the Delta ME300 VFD. It features a 4-digit red LED display showing 'F 600', a black frequency setting knob, and several function keys: a green 'RUN' key, a red 'STOP/RESET' key, a blue 'MODE' key, and a blue 'ENTER' key. There are also two arrow keys for navigation.

Removable Fan

Easy to replace and maintain for a longer lifetime

A close-up image of the fan assembly on the side of the VFD. The fan is housed in a black plastic frame with a green indicator light. The design allows for easy removal and replacement.

Removable RFI Jumper

Applicable for different application needs

A close-up image of the RFI (Radio Frequency Interference) jumper on the side of the VFD. It consists of a metal bracket that can be moved to different positions to accommodate various application requirements.



Screwless Front Case

Press on both side tabs to remove the case

A close-up image of the front case mechanism of the VFD. It shows two side tabs that can be pressed inward to release the front cover, which is held in place by a locking mechanism.

* Up to 60% size reduction compared with corresponding ratings of Delta's VFD-EL Series

Side-by-Side Installation

Flexible and efficient installation supports side-by-side installation with operating temperature of -20°C ~ 40°C

Substantial space savings!



Standard Models

115V single-phase

| | | | | |
|------------------------------|-------|------|-----|------|
| Applicable Motor Output (kW) | 0.1 | 0.2 | 0.4 | 0.75 |
| Applicable Motor Output (HP) | 0.125 | 0.25 | 0.5 | 1 |
| Frame Size | A | | | C |

230V single-phase

| | | | | | | |
|------------------------------|-------|------|-----|------|-----|-----|
| Applicable Motor Output (kW) | 0.1 | 0.2 | 0.4 | 0.75 | 1.5 | 2.2 |
| Applicable Motor Output (HP) | 0.125 | 0.25 | 0.5 | 1 | 2 | 3 |
| Frame Size | A | | | B | C | |

230V single-phase (Built-in EMC filter)

| | | | | | | |
|------------------------------|-------|------|-----|------|-----|-----|
| Applicable Motor Output (kW) | 0.1 | 0.2 | 0.4 | 0.75 | 1.5 | 2.2 |
| Applicable Motor Output (HP) | 0.125 | 0.25 | 0.5 | 1 | 2 | 3 |
| Frame Size | B | | | | C | |

230V 3-phase

| | | | | | | | | |
|------------------------------|-------|------|-----|------|-----|-----|-------|-----|
| Applicable Motor Output (kW) | 0.1 | 0.2 | 0.4 | 0.75 | 1.5 | 2.2 | 3.7/4 | 5.5 |
| Applicable Motor Output (HP) | 0.125 | 0.25 | 0.5 | 1 | 2 | 3 | 5 | 7.5 |
| Frame Size | A | | | | B | C | | D |

460V 3-phase

| | | | | | | | |
|------------------------------|-----|------|-----|-----|-------|-----|-----|
| Applicable Motor Output (kW) | 0.4 | 0.75 | 1.5 | 2.2 | 3.7/4 | 5.5 | 7.5 |
| Applicable Motor Output (HP) | 0.5 | 1 | 2 | 3 | 5 | 7.5 | 10 |
| Frame Size | A | | B | C | | D | |

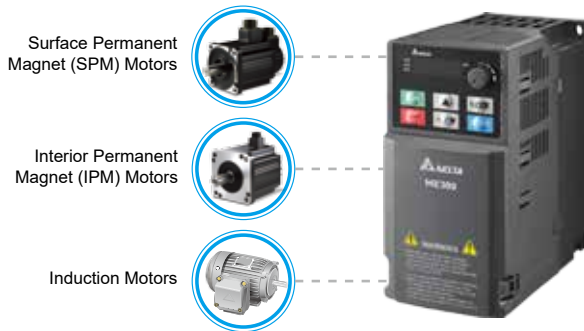
460V 3-phase (Built-in EMC filter)

| | | | | | | | |
|------------------------------|-----|------|-----|-----|-------|-----|-----|
| Applicable Motor Output (kW) | 0.4 | 0.75 | 1.5 | 2.2 | 3.7/4 | 5.5 | 7.5 |
| Applicable Motor Output (HP) | 0.5 | 1 | 2 | 3 | 5 | 7.5 | 10 |
| Frame Size | B | | | C | | D | |

Outstanding Drive Performance

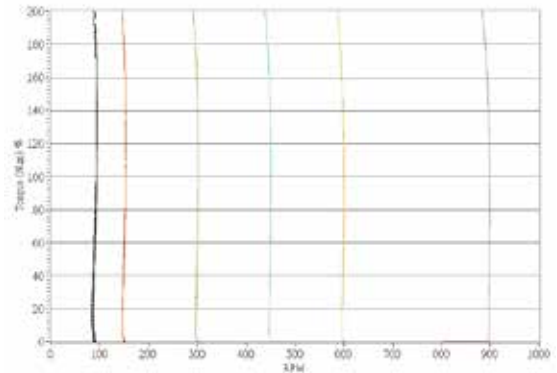
Supports IM and PM Motors

Supports 2 independent induction motor control parameter sets



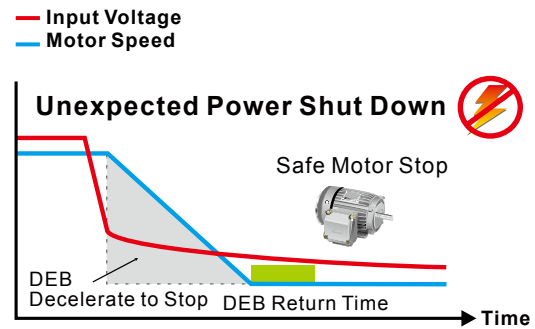
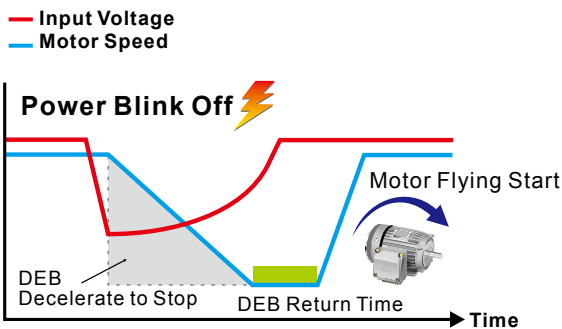
High Starting Torque

Delivers 200% high starting torque with a low speed control of 3Hz. This feature provides outstanding machine stability and is suitable for dynamic loading applications



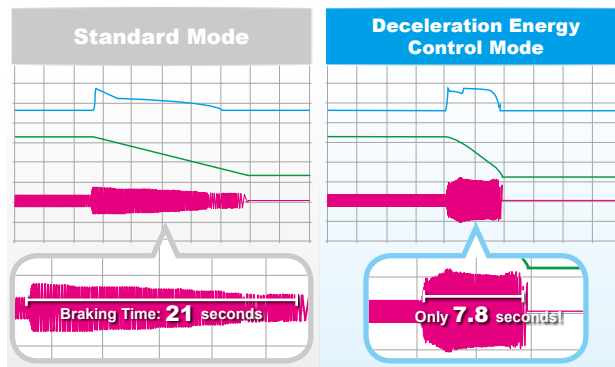
Deceleration Energy Backup (DEB)

Controls the motor deceleration to a stop when an unexpected power shut-down occurs to prevent mechanical damage. When power resumes, the motor will accelerate to its previous speed



Enhanced Braking Capability

The Deceleration Energy Control Mode shortens braking time by adjusting the motor speed and current, and replaces the need for braking resistors



* Actual deceleration performance varies upon different system loads

Strong System Support

Pump Control

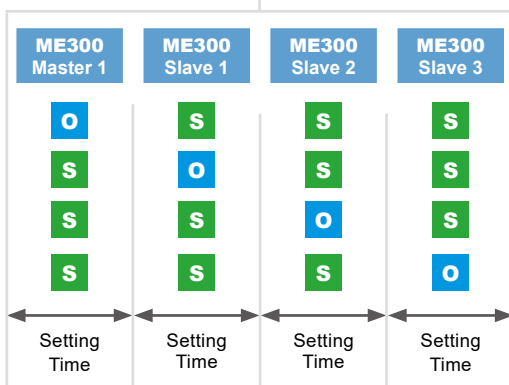
- Sleep Mode & Leakage Detection: When the system is at constant pressure, the ME300 will enter / stay in sleep mode to prevent frequent starting and stopping (Proper parameter settings required)
- Dry-run Detection: When the water supply is off, the ME300 will decelerate to stop to protect pump from dry-run

Multi-pump Control

- Alternate Operation: Alternates pump operation in cycles. Cycle can be set by hours, days or weeks
- Constant Pressure Mode: Provides consistent energy-efficient water supply by adjusting operating pump quantities based on real-time demands

ME300 Status o Operating s Standby

Alternate Operation

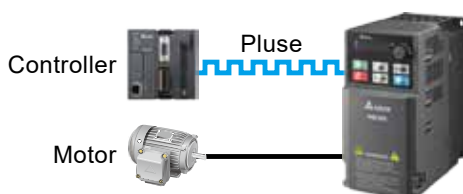


Constant Pressure Mode



Pulse Input

Supports single pulse and PWM input (10 kHz) from controller as frequency command



High Overload Capability

- Normal duty: rated current 120% for 60 seconds; 150% for 3 seconds
- Heavy duty: rated current 150% for 60 seconds; 200% for 3 seconds

Built-in Modbus Communication

Built-in RS-485 (Modbus) communication

Built-in Braking Chopper

Larger braking torque capability with an additional braking resistor

Common DC Bus

DC ± terminals for common DC bus wiring; the drives share the regeneration power during deceleration to save energy and the braking resistor

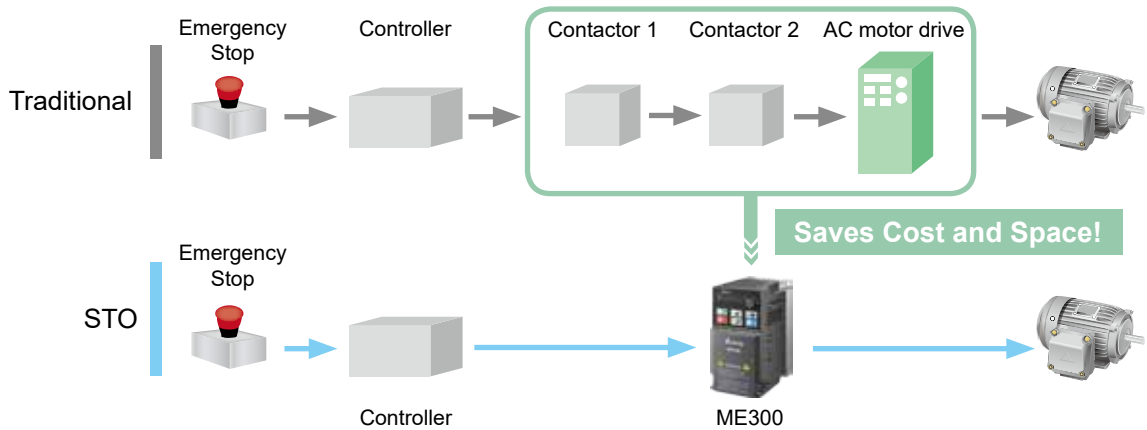
Stable, Safe and Reliable

Safe Torque Off

Compliant with:

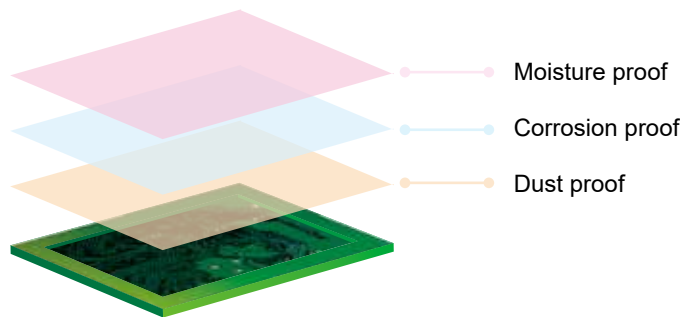
- ▶ ISO 13849-1:2015 Category 3 PL d
- ▶ EN 61508 SIL2

- ▶ EN 60204-1 Category 0
- ▶ EN 62061 SIL CL 2



PCB Coating

100% PCB coating (IEC 60721-3-3 class 3C2 standard) ensures drive operation stability and safety in critical environments



NEMA 1 Kit (Optional)

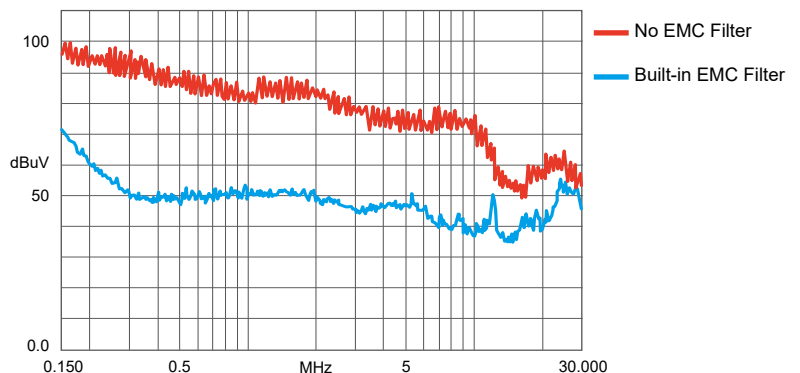
Provides NEMA 1 kit to prevent dust and other particles from entering the drive and avoids risk from electric shock. It is suitable for applications under critical conditions



Built-in EMC Filter

Built-in Class A (C2)* standard EMC filter saves additional procurement cost and wiring time, and provides more cabinet space for other devices to use

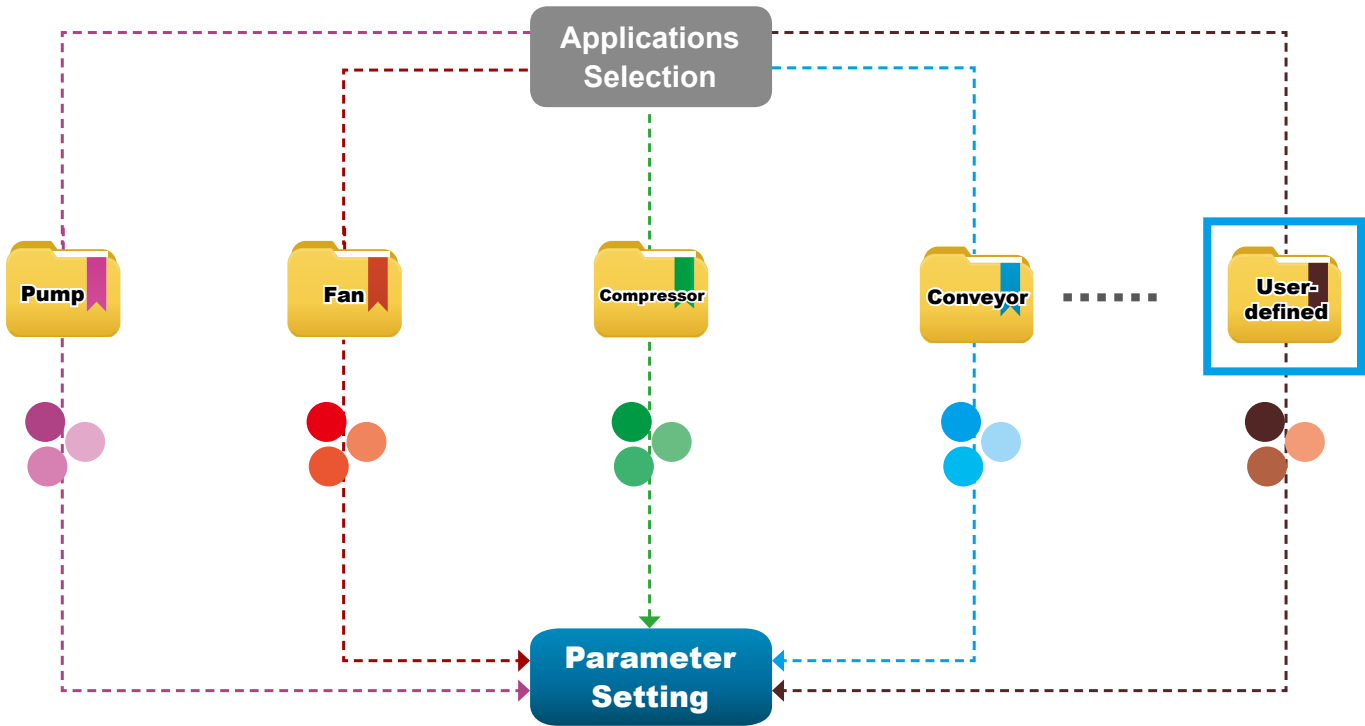
*Class A (C3) for 400V models



Easy Set Up

Application Groups (Macro)

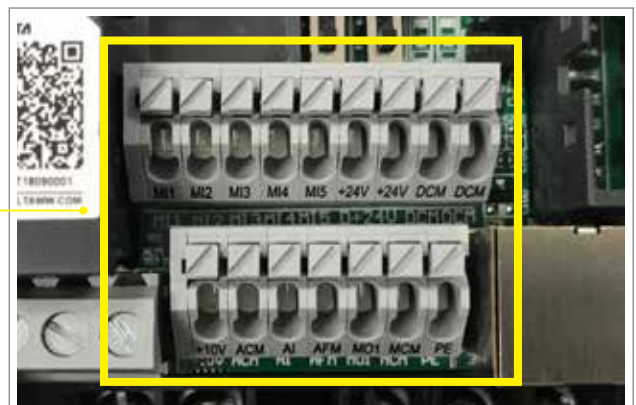
- Simplifies the parameter setting process by grouping the parameters for different applications to use
- Users can establish own parameter group for different customer or equipment
- User-defined parameter values can be retained when resetting to default



Screwless Wiring of Control Terminal

Spring clamp terminal blocks provide fast and easy wiring

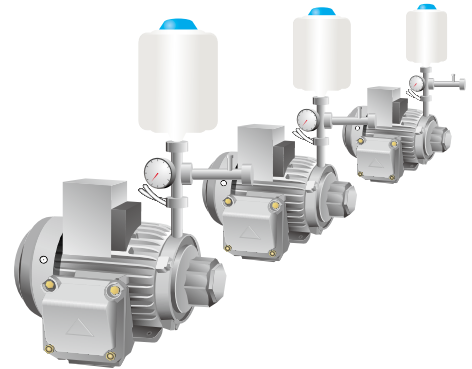
Saves wiring time



Wide Range of Applications

Single / Multi-pumps

- Built-in PID feedback control, no additional PID controller required
- Supports multi-pumps (constant pressure) and alternate operation
- Equipped with liquid leakage detection function and sleep mode
- Displays actual and target value at the same time for easy operation
- Pump or self-defined parameter groups for easy setting
- Wide range voltage input for various types of pumps and areas



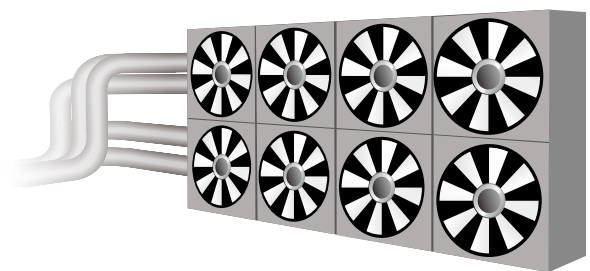
Conveyors

- VR knob for easy adjustment
- High starting torque: up to 200% at 0.5 Hz
- Outstanding acceleration / deceleration performance improves production efficiency
- Built-in braking chopper saves space and purchasing costs
- 2 sets of motor parameters for more flexibility
- Compact design for space savings
- STO function enhances system safety



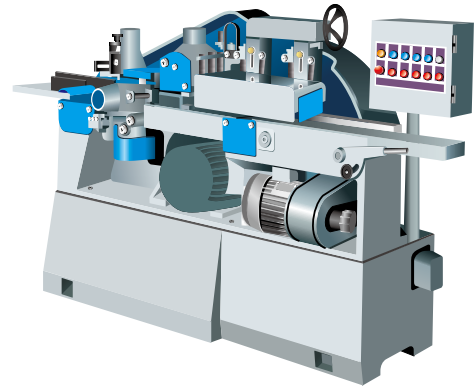
Fans

- Supports both induction motor and permanent motor (IPM/SPM)
- VR knob for easy adjustment
- Speed search function allows motor start without stopping
- Optimized hardware layout and anti-pollution design resist dust and fiber
- Compact design for space savings



Woodworking Machines

- Outstanding acceleration / deceleration performance improves production efficiency
- STO function enhances system safety
- Built-in EMC filter effectively reduces electromagnetic interference
- Compact in size and weight, easy to install and maintain



Packaging Machines

- Compact design provides more cabinet space
- STO function enhances system safety
- Built-in braking chopper saves system construction cost
- Built-in RS-485 (Modbus)
- Supports high speed pulse and PWM input as frequency command to improve control precision



Textile Machines

- Optional NEMA1 kit provides excellent protection in environment with dust, fiber and moisture
- Improved heatsink design prevents fiber clogging the air way; modular design of fan is easy to clean and provides longer lifetime
- Improved braking capability shortens the deceleration to stop time, suitable for sudden stop requirements
- Deceleration to stop function protects the equipment from damage when sudden power failure occurs
- STO function enhances system safety
- Supports both induction motors and permanent motors (IPM/SPM)



Specifications

Product Specifications

Single-phase
115V

| Models without built-in EMC filter | | | | | | |
|------------------------------------|-------------|--|-----|-------------|------|-----|
| Frame | | A | | C | | |
| Applicable Motor Output (kW) | | 0.1 | 0.2 | 0.4 | 0.75 | |
| Applicable Motor Output (HP) | | 1/8 | 1/4 | 1/2 | 1 | |
| Inverter Output | Heavy Duty | Rated Output Current (A) | 0.8 | 1.6 | 2.5 | 4.8 |
| | Normal Duty | Rated Output Current (A) | 1.0 | 1.8 | 2.7 | 5.5 |
| Input Voltage / Frequency | | Single-phase AC, 100V~120V (-15% ~ + 10%), 50 / 60Hz | | | | |
| Carrier Frequency (kHz) | | 2 ~ 15 (Default 4) | | | | |
| Brake Chopper | | Built-in | | | | |
| Cooling Method | | Natural air cooling | | Fan cooling | | |
| Size: W × H (mm) | | 68 × 128 | | 87 × 157 | | |
| Size: D (mm) | | 78 | 107 | 136 | | |

Single-phase
230V

| Models with built-in EMC filter | | | | | | | | |
|------------------------------------|-------------|--|-----|-------------|-------------|-----|-----|------|
| Frame | | B | | | C | | | |
| Applicable Motor Output (kW) | | 0.1 | 0.2 | 0.4 | 0.75 | 1.5 | 2.2 | |
| Applicable Motor Output (HP) | | 1/8 | 1/4 | 1/2 | 1 | 2 | 3 | |
| Inverter Output | Heavy Duty | Rated Output Current (A) | 0.8 | 1.6 | 2.8 | 4.8 | 7.5 | 11 |
| | Normal Duty | Rated Output Current (A) | 1.0 | 1.8 | 3.2 | 5 | 8.5 | 12.5 |
| Input Voltage / Frequency | | Single-phase AC, 200V~240V (-15% ~ + 10%), 50 / 60Hz | | | | | | |
| Carrier Frequency (kHz) | | 2 ~ 15 (Default 4) | | | | | | |
| Brake Chopper | | Built-in | | | | | | |
| Cooling Method | | Natural air cooling | | Fan cooling | | | | |
| Size: W x H (mm) | | 72 x 142 | | | 87 x 157 | | | |
| Size: D (mm) | | 143 | | | 163 | | | |
| Models without built-in EMC filter | | | | | | | | |
| Frame | | A | | B | C | | | |
| Cooling Method | | Natural air cooling | | | Fan cooling | | | |
| Size: W × H (mm) | | 68 × 128 | | 72 × 142 | 87 × 157 | | | |
| Size: D (mm) | | 78 | 107 | 127 | 136 | | | |

3-phase
230 V

| Models without built-in EMC filter | | | | | | | | | | |
|------------------------------------|-------------|--------------------------|---|-----|-----|-------------|----------|------|------|-----|
| Frame | | | A1 | | B | C | | D | | |
| Applicable Motor Output (kW) | | | 0.1 | 0.2 | 0.4 | 0.75 | 1.5 | 2.2 | 3.7 | 5.5 |
| Applicable Motor Output (HP) | | | 1/8 | 1/4 | 1/2 | 1 | 2 | 3 | 5 | 7.5 |
| Inverter Output | Heavy Duty | Rated Output Current (A) | 0.8 | 1.6 | 2.8 | 4.8 | 7.5 | 11 | 17 | 25 |
| | Normal Duty | Rated Output Current (A) | 1.0 | 1.8 | 3.2 | 5.0 | 8.0 | 12.5 | 19.5 | 27 |
| Input Voltage / Frequency | | | Three-phase AC, 200V~240V (-15% ~ + 10%), 50 / 60Hz | | | | | | | |
| Carrier Frequency (kHz) | | | 2 ~ 15 (Default 4) | | | | | | | |
| Brake Chopper | | | Built-in | | | | | | | |
| Cooling Method | | | Natural air cooling | | | Fan cooling | | | | |
| Size: W × H (mm) | | | 68 × 128 | | | 72 × 142 | 87 × 157 | | | |
| Size: D (mm) | | | 78 | 92 | 125 | 127 | 136 | 138 | | |

3-phase
460 V

| Models with built-in EMC filter | | | | | | | | | |
|------------------------------------|-------------|--------------------------|---|------|----------|-------------|-----------|-----------|------|
| Frame | | | B3 | | C2 | | D2 | | |
| Applicable Motor Output (kW) | | | 0.4 | 0.75 | 1.5 | 2.2 | 3.7 | 5.5 | 7.5 |
| Applicable Motor Output (HP) | | | 1/2 | 1 | 2 | 3 | 5 | 7.5 | 10 |
| Inverter Output | Heavy Duty | Rated Output Current (A) | 1.5 | 2.7 | 4.2 | 5.5 | 9 | 13 | 17 |
| | Normal Duty | Rated Output Current (A) | 1.8 | 3 | 4.6 | 6.5 | 10.5 | 15.7 | 20.5 |
| Input Voltage / Frequency | | | Three-phase AC, 380V~480V (-15% ~ + 10%), 50 / 60Hz | | | | | | |
| Carrier Frequency (kHz) | | | 2 ~ 15 (Default 4) | | | | | | |
| Brake Chopper | | | Built-in | | | | | | |
| Cooling Method | | | Fan cooling | | | | | | |
| Size: W × H (mm) | | | 72 × 142 | | 87 × 157 | | 109 × 207 | | |
| Size: D (mm) | | | 143 | | 163 | | 171 | | |
| Models without built-in EMC filter | | | | | | | | | |
| Frame | | | A | | B | C | | D | |
| Cooling Method | | | Natural air cooling | | | Fan cooling | | | |
| Size: W×H (mm) | | | 68 × 128 | | 72 × 142 | 87 × 157 | | 109 × 207 | |
| Size: D (mm) | | | 113 | 127 | 127 | 136 | | 138 | |

Specifications

General Specifications and Accessories

| | | |
|----------------------|--------------------------|--|
| Control Functions | Control Methods | V/F, SVC |
| | Applicant Motors | Induction motor (IM), interior permanent magnet (IPM) motor, surface permanent magnet (SPM) motor |
| | Max. Output Frequency | 0.00 ~ 599.00 Hz |
| | Starting Torque* | 150%/3 Hz (V/f, SVC control for IM, heavy duty) 100%/(1/20 of motor rated frequency) (SVC control for PM, heavy duty) |
| | Speed Control Range* | 1 : 50 (V/f, SVC control for IM, heavy duty) 1 : 20 (SVC control for PM, heavy duty) |
| | Overload Tolerance | Normal Duty (ND): 120% of rated output current for 60 seconds; 150% of rated output current for 3 seconds Heavy Duty (HD): 150% of rated output current for 60 seconds; 200% of rated output current for 3 seconds |
| | Frequency Setting Signal | 0 ~ 10V / 4(0) 20mA, 1pulse input (10kHz) |
| | Main Control Functions | Multiple motor switches (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 (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, simple positioning function, Modbus integrated as standard |
| Protection Functions | Motor Protection | Overcurrent protection, overvoltage protection, overload protection, over-temperature protection, phase failure protection |
| | Stall Prevention | During acceleration, deceleration and running independently |
| Certifications | | UL, CE, RoHS, RCM, TUV, REACH, KC |

*Control accuracy may vary depending on the environment, application conditions, different motors or encoder. For details, please contact our company or your local distributor.

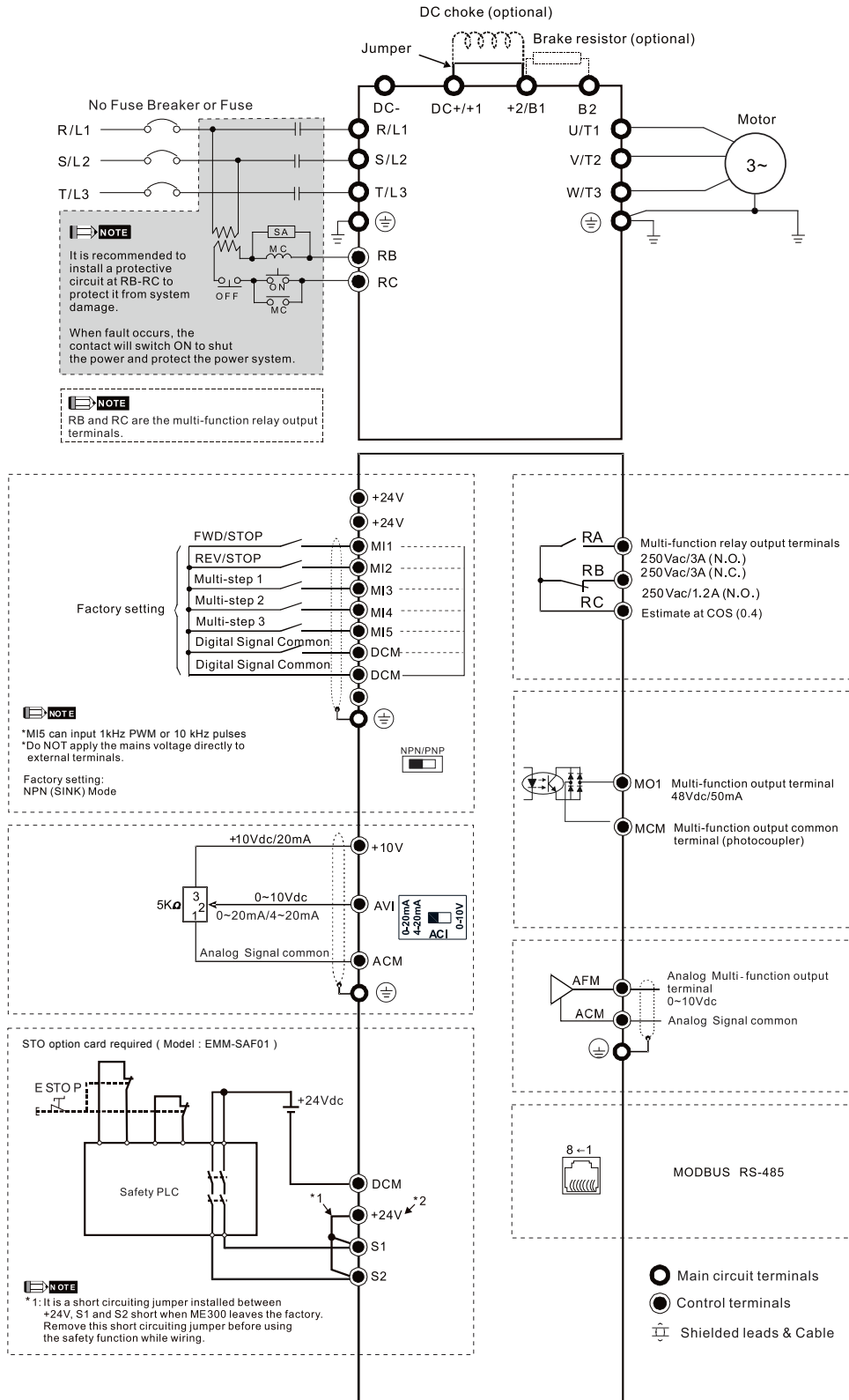
Operating Environment

| | | | | |
|-----------------------|---|---|----------------------------|--|
| Operating Environment | Installation Location | IEC60364-1/IEC60664-1 Pollution degree 2, Indoor use only | | |
| | Ambient Temperature | Operation | IP20/UL Open Type | -20 ~ 50 °C -20 ~ 60 °C (derating required) |
| | | | NEMA 1/UL Type 1 | -20 ~ 40 °C |
| | | Storage | Zero stacking installation | -20 ~ 50 °C (derating required) |
| | | | | -40 ~ 85 °C |
| | Transportation | | -20 ~ 70 °C | |
| | | Rated Humidity | Operation | Max. 90% |
| | Storage/Transportation | | Max. 95% | |
| | Air Pressure | Operation | 86 ~ 106 kPa | |
| | | Storage/Transportation | 70 ~ 106 kPa | |
| Pollution Level | Compliance to IEC60721-3-3, 3C2 | | | |
| Altitude | An altitude of 0 ~ 1000 m for normal operation (derating is required for installation at an altitude above 1000 m) | | | |
| Vibration | | Compliant to IEC 60068-2-6 | | |
| Shock | | Compliant to IEC/EN 60068-2-27 | | |

* Please refer to ME300 user manual for more details

Wiring

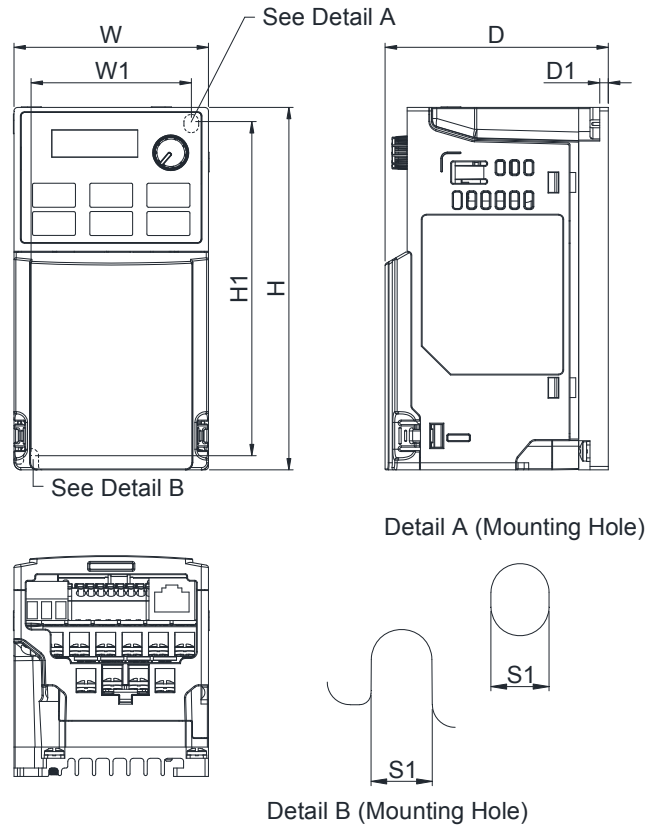
Input: Single-phase / 3-phase power



Specifications

Dimensions

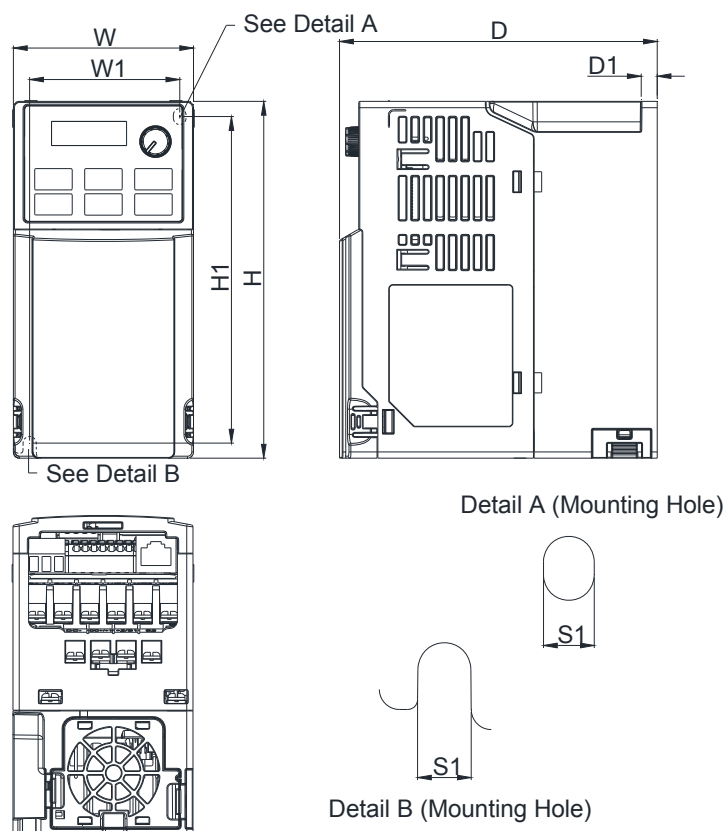
Frame A



| Model | Frame A1 | Frame A2 | Frame A3 | Frame A4 | Frame A5 | Frame A6 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
| VFD0A8ME11ANNA | VFD2A8ME23ANNA | VFD2A5ME11ANNA | VFD1A5ME43ANNA | VFD4A8ME23ANNA | VFD2A7ME43ANNA | |
| VFD0A8ME11ANSAA | VFD2A8ME23ANSAA | VFD2A5ME11ANSAA | VFD1A5ME43ANSAA | VFD4A8ME23ANSAA | VFD2A7ME43ANSAA | |
| VFD0A8ME21ANNA | | VFD2A8ME21ANNA | | | | |
| VFD0A8ME21ANSAA | | VFD2A8ME21ANSAA | | | | |
| VFD0A8ME23ANNA | | | | | | |
| VFD0A8ME23ANSAA | | | | | | |
| VFD1A6ME11ANNA | | | | | | |
| VFD1A6ME11ANSAA | | | | | | |
| VFD1A6ME21ANNA | | | | | | |
| VFD1A6ME21ANSAA | | | | | | |
| VFD1A6ME23ANNA | | | | | | |
| VFD1A6ME23ANSAA | | | | | | |

| Frame | W | H | D | W1 | H1 | D1 | S1 |
|-------|------|------|-------|-------|------|-------|------|
| A1 | mm | 68.0 | 128.0 | 78.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 3.07 | 2.20 | 4.65 | 0.12 |
| A2 | mm | 68.0 | 128.0 | 92.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 3.62 | 2.20 | 4.65 | 0.12 |
| A3 | mm | 68.0 | 128.0 | 107.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 4.21 | 2.20 | 4.65 | 0.12 |
| A4 | mm | 68.0 | 128.0 | 113.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 4.45 | 2.20 | 4.65 | 0.12 |
| A5 | mm | 68.0 | 128.0 | 125.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 4.92 | 2.20 | 4.65 | 0.12 |
| A6 | mm | 68.0 | 128.0 | 127.0 | 56.0 | 118.0 | 3.0 |
| | inch | 2.68 | 5.04 | 5.00 | 2.20 | 4.65 | 0.12 |

Frame B



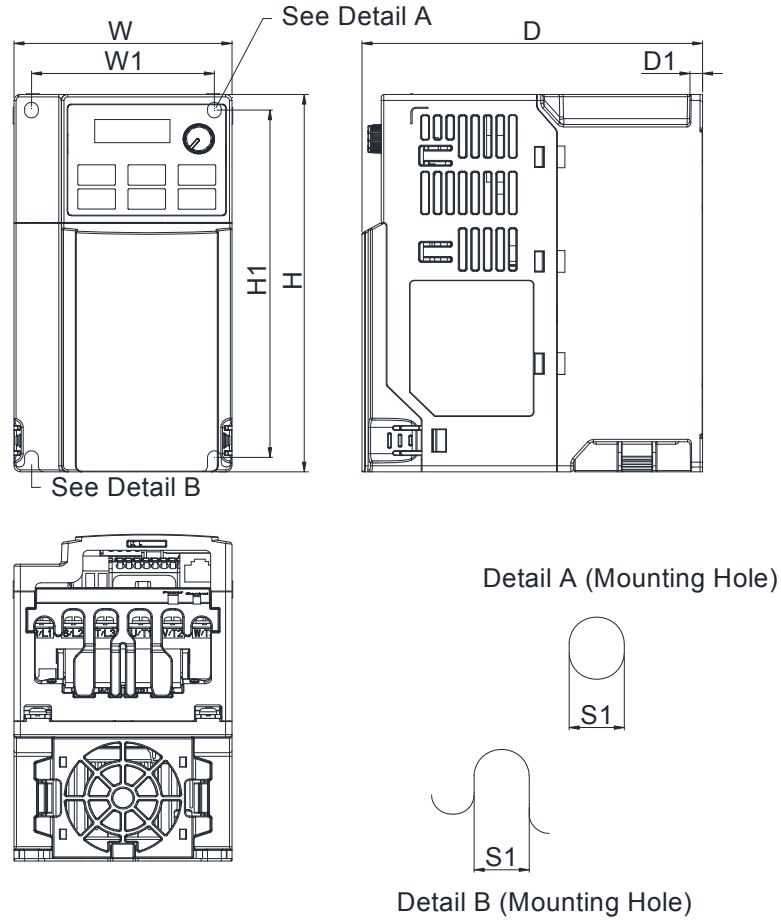
| Model | Frame B1 | Frame B2 | Frame B3 |
|-----------------|-----------------|----------------|----------|
| VFD7A5ME23ANNA | VFD4A8ME21ANNA | VFD0A8ME21AFNA | |
| VFD7A5ME23ANSAA | VFD4A8ME21ANSAA | VFD1A6ME21AFNA | |
| VFD4A2ME43ANNA | | VFD2A8ME21AFNA | |
| VFD4A2ME43ANSAA | | VFD4A8ME21AFNA | |
| | | VFD1A5ME43AFNA | |
| | | VFD2A7ME43AFNA | |
| | | VFD4A2ME43AFNA | |

| Frame | | W | H | D | W1 | H1 | D1 | S1 |
|-------|------|------|-------|-------|------|-------|------|------|
| B1 | mm | 72.0 | 142.0 | 127.0 | 60.0 | 130.0 | 6.4 | 5.2 |
| | inch | 2.83 | 5.59 | 5.00 | 2.36 | 5.12 | 0.25 | 0.20 |
| Frame | | W | H | D | W1 | H1 | D1 | S1 |
| B2 | mm | 72.0 | 142.0 | 127.0 | 60.0 | 130.0 | 3.0 | 5.2 |
| | inch | 2.83 | 5.59 | 5.00 | 2.36 | 5.12 | 0.12 | 0.20 |
| Frame | | W | H | D | W1 | H1 | D1 | S1 |
| B3 | mm | 72.0 | 142.0 | 143.0 | 60.0 | 130.0 | 4.3 | 5.2 |
| | inch | 2.83 | 5.59 | 5.63 | 2.36 | 5.12 | 0.17 | 0.20 |

Specifications

Dimensions

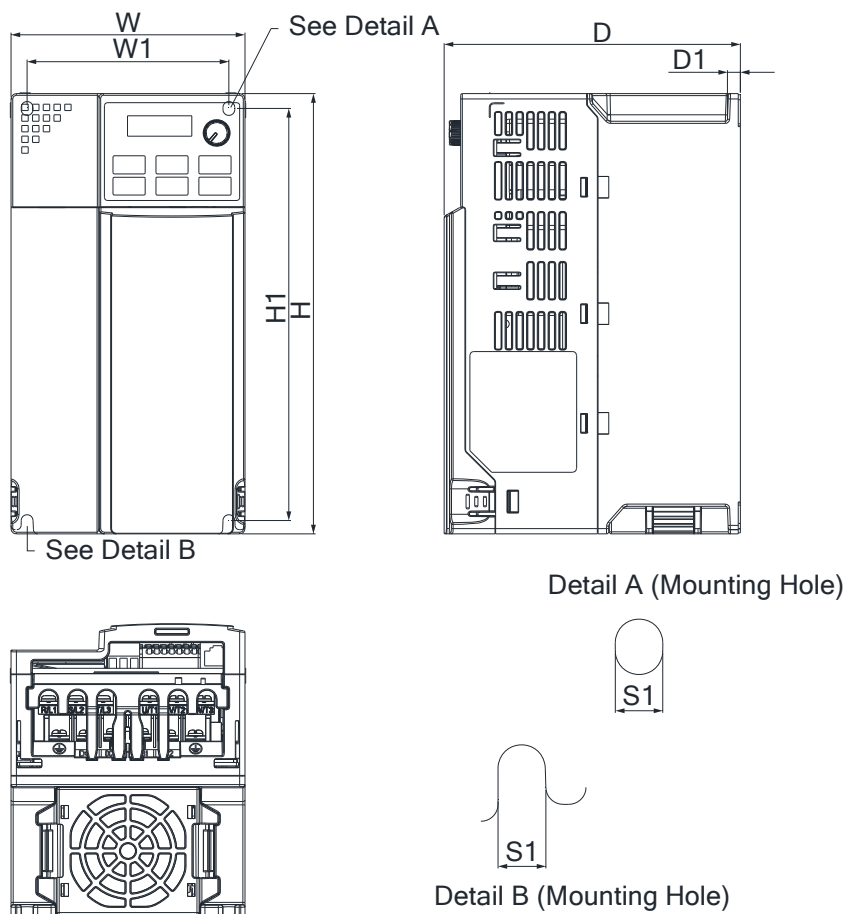
Frame C



| Model | Frame C1 | Frame C2 |
|-----------------|-----------------|----------|
| VFD4A8ME11ANNAA | VFD7A5ME21AFNAA | |
| VFD4A8ME11ANSAA | VFD11AME21AFNAA | |
| VFD7A5ME21ANNAA | VFD5A5ME43AFNAA | |
| VFD7A5ME21ANSAA | VFD9A0ME43AFNAA | |
| VFD11AME21ANNAA | | |
| VFD11AME21ANSAA | | |
| VFD11AME23ANNAA | | |
| VFD11AME23ANSAA | | |
| VFD17AME23ANNAA | | |
| VFD17AME23ANSAA | | |
| VFD5A5ME43ANNAA | | |
| VFD5A5ME43ANSAA | | |
| VFD9A0ME43ANNAA | | |
| VFD9A0ME43ANSAA | | |

| Frame | | W | H | D | W1 | H1 | D1 | S1 |
|-------|------|------|-------|-------|------|-------|------|------|
| C1 | mm | 87.0 | 157.0 | 136.0 | 73.0 | 144.5 | 5.0 | 5.5 |
| | inch | 3.43 | 6.18 | 5.35 | 2.87 | 5.69 | 0.20 | 0.22 |
| Frame | | W | H | D | W1 | H1 | D1 | S1 |
| C2 | mm | 87.0 | 157.0 | 163.0 | 73.0 | 144.5 | 5.0 | 5.5 |
| | inch | 3.43 | 6.18 | 6.42 | 2.87 | 5.69 | 0.20 | 0.22 |

Frame D



Model

Frame D1

VFD25AME23ANNAA
 VFD25AME23ANSAA
 VFD13AME43ANNAA
 VFD13AME43ANSAA
 VFD17AME43ANNAA
 VFD17AME43ANSAA

Frame D2

VFD13AME43AFNAA
 VFD17AME43AFNAA

| Frame | | W | H | D | W1 | H1 | D1 | S1 |
|-------|------|-------|-------|-------|------|-------|------|------|
| D1 | mm | 109.0 | 207.0 | 138.0 | 94.0 | 193.8 | 6.0 | 5.5 |
| | inch | 4.29 | 8.15 | 5.43 | 3.70 | 7.63 | 0.24 | 0.22 |
| Frame | | W | H | D | W1 | H1 | D1 | S1 |
| D2 | mm | 109.0 | 207.0 | 171.0 | 94.0 | 193.8 | 6.0 | 5.5 |
| | inch | 4.29 | 8.15 | 6.73 | 3.70 | 7.63 | 0.24 | 0.22 |

Specifications

Accessories

▪ RJ45 Extension Cable for Digital Keypad



| Title | Part No. | L | |
|-------|---------------|-------|-------|
| | | mm | inch |
| 1 | UC-CMC003-01A | 300 | 11.8 |
| 2 | UC-CMC005-01A | 500 | 19.6 |
| 3 | UC-CMC010-01A | 1000 | 39 |
| 4 | UC-CMC015-01A | 1500 | 59 |
| 5 | UC-CMC020-01A | 2000 | 78.7 |
| 6 | UC-CMC030-01A | 3000 | 118.1 |
| 7 | UC-CMC050-01A | 5000 | 196.8 |
| 8 | UC-CMC100-01A | 10000 | 393.7 |
| 9 | UC-CMC200-01A | 20000 | 787.4 |

▪ Digital Keypads

KPC-CC01

- Highly illuminated LCD display
- Supports Modbus RS-485
- Languages: Traditional Chinese, Simplified Chinese, English



KPC-CE01

- RJ45 (socket), RS-485 interface



Model Name

VFD 1A5 ME 43 A N N A A

Variable Frequency Drive

Rated Output Current
Under Heavy Duty Mode (150% 60 seconds)

Series Name
ME : Basic Compact Drive ME300

Input Voltage
11 : 115V single-phase 23 : 230V three-phase
21 : 230V single-phase 43 : 460V three-phase

IP Level
A : IP20

Version

Model Type
A : Standard model

Safe Torque Off (STO)
N : None
S : STO Model

EMC Filter
N : None
F : Built-in EMC Filter

Ordering Information

| Power Range | | | Frame Size | Model Name | Standard Models (0 ~ 599 Hz) | |
|--------------------------------|------|----------------------------|------------|-----------------|------------------------------|--------------|
| Max. Applicable Motor Capacity | | Drive Rated Output Current | | | Built-in EMC Filter | Built-in STO |
| [HP] | [kW] | [A] | | | | |
| 115V/single-phase | | | | | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME11ANNAA | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME11ANSAA | | V |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME11ANNAA | | |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME11ANSAA | | V |
| 1/2 | 0.4 | 2.5 | A | VFD2A5ME11ANNAA | | |
| 1/2 | 0.4 | 2.5 | A | VFD2A5ME11ANSAA | | V |
| 1 | 0.75 | 4.8 | C | VFD4A8ME11ANNAA | | |
| 1 | 0.75 | 4.8 | C | VFD4A8ME11ANSAA | | V |
| 230V/single-phase | | | | | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME21ANNAA | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME21ANSAA | | V |
| 1/8 | 0.1 | 0.8 | B | VFD0A8ME21AFNAA | V | |
| 1/8 | 0.1 | 0.8 | B | VFD0A8ME21AFSAA | V | V |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME21ANNAA | | |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME21ANSAA | | V |
| 1/4 | 0.2 | 1.6 | B | VFD1A6ME21AFNAA | V | |
| 1/4 | 0.2 | 1.6 | B | VFD1A6ME21AFSAA | V | V |
| 1/2 | 0.4 | 2.8 | A | VFD2A8ME21ANNAA | | |
| 1/2 | 0.4 | 2.8 | A | VFD2A8ME21ANSAA | | V |
| 1/2 | 0.4 | 2.8 | B | VFD2A8ME21AFNAA | V | |
| 1/2 | 0.4 | 2.8 | B | VFD2A8ME21AFSAA | V | V |
| 1 | 0.75 | 4.8 | B | VFD4A8ME21ANNAA | | |
| 1 | 0.75 | 4.8 | B | VFD4A8ME21ANSAA | | V |
| 1 | 0.75 | 4.8 | B | VFD4A8ME21AFNAA | V | |
| 1 | 0.75 | 4.8 | B | VFD4A8ME21AFSAA | V | V |
| 2 | 1.5 | 7.5 | C | VFD7A5ME21ANNAA | | |
| 2 | 1.5 | 7.5 | C | VFD7A5ME21ANSAA | | V |
| 2 | 1.5 | 7.5 | C | VFD7A5ME21AFNAA | V | |
| 2 | 1.5 | 7.5 | C | VFD7A5ME21AFSAA | V | V |
| 3 | 2.2 | 11.0 | C | VFD11AME21ANNAA | | |
| 3 | 2.2 | 11.0 | C | VFD11AME21ANSAA | | V |
| 3 | 2.2 | 11.0 | C | VFD11AME21AFNAA | V | |
| 3 | 2.2 | 11.0 | C | VFD11AME21AFSAA | V | V |
| 230V/three-phase | | | | | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME23ANNAA | | |
| 1/8 | 0.1 | 0.8 | A | VFD0A8ME23ANSAA | | V |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME23ANNAA | | |
| 1/4 | 0.2 | 1.6 | A | VFD1A6ME23ANSAA | | V |
| 1/2 | 0.4 | 2.8 | A | VFD2A8ME23ANNAA | | |
| 1/2 | 0.4 | 2.8 | A | VFD2A8ME23ANSAA | | V |
| 1 | 0.75 | 4.8 | A | VFD4A8ME23ANNAA | | |

Specifications

Ordering Information

| Power Range | | | Frame Size | Model Name | Standard Models (0 ~ 599 Hz) | |
|--------------------------------|------|----------------------------|------------|-----------------|------------------------------|--------------|
| Max. Applicable Motor Capacity | | Drive Rated Output Current | | | Built-in EMC Filter | Built-in STO |
| [HP] | [kW] | [A] | | | | |
| 230V / three-phase | | | | | | |
| 1 | 0.75 | 4.8 | A | VFD4A8ME23ANSAA | | V |
| 2 | 1.5 | 7.5 | B | VFD7A5ME23ANNAA | | |
| 2 | 1.5 | 7.5 | B | VFD7A5ME23ANSAA | | V |
| 3 | 2.2 | 11.0 | C | VFD11AME23ANNAA | | |
| 3 | 2.2 | 11.0 | C | VFD11AME23ANSAA | | V |
| 5 | 3.7 | 17.0 | C | VFD17AME23ANNAA | | |
| 5 | 3.7 | 17.0 | C | VFD17AME23ANSAA | | V |
| 7.5 | 5.5 | 25.0 | D | VFD25AME23ANNAA | | |
| 7.5 | 5.5 | 25.0 | D | VFD25AME23ANSAA | | V |
| 460V / three-phase | | | | | | |
| 1/2 | 0.4 | 1.5 | A | VFD1A5ME43ANNAA | | |
| 1/2 | 0.4 | 1.5 | A | VFD1A5ME43ANSAA | | V |
| 1/2 | 0.4 | 1.5 | B | VFD1A5ME43AFNAA | V | |
| 1/2 | 0.4 | 1.5 | B | VFD1A5ME43AFSAA | V | V |
| 1 | 0.75 | 2.7 | A | VFD2A7ME43ANNAA | | |
| 1 | 0.75 | 2.7 | A | VFD2A7ME43ANSAA | | V |
| 1 | 0.75 | 2.7 | B | VFD2A7ME43AFNAA | V | |
| 1 | 0.75 | 2.7 | B | VFD2A7ME43AFSAA | V | V |
| 2 | 1.5 | 4.2 | B | VFD4A2ME43ANNAA | | |
| 2 | 1.5 | 4.2 | B | VFD4A2ME43ANSAA | | V |
| 2 | 1.5 | 4.2 | B | VFD4A2ME43AFNAA | V | |
| 2 | 1.5 | 4.2 | B | VFD4A2ME43AFSAA | V | V |
| 3 | 2.2 | 5.5 | C | VFD5A5ME43ANNAA | | |
| 3 | 2.2 | 5.5 | C | VFD5A5ME43ANSAA | | V |
| 3 | 2.2 | 5.5 | C | VFD5A5ME43AFNAA | V | |
| 3 | 2.2 | 5.5 | C | VFD5A5ME43AFSAA | V | V |
| 5 | 3.7 | 9.0 | C | VFD9A0ME43ANNAA | | |
| 5 | 3.7 | 9.0 | C | VFD9A0ME43ANSAA | | V |
| 5 | 3.7 | 9.0 | C | VFD9A0ME43AFNAA | V | |
| 5 | 3.7 | 9.0 | C | VFD9A0ME43AFSAA | V | V |
| 7.5 | 5.5 | 13.0 | D | VFD13AME43ANNAA | | |
| 7.5 | 5.5 | 13.0 | D | VFD13AME43ANSAA | | V |
| 7.5 | 5.5 | 13.0 | D | VFD13AME43AFNAA | V | |
| 7.5 | 5.5 | 13.0 | D | VFD13AME43AFSAA | V | V |
| 10 | 7.5 | 17.0 | D | VFD17AME43ANNAA | | |
| 10 | 7.5 | 17.0 | D | VFD17AME43ANSAA | | V |
| 10 | 7.5 | 17.0 | D | VFD17AME43AFNAA | V | |
| 10 | 7.5 | 17.0 | D | VFD17AME43AFSAA | V | V |





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