GD28 Series Flexible General-Purpose VFD









INVT (Shenzhen INVT Electric Co., Ltd) has been concentrating on industry automation and energy power since its foundation in 2002 and is committed to "Providing the best product and service to allow customers more competitiveness". INVT goes public in 2010 and is the first A-share listed company (002334) in Shenzhen Stock Exchange in the industry. At present, INVT owns 15 subsidiaries and more than 4500 employees, over 40 branches, forming a sales network covering more than 100 overseas countries and regions.

INVT has been awarded as the Key High-tech Enterprise of National Torch Plan based on mastering of key technologies in power electronics, auto control and IT. With business covering industry automation, electric vehicle, network power and rail transit, INVT has established 10 R&D centers nationwide, boasts more than 1400 patents and owns the first lab in the industry awarded ACT qualification from TÜV SÜD, UL-WTDP and CNAS National Lab. The industrial parks in Shenzhen and Suzhou aim to provide customers with advanced integrated product development design management, comprehensive product R&D test and auto informational production. The worldwide INVT branches and warranty service centers are ready to offer customers all-around back-ups including professional solutions, technical trainings and service support.

In the next decade, INVT will continue to take "Sincere Virtuous, Professional Aspiring" as our business philosophy, enhance core business sectors including industrial automation, electric vehicle, network power and rail transit based on the three major technologies in industry automation and energy power fields, and strive to become a leading, responsible and harmonic international professional group armed with proper product structure, leading technologies, efficient management, robust profitability and superior competitiveness.



GD28 Series

Flexible General-Purpose VFD

GD28 series is a flexible general-purpose VFD that integrates multiple advantages to provide an excellent solution for your motor drive systems. The product offers high safety and reliability, a compact design, excellent performance, rich functionality, and ease of use. It integrates an EMC filter, safety functions, and a Type-C debugging interface, while supporting energy-saving control and multiple fieldbus communication options. It is widely applicable across industries such as machine tools, textiles, printing and packaging, food processing, lithium battery manufacturing, logistics, 3C electronics, rubber and plastics, cable production, HVAC, and more.



Powerful functions



Dual rating design

Light load: overload capacity is 110% of the rated output current for 60 seconds;

Heavy load: overload capacity is 150% of the rated output current for 60 seconds

Built-in braking unit

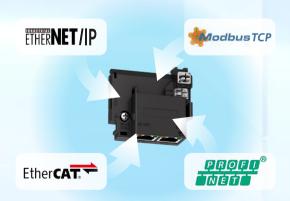
Built-in braking unit across the entire series, reducing the need for external braking devices, lowering costs, and simplifying system complexity

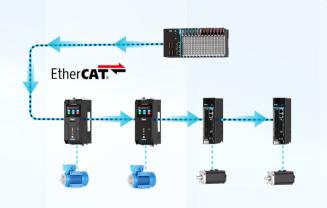
Motor temperature detection

Supports motor temperature monitoring through digital or analog inputs, compatible with various sensor types including PTC, PT100, PT1000, and KTY84, enabling real-time motor temperature monitoring to ensure safe running

Supporting multiple communications

Standard built-in Modbus RTU communication; optional all-in-one communication card integrating PROFINET, EtherCAT, EtherNet/IP, and Modbus TCP high-speed protocols, with protocol switching through software; integrated dual RJ45 interfaces for fast and reliable connections between devices using standard Ethernet cables





→ Extreme compactness and flexibility

Ultra-compact design

Compared with the previous generation, GD28 series features a richer set of built-in functions while achieving a more compact size, saving an average of 35% in installation space and significantly improving space utilization



Seamless side-by-side installation

In environments with ambient temperatures below 40° C, seamless side-by-side installation is supported, allowing for substantial reduction of cabinet space.



Simple and flexible installation

GD28 VFDs in frames A and B are small and compact, requiring only two screws for mounting, while also supporting DIN rail installation.

GD28 VFDs in frames C, D, and E support flange installation, with the heatsink mounted externally to achieve enhanced cooling performance.

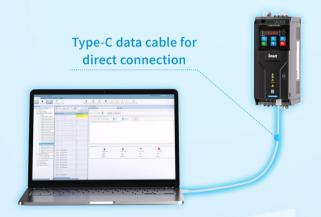






Built-in Type-C port

The product can be easily connected to a PC using a standard commercially available Type-C data cable, without the need for main power supply or a USB/ RS-485 adapter. This enables quick and convenient parameter setting, copying, and monitoring



Versatile keypad debugging options

Built-in simple LED membrane keypad Optional LED debugging keypad BOP-270 Optional LCD debugging keypad SOP-28





BOP-270

SOP-28

Screw-free terminal

Spring-loaded control terminals, implementing screw-free connection or disconnection, improving efficiency by 50%



Pluggable fan

Next-generation pluggable cooling fan, with errorproof design, ensuring quick installation or removal





Outstanding performance

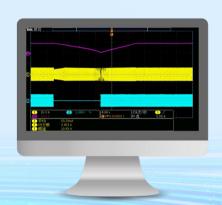
Multi-purpose application

Supports both induction motors and permanent magnet motors
Supports V/F and SVC control



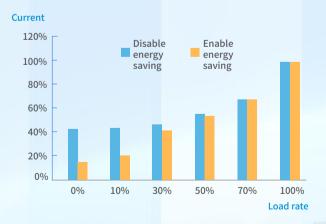
Transient power loss ride-through

In the event of a transient power drop, the VFD can continue to operate using the regenerated energy within the effective time frame, ensuring no downtime. Ideal for applications requiring continuous running



Energy-saving control

By enabling energy-saving control, the VFD operates with lower current under light-load conditions, further reducing equipment losses and helping customers save costs and improve efficiency



High torque, fast response

Sensorless vector control (SVC), delivers up to 200% high starting torque at 0.5Hz, suitable for various variable load conditions.

Torque control accuracy < 5%; Torque response time < 10ms

Speed tracking

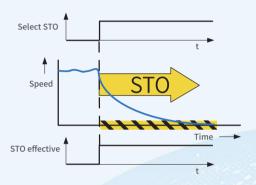
Quickly captures the motor speed for smooth and impact-free startup, improving restart efficiency, minimizing downtime loss, and ensuring continuous production



Built-in safety function

Safety torque off (STO*) function compliant with international safety standards, achieving SIL3 and PL e levels.

Prevents unintended VFD startup, making equipment maintenance and operation safer.



Built-in C3 filter

Compliant with IEC61800-3 C2 or C3 standards Effectively reduces electromagnetic interference, ensuring stable equipment running without the need for an external filter, delivering better cost efficiency.

Note: The 1PH VFDs meet the C2 standards, and the 3PH VFDs meet the C3 standards.



Robust environmental adaptability

Reliable full-load running at ambient temperatures up to 50°C .

Reinforced PCB coating meets 3C2 and 3S2 environmental standards.

Independent air duct design. Frame A features natural cooling design

Independent



Global products

Compliant with international standards such as CE* and UL* to meet global market requirements















^{*:} STO, UL, and CE certifications in progress · · ·



Typical applications

| Industry | Application | Customer benefits |
|---------------------------------|---|---|
| Plastic machinery | Extruder Blow molding machine Film blowing machine | Supports both light-duty and heavy-duty loads, meeting application requirements in extrusion and blow molding processes. Delivers high torque at low frequencies, ensuring reliable low-speed load start-up. Supports optional bus communication to enhance equipment productivity. Compact design significantly reduces control cabinet space. |
| Printing and packagingmachinery | Slitting machine Coating machine Laminating machine | ◆ Compact design allows seamless side-by-side installation, significantly reducing control cabinet space requirements. ◆ Integrated STO function (SIL3) ensures safety for both equipment and personnel. ◆ Integrated braking unit requires only the addition of a braking resistor, reducing overall system costs. ◆ Built-in RS485 (Modbus) communication, with optional expansion cards to support various bus protocols. ◆ Supports high-speed pulse frequency command input for enhanced control accuracy. ◆ Ensures continuous operation during grid disturbances and transient power loss, securing uninterrupted production. |
| Machine tool industry | CNC lathe CNC machining center CNC engraving machine Grinding machine | High starting torque and rapid torque response to meet the demands of metal cutting processes and enhance machining precision. Integrated braking unit requires only the addition of a braking resistor, reducing overall system costs. Supports STO function (SIL3) to ensure equipment and personnel safety. Optimized air duct design isolates the heat sink from electronic components, improving reliability in corrosive cutting fluid environments. |
| HVAC | Compressor Fan Pump | Built-in PID function ensures stable pressure and optimal operation. Speed tracking enables smooth restart by quickly detecting the motor's actual speed during coasting to stop and restart. Wide input voltage range, adaptable to different national standards and various applications. Support for permanent magnet motors to meet energy efficiency upgrade requirements. Integrated energy-saving algorithm effectively reduces energy consumption. |
| Food and beverage industry | Mixer Filling machine Conveyor Fan Pump | High starting torque ensures smooth and stable start-up at low speeds. Precise process control improves production speed and consistency in food processing. Support for STO function (SIL3) to ensure the safety of equipment and personnel. Compact design significantly reduces installation cabinet space. |
| Textile and dyeing industry | Spinning machine Weaving machine Dyeing machine Fan Pump | Excellent speed or torque control ensures high precision and superior quality of the final product. Optimized air duct design isolates the heat sink from electronic components, enhancing the reliability of the inverter under conditions of oil, dust, and high temperatures. Natural cooling design (0.75kW and below) prevents lint entry, and the detachable fan design allows for easy cleaning and replacement. Support for STO function (SIL3) to ensure the safety of both equipment and personnel. Support for permanent magnet motors to meet energy-saving upgrade requirements. Ensures continuous operation during grid disturbances and transient power loss, securing uninterrupted production. |



Naming rule

<u>GD28-2R2G-4</u>

(1

2

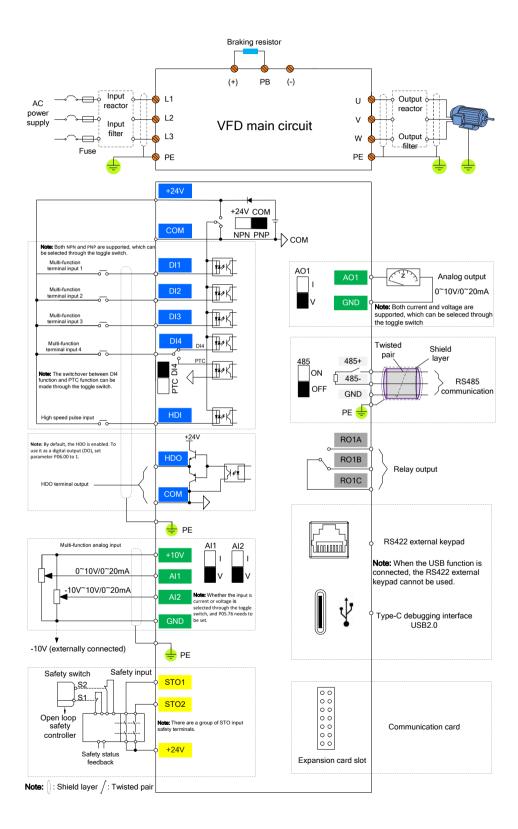
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| ① Product series | ② Rated heavy-load power | ③ Voltage class |
|-------------------|---------------------------------------|--|
| GD28: Goodrive 28 | 2R2: 2.2kW G: Constant torque load | S2: AC 1PH 200V ~ 240V 2: AC 3PH 200V ~ 240V 4: AC 3PH 380V ~ 480V |

Product model selection

| | | | Heavy load | | | Light load | |
|------------------|-------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| Product model | Frame | Output power (kW) | Input current (A) | Output current (A) | Output power (kW) | Input current (A) | Output current (A) |
| AC 1PH 200V~240V | / | | | | | | |
| GD28-0R2G-S2 | А | 0.2 | 3.9 | 1.5 | 0.4 | 5.2 | 2 |
| GD28-0R4G-S2 | А | 0.4 | 5.3 | 2.5 | 0.75 | 7.4 | 3.3 |
| GD28-0R7G-S2 | А | 0.75 | 8.8 | 4.2 | 1.1 | 11 | 5.1 |
| GD28-1R1G-S2 | В | 1.1 | 13.2 | 6.5 | 1.5 | 13.4 | 7.5 |
| GD28-1R5G-S2 | В | 1.5 | 14.2 | 7.5 | 2.2 | 18.8 | 9.8 |
| GD28-2R2G-S2 | В | 2.2 | 20.6 | 10 | 4 | 23.8 | 12.5 |
| GD28-004G-S2 | С | 4 | 32 | 16 | - | - | - |
| AC 3PH 200V~240V | V | | | | | | |
| GD28-0R2G-2 | А | 0.2 | 2.2 | 1.5 | 0.4 | 3.3 | 2 |
| GD28-0R4G-2 | Α | 0.4 | 4.1 | 2.5 | 0.75 | 5.6 | 3.3 |
| GD28-0R7G-2 | Α | 0.75 | 6.8 | 4.2 | 1.1 | 8.1 | 5.1 |
| GD28-1R1G-2 | В | 1.1 | 10.3 | 6.5 | 1.5 | 11.5 | 7.5 |
| GD28-1R5G-2 | В | 1.5 | 9.3 | 7.5 | 2.2 | 11.8 | 9.8 |
| GD28-2R2G-2 | В | 2.2 | 12 | 10 | 4 | 13.7 | 12.5 |
| GD28-004G-2 | С | 4 | 20 | 16 | 5.5 | 26 | 21 |
| GD28-5R5G-2 | С | 5.5 | 21.7 | 20 | 7.5 | 28 | 26 |
| GD28-7R5G-2 | D | 7.5 | 33 | 30 | 11 | 43 | 39 |
| GD28-011G-2 | D | 11 | 44 | 42 | - | - | - |
| GD28-015G-2 | E | 15 | 60 | 55 | 22 | 72 | 64 |
| AC 3PH 380V~480V | / | | | | | | |
| GD28-0R4G-4 | Α | 0.4 | 2.7 | 1.5 | 0.75 | 3.9 | 2 |
| GD28-0R7G-4 | Α | 0.75 | 4.5 | 2.5 | 1.1 | 6 | 3.3 |
| GD28-1R1G-4 | Α | 1.1 | 5.8 | 3 | 1.5 | 6.9 | 3.7 |
| GD28-1R5G-4 | В | 1.5 | 7.6 | 4.2 | 2.2 | 8.6 | 5.5 |
| GD28-2R2G-4 | В | 2.2 | 9.62 | 5.5 | 3 | 10.4 | 7 |
| GD28-003G-4 | В | 3 | 11.4 | 7.5 | 4 | 12.8 | 9.5 |
| GD28-004G-4 | В | 4 | 15.3 | 9.5 | 5.5 | 17.2 | 11.5 |
| GD28-5R5G-4 | С | 5.5 | 22.1 | 14 | 7.5 | 28.1 | 18 |
| GD28-7R5G-4 | С | 7.5 | 25 | 18.5 | 11 | 26.8 | 21 |
| GD28-011G-4 | D | 11 | 36 | 25 | 15 | 46 | 32 |
| GD28-015G-4 | D | 15 | 46 | 32 | 18 | 55 | 38 |
| GD28-018G-4 | Е | 18 | 57 | 38 | 22 | 68 | 45 |
| GD28-022G-4 | E | 22 | 62 | 45 | 30 | 72 | 58 |

Electrical wiring





Product appearance



Basic specifications

| Function | Specifications |
|-------------------------|--|
| Input voltage | AC 1PH 200V ~ 240V AC 3PH 200V ~ 240V AC 3PH 380V ~ 480V |
| Input frequency | 50Hz or 60Hz; Allowed range: 47–63Hz, with a maximum change rate of 20%/s |
| VFD power | 0.2kW~22kW |
| Output frequency | 0~599Hz |
| Control mode | Space voltage vector control (V/F), and sensorless vector control (SVC) |
| Motor type | Asynchronous motor; permanent magnetic synchronous motor |
| Speed ratio | For asynchronous motor (AM), 1:100 (SVC); for synchronous motor (SM), 1:50 (SVC) |
| Speed control accuracy | ±0.2% (SVC) |
| Speed fluctuation | ±0.3% (SVC) |
| Torque response | < 10ms (SVC) |
| Torque control accuracy | 5% (SVC) |
| Starting torque | For AMs: 0.5Hz/200% (SVC) For SMs: 2.5Hz/150% (SVC) |
| Overload capacity | For heavy-load models: 150%/60s, 180%/10s For light-load models: 110%/60s, 150%/10s |
| Braking unit | Standard built-in braking unit |
| Safety function | Standard built-in Safe Torque Off (STO), SIL3 |

Standard interfaces

| Function | Specifications |
|-------------------------|--|
| Analog input | 2 analog inputs: AI1: 0~10V/0~20mA AI2: -10~10V/0~20mA Accuracy: Full-scale accuracy of 1% |
| Analog output | 1 analog output AO1: 0~10V/0~20mA Accuracy: Full-scale accuracy of 1% |
| Digital input | 4 regular inputs. Max. frequency: 1kHz 1 high-speed input. Max. frequency: 50kHz Both NPN and PNP are supported, with PNP as the default. DI4 can be switched to provide the PTC function through the toggle switch |
| Digital output | 1 high-speed digital output. Max frequency: 50kHz Optional standard digital output, supporting both PNP and NPN modes |
| Relay output | 1 programmable relay output RO1A: NO; RO1B: RC; RO1C: common terminal Contact capacity: 3A/AC 250V, 1A/DC 30V |
| Type-C interface | It is powered by connecting to a PC through USB, allowing quick parameter viewing and configuration through host controller software without requiring the main power supply |
| Communication interface | RS485 communication, supporting the Modbus RTU communication protocol |
| Keypad display | 5-digit digital tube display, with 6 keys |
| Expansion card | 1 expansion card slot: The all-in-one communication expansion card integrates PROFINET, EtherCAT, EtherNet/IP, and Modbus TCP fieldbus protocols, and allows the communication protocol to be selected by setting parameter P24.00 |



Distinctive functions

| Function | Specifications |
|---------------------------------------|--|
| ACC/DEC curve setting | Supports linear and S-curve modes. S-curve supports separate settings for ACC and DEC smoothness. |
| Wobbling frequency function | Specifies back-and-forth frequency wobbling near the center frequency, supports separate settings for rise and fall time, and supports frequency jump. |
| Overvoltage stall protection | Automatically adjusts frequency when the voltage exceeds limits to prevent overvoltage tripping. |
| Automatic current limiting protection | Automatically limits current and adjusts frequency when current exceeds limits, preventing overcurrent tripping. |
| Flexible DO output | Supports output terminal inversion when any function code value exceeds the specified threshold, allowing flexible user application, such as temperature overlimit monitoring, torque reaching, current reaching, voltage reaching, and line speed reaching. |
| Flexible AO/HDO output | Outputs any function code value to AO/HDO, allowing flexible user application, such as temperature monitoring, torque monitoring, and PID monitoring. |
| IF control | Supports IF control to enhance motor load-starting capability. |
| Grid voltage and frequency selection | Supports one-click setting of the VFD input voltage level and frequency. |
| Randomized PWM control | Reduces electromagnetic noise in special applications. |
| Energy-saving control | The VFD automatically seeks the most efficient operating point during actual operation, ensuring the motor operates at its highest efficiency to achieve energy savings, especially for the motor under light load conditions. |
| Enhanced flux braking | Enhances flux braking to accelerate the motor's DEC tracking process. |
| Inertia identification | Compensates for load inertia and enhances system responsiveness. |
| RS485 communication address mapping | Supports user-defined read/write addresses to enhance the flexibility of the RS485 communication. |
| Low-voltage debugging | The VFD can be disconnected from the main power and connected to a PC through the TYPE-C port to modify, save, import, and export parameters. |
| Remote upgrade | Supports remote OTA upgrades through IoT (requiring the optional 4G card). |
| Automatic voltage regulation (AVR) | The output voltage can be kept constant although the grid voltage changes. |
| Speed tracking | Tracks the actual running frequency and direction, implementing smooth running without impact, and reducing equipment impact. |
| Frequency decimal precision setting | The frequency can be set to a value with 1 or 2 decimal places, making it compatible with high-speed motor control. |
| Frequency setting method | Supports keypad digital setting, analog setting, multi-step speed running setting, Modbus communication setting, and so on. These settings can be combined and the setting channels can be switched. |
| Fault protection | Provides comprehensive fault protection: overcurrent, overvoltage, undervoltage, overtemperature, overload, phase loss, short circuit, and other protection functions. |
| Motor overtemperature protection | Monitors motor temperature in real-time through DI4 (PTC) or AOAI analog combination to reduce the risk of motor overheating damage. |

Environment condition

| Function | Specifications |
|--------------------------------|--|
| Place of use | Indoors, without direct sunlight, and free from conductive dust, oil mist, corrosive gases, or water vapor. The environment should not contain radioactive, flammable, explosive materials, or salts. |
| Running temperature | -10°C ~50°C , no derating for light load at 40°C , no derating for heavy load at 50°C |
| Storage temperature | -20°C ~70°C |
| Transport temperature | -20°C ~70°C |
| Altitude | Star-type grid: Max. altitude of 4000m (13,123ft). Delta-type grid: Max. altitude of 2000m (6562ft). For altitudes of 1000m (3281ft) and below, no derating is required. Above 1000m (3281ft), derate by 1% for every increase of 100m (328.1ft) |
| Relative humidity (RH) | <95%RH, no condensation |
| Vibration | <0.6g |
| Overvoltage category | OVC III |
| Pollution level | 3C2, 3S2, PD2 |
| Ingress protection (IP) rating | IP20 |
| EMC class | The built-in C3 filter (15m) is standard for requirement meeting, while the optional external EMI filter can be selected to meet C2 class requirements. |
| Product certification | UL CE TUV |
| Mounting method | Wall mounting, DIN rail mounting, and flange mounting |
| Cooling method | 220V voltage class: natural cooling for 0.75kW and lower 380V voltage class: natural cooling for 1.1kW and lower Others: Forced air cooling |

Optional bus communication card



| Fieldbus protocol | Features Features |
|----------------------|--|
| PROFU® | Supports the PROFINET protocol and PROFINET IO devices. Supports the medium redundancy protocol (MRP) and system redundancy protocol (S2). Equipped with the slave station GSDML configuration file, it can communicate with Siemens PLC and other master stations. Equipped with 2 PROFINET IO ports, supporting 100M full-duplex operation. Applicable to linear, star, and ring network topologies. Enables basic operations on VFDs, such as reading and writing process values, reading status values, and reading/writing function codes. This communication card supports up to 32 IOs. |
| Ether CAT. | Supports the EtherCAT CiA 402 protocol. Configured with a slave station XML configuration file, it can communicate with Beckhoff PLC, INVT AX controllers, and other master stations. Automatic network address configuration. Equipped with two RJ45 ports, supporting 10/100M half/duplex operating, designated for IN and OUT directions Supports linear, star, and ring network topologies. |
| ETHER NET/ P | Supports the EtherNet IP protocol and EtherNet IP slave nodes. Supports ODVA standards and DLR ring protocol. When configured with a slave station EDS configuration file, it can communicate with Rockwell PLC and other master stations. Equipped with EtherNet/IP ports featuring dual RJ45 interfaces, supporting 10/100M full/half-duplex operation. Applicable to linear, star, and ring network topologies. Enables basic operations on VFDs, such as reading and writing process values, reading status values, and reading/writing function codes. This communication card supports up to 32 IOs. |
| Modbus TCP | Supports the Modbus TCP protocol and Modbus TCP slave stations Supports the concurrent communication with multiple master stations. It can communicate with Schneider PLCs, INVT AX controllers, and other master stations. Equipped with two RJ45 ports, supporting 10/100M full/half-duplex operation. Supports basic operations on VFDs, such as reading and writing process values, reading status values, and reading/writing function. Supports linear and star network topologies. |



Wall mounting







Frame A or B

Frame C

Frame D or E

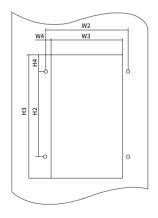
Unit: mm

| Frame | W1 | H1 | D1 | W2 | H2 | Hole diameter |
|-------|-----|-----|-----|-----|-----|---------------|
| А | 60 | 190 | 155 | 36 | 180 | Ø5 |
| В | 70 | 190 | 155 | 36 | 180 | Ø5 |
| С | 90 | 235 | 155 | 70 | 220 | Ø6 |
| D | 130 | 250 | 185 | 100 | 237 | Ø 6 |
| Е | 160 | 300 | 190 | 130 | 287 | Ø 6 |

Flange mounting







Frame C, D, or E

Unit: mm

| Frame | W1 | W2 | W2 | W4 | H1 | H2 | Н3 | H4 | D1 | D2 | Hole diameter |
|-------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|------------------|
| С | 130 | 112 | 92 | 10 | 260 | 170 | 237 | 35 | 155 | 75 | Ø5 |
| D | 190 | 170 | 150 | 10 | 275 | 170 | 252 | 50 | 185 | 105 | Ø6 |
| Е | 220 | 200 | 180 | 10 | 325 | 200 | 302 | 50 | 190 | 105 | Ø6 |

Options

| Option name | Appearance | Model/Function/ Applicable to | Option name | Appearance | Model/Function/ Applicable to |
|----------------|--|---|-------------------------------------|--|--|
| LED keypad | | Model: BOP-270 Function: Externally connected LED display and operation panel Applicable to: All series | DIN rail mounting bracket | | Model: AP-RB-01-27 Function: Used to install the VFD on the DIN rail Applicable to: VFDs in frames A and B |
| LCD keypad | ************************************** | Model: SOP-28 Function: Externally connected LCD display and operation panel Applicable to: All series | Bus communication expansion card | | Model: EC-TX149 Function: Used to expand industrial bus communication Applicable to: All series |
| Keypad bracket | | Model: OPS-B Function: Used to fix the external LED or LCD keypad to the electrical cabinet Applicable to: SOP -28 BOP -270 | | nunication expansic currently under dev | on card and IO expansion elopment··· |

| Appearance | Option name | Option model | Applicable frame |
|------------|-------------------------------------|--------------|------------------|
| | Flange mounting bracket-C | AP-FL-C-01 | С |
| | Flange mounting bracket-D | AP-FL-D-01 | D |
| | Flange mounting bracket-E | AP-FL-E-01 | E |
| | Metal shielding plate kit-A | AP-SP-A-01 | A or B |
| 3 | Metal shielding plate kit-C | AP-SP-C-01 | С |
| F | Metal shielding plate kit-D | AP-SP-D-01 | D |
| 100 | Metal shielding plate kit-E | AP-SP-E-01 | E |
| | NAME1 junction box protection kit-A | AP-TB-A-01 | А |
| | NAME1 junction box protection kit-B | AP-TB-B-01 | В |
| 00 | NAME1 junction box protection kit-C | AP-TB-C-01 | С |
| | NAME1 junction box protection kit-D | AP-TB-D-01 | D |
| | NAME1 junction box protection kit-E | AP-TB-E-01 | E |

Note: The appearance of accessories/components may vary across different models. Illustrations are for reference only. Actual product shall prevail.

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• New Energy Vehicle Charging System

New Energy Vehicle Motor

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