Goodrive20 Series

Vector Control VFD



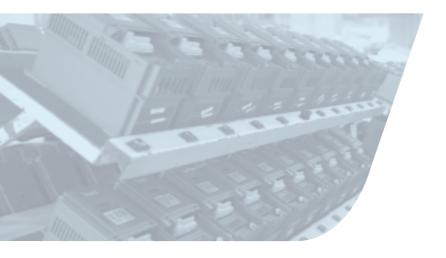








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/ Introduction

Goodrive20 series VFDs feature excellent drive and control performance for using of sensorless vector control technology, and improve usability and reliability for the enriched hardware configurations and software functions, meeting different industrial applications.







/ Features

Optimized structure design

Optimized spare utilization, models (≥18.5kW) is much smaller than existing VFDs.

Size compared with GD200A

| Power Rate | Size of GD20 (W*H*D) | Size of GD200A (W*H*D) | Size decreased than GD200A |
|------------|-------------------------|---------------------------|-------------------------------|
| 18.5kW | 200*340.6*184.3 | 230*342*216 | 26% |
| 22kW | 200*340.6*184.3 | 255*407*245 | 51% |
| 30kW | 250*400*202 | 255*407*245 | 21% |
| 37kW | 250*400*202 | 270*555*325 | 59% |
| 45kW | 282*560*238 | 270*555*325 | 23% |
| 55kW | 282*560*238 | 270*555*325 | 23% |
| 75~110kW | 338*554*329.2 | 325*680*365 | 24% |

Mini design for VFDs (≤ 2.2kW); abreast installation of multiple VFDs, reducing installation space



Flexible installation ways

VFDs (\leqslant 2.2kW) support wall mounting and rail mounting.



Rail mounting



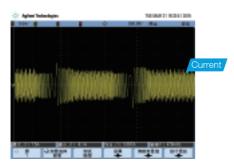
Wall mounting

VFDs (≥4kW) support wall mounting and flange mounting.



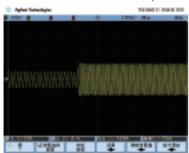
Excellent Performance

Excellent vector control performance

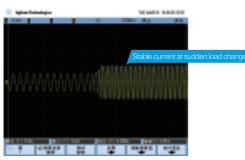


Current waveforms in vector control mode with 50Hz and full load

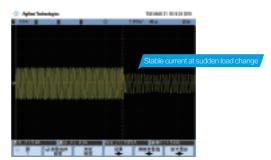
Excellent motor drive performance



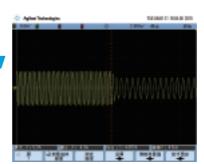
Current waveforms when sudden loading in V/F control mode with 2Hz and full load



Current waveforms when sudden loading in vector control mode with 0.5Hz and full load

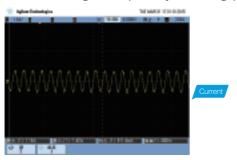


Current waveforms when sudden unloading in V/F control mode with 2Hz and full load

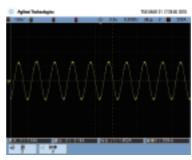


Current waveforms when sudden unloading in vector control mode with 0.5Hz and full load

Excellent high-frequency running performance



Current waveforms when sudden loading in vector control mode with 0.5Hz and full load



Current waveforms when sudden unloading in vector control mode with 0.5Hz and full load

Multi-function and easy to use

DC reactors are built-in VFDs ≥18.5kW



The braking unit is built-in and standard for VFDs ≤37kW but optional for VFDs of 45-110kW.

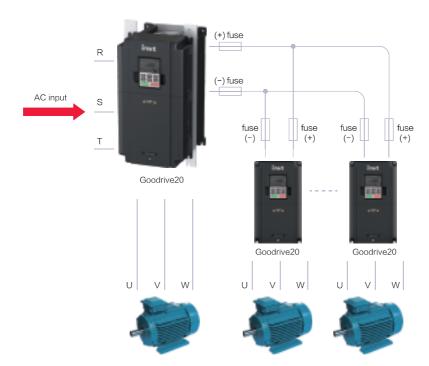
Dynamic braking can be implemented by only configuring braking resistors, reducing occupation space.



Compared about embedded braking unit

VFDs (380V; ≥4kw) support the DC bus sharing solution.

Dynamic braking can be implemented by only configuring braking resistors, reducing occupation space.



Built-in Safety Torque Off function

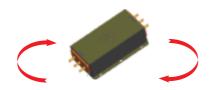
GD20 series VFD support Built-in Safety Torque Off function, and passed the certification as followed:

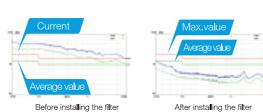
| Model | Certification standard and grade | | | | | | | | |
|--|----------------------------------|-------|--------|---------|----------|---|--|--|--|
| | IEC 6 | 61508 | EN/ISO | 13849-1 | EN954-1 | | | | |
| -\$2:0.4~2.2kW -2:0.4~0.75kW -4:0.75~2.2kW | SIL | 2 | PL | d | Category | 3 | | | |
| -2:1.5~7.5kW -4:4~110kW | SIL | 3 | PL | е | Category | 3 | | | |

C3 and C2 filters

C3 filters are built in VFDs (3PH; 380V; \geq 4kW) and (3PH; 220V; \geq 1.5kW) by using J10 to determine the connection or disconnection. External C3 filters can be configured for VFDs (1PH; 220V; \leq 2.2kW), (3PH; 380V; \leq 2.2kW) and (3PH; 220V; \leq 0.75kW).

External C2 filters are optional for all GD20 series VFDs.





Conductive interference test of the power supply terminals

Remarks

C2 filter: EMC performance of the VFD achieves the limited usage requirement in civil environment.

C3 filter: EMC performance of the VFD achieves the limited usage requirement in industrial environment.

Support of external keypad

The membrane keypad are standard for VFDs (380V; \leq 2.2kW), which also support external LED keypads. The keypads for VFDs (3PH; 380V; \geq 4kW) can be used as external keypads.

GD20 series VFDs can be configured with LED keypad which has the data copy function to upload or download the parameters.



Pluggable design for cooling fans, making maintenance easy



Abundant software functions

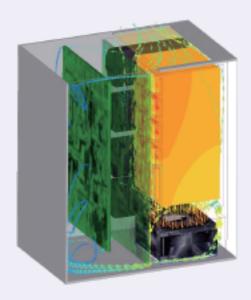
| Function | Used to | Remarks |
|--|--|--|
| RS485 communication | Read and modify VFD parameters through connection to the upper computer so as to control VFD running status. | Configured with RS485 communication interface |
| PID | Carry out PID operation on feedback signals to control VFD output frequency and improve target accuracy and stability. Applicable to pressure, flow and temperature process control. | Supports PID output polarity switching. |
| Motor parameter autotuning | Carry out rotation or static autotuning, improving control accuracy and response speed. | Classified into rotation autotuning and static autotuning. |
| Simple PLC function | Change the running frequency and direction automatically according to the running time set by simple PLC to meet process requirements. | Supports multiple running modes. |
| Multi-step speed control | Meet the speed control requirements in different periods of time. | A maximum of 16 steps can be divided for multi-step speed control. |
| Multiple V/F curve settings | Meet the requirements of energy-saving operation for fans and water pumps and of various variable frequency power supplies; adapt to different load applications. | Linear, multi-dot, multi-power and V/F separation settings, implementing flexible setting of V/F curves. |
| Virtual terminals | Take external signals as local virtual I/O to reduce hardware configuration. | Corresponding virtual terminal functions must be enabled in communication mode. |
| Delay of switching on and off | Provide more programming and control modes | Max. switching on/off delay is 50s |
| Uninterrupted running in instantaneous power off | Ensure uninterrupted running in instantaneous power off. Especially applicable to the situations with high requirements on continuous operation. | At transient voltage drop, the VFD can keep running by feedback energy without stop in valid time. |
| Various protection functions | Provide overall fault protection functions. | Various measures provided to protect against faults such as overcurrent, overvoltage, undervoltage, overheating, and overload, whose information can be saved. |
| Multiple braking modes available | Provide multiple braking modes, satisfying accurate and quick stop under different loads. | DC braking, flux braking, dynamic braking |
| Battery capacity display | Display the accumulative power consumption on the VFD without watthour meter. | VFD power consumption can be queried. |

Reliable QA

Goodrive20 is designed follow the IEC standards and passes the CE test.



Exact thermal design is made based on advanced thermal technology.



Perfect and Reliable Test System Ensure Products Adapt Complicated Site Environments and Achieved ACT Certificate of TÜV SÜD

| Experiment Type | Experiment Name | Classification | | | | |
|------------------------------------|--------------------------|--|--|--|--|--|
| | | Package compression experiments | | | | |
| | | Package Resonance imaging and storage test | | | | |
| | | Package random vibration test | | | | |
| | Packaging Experiments | Package dropping test | | | | |
| | | Package rolling test | | | | |
| Mechanical Reliability Experiments | | Package dumping test | | | | |
| | | Package inclined impact test | | | | |
| | Impact Test | Half-sine shock test(working and non-working state) | | | | |
| | Impact rest | Trapezoidal wave impulse test(non-working state) | | | | |
| | | Sinusoidal vibration test(working state) | | | | |
| | Vibration Test | Random vibration test(working and non-working state) | | | | |
| | | Low temperature storage test | | | | |
| | | High temperature storage test | | | | |
| | Temperature | Low temperature working test | | | | |
| | Experiment | High temperature working test | | | | |
| | | Gradient temperature change test | | | | |
| Climatic Environmental | | Temperature impact test | | | | |
| Reliability Test | Temperature | Constant temperature & humidity test | | | | |
| | Humidity Test | Alternation temperature & humidity test | | | | |
| | Salt Spray Test | Constant salt spray test | | | | |
| | | Alternation salt spray test | | | | |
| | Low Air | Combined dry heat & low air pressure test | | | | |
| | Pressure Test | Combined cold&low air pressure test | | | | |

Remarks:

The full name of ACT is Acceptance of Client's Testing, which means the German TÜV SÜD admit the technology level of the lab and accept their separate testing data and test reports officially.



Electric Vibration System



Low Prssure Test Chamber& Constant temperature and humidity test chamber



Faster temperature chamber& Thermal Shock Test Chamber

/ Applications





















/ Technical specification

| | Function | Specification | | |
|---------------------------|--|--|--|--|
| Power input | Input voltage (V) | 1PH 220V (-15%)~240V(+10%) 3PH 220V(-15%)~240V(+10%) 3PH 380V (-15%)~440V(+10%) | | |
| Power input | Input current (A) | Refer to the rated value | | |
| | Input frequency (Hz) | 50Hz or 60Hz, allowed range: 47~63Hz | | |
| | Output motor capacity (kW) | Refer to the rated value | | |
| Dower output | Output current (A) | Refer to the rated value | | |
| Power output | Output voltage (V) | 0~input voltage, error<5% | | |
| | Output frequency (Hz) | 0~400Hz | | |
| | Control mode | SVPWM, SVC | | |
| | Adjustable-speed ratio | 1:100 | | |
| | Speed control accuracy | ±0.2% (SVC) | | |
| Technical control feature | Speed fluctuation | ± 0.3% (SVC) | | |
| | Torque response | <20ms (SVC) | | |
| | Torque control accuracy | 10% | | |
| | Starting torque | 0. 5Hz/150% (SVC) | | |
| | Overload capability | 150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second | | |
| Running control feature | Frequency setting method | Digital setting, analog setting, pulse frequency setting, multi-step speed running setting, simple PLC setting, PID setting, MODBUS communication setting Shift between the set combination and set channel. | | |
| Running control feature | Auto-adjustment of the voltage | Keep a stable voltage automatically when the grid voltage transients | | |
| | Fault protection | Provide comprehensive fault protection functions: over-current, over-voltage, under-voltage, over-heating, phase loss and overloa etc. | | |
| | Analog input | 1 (AI2) 0~10V/0~20mA and 1 (AI3) -10~10V | | |
| | Analog output | 2 (AO1, AO2) 0~10V/0~20mA | | |
| | Digital input | 4 common inputs, the Max. frequency: 1kHz; 1 high speed input, the Max. frequency: 50kHz | | |
| Peripheral interface | Digital output | 1 Y1 terminal output; | | |
| | Relay output | 2 programmable relay outputs RO1A NO, RO1B NC, RO1C common terminal RO2A NO, RO2B NC, RO2C common terminal Contactor capacity: 3A/AC250V | | |
| | Mountable method | Wall and rail mountable | | |
| | Braking unit | Embedded | | |
| | EMI filter | Optional filter: meet the degree requirement of IEC61800-3 C2, IEC61800-3 C3 | | |
| Others | Temperature of the running environment | -10~50°C Above 40°C, derate 1% for every additional 1°C. | | |
| | Altitude | <1000m Above 1000m, derate 1% for every additional 100m. | | |
| | Protective degree | IP20 | | |
| | Safety | Meet the requirement of CE | | |
| | Cooling | Fan cooling | | |

/ Selection

Type designation key

GD20-055G-4-B-EU

1 2 3 4 5

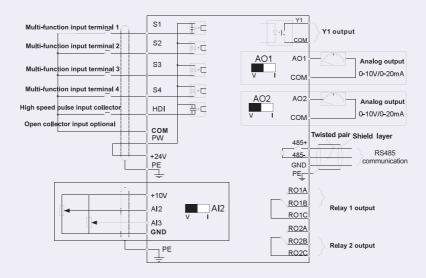
| Key | No. | Detailed description | Detailed content |
|--------------------------|-----|-----------------------|--|
| Abbreviation | 1 | Product abbreviation | GD20 is short for Goodrive20 |
| Rated power | 2 | Power range+load type | 055-55kW G: constant torque load |
| Voltage degree | 3 | Voltage degree | S2: AC 1PH 220V(-15%)~240V(+10%) 2: AC 3PH 220V(-15%)~240V(+10%) 4: AC 3PH 380V(-15%)~440V(+10%) |
| Additional information 1 | 4 | Braking unit | B: With built-in braking unit for VFDs ≥45kW; Standard VFDs ≥45kW without built-in braking unit, B is not displayed |
| Additional information 2 | (5) | Special function | EU: built-in Safety Torque Off function; Without EU, without the function |

Rated parameters

| Model | Voltage degree | Output power (kW) | Input current (A) | Output current (A) |
|--------------|----------------|-------------------|-------------------|--------------------|
| GD20-0R4G-S2 | | 0.4 | 6.5 | 2.5 |
| GD20-0R7G-S2 | 1PH 220V | 0.75 | 9.3 | 4.2 |
| GD20-1R5G-S2 | IFN 220V | 1.5 | 15.7 | 7.5 |
| GD20-2R2G-S2 | | 2.2 | 24 | 10 |
| GD20-0R4G-2 | | 0.4 | 3.7 | 2.5 |
| GD20-0R7G-2 | | 0.75 | 5 | 4.2 |
| GD20-1R5G-2 | 3PH 220V | 1.5 | 7.7 | 7.5 |
| GD20-2R2G-2 | | 2.2 | 11 | 10 |
| GD20-004G-2 | | 4 | 17 | 16 |
| GD20-5R5G-2 | | 5.5 | 21 | 20 |
| GD20-7R5G-2 | | 7.5 | 31 | 30 |
| GD20-0R7G-4 | | 0.75 | 3.4 | 2.5 |
| GD20-1R5G-4 | | 1.5 | 5.0 | 4.2 |
| GD20-2R2G-4 | | 2.2 | 5.8 | 5.5 |
| GD20-004G-4 | | 4 | 13.5 | 9.5 |
| GD20-5R5G-4 | | 5.5 | 19.5 | 14 |
| GD20-7R5G-4 | | 7.5 | 25 | 18.5 |
| GD20-011G-4 | | 11 | 32 | 25 |
| GD20-015G-4 | | 15 | 40 | 32 |
| GD20-018G-4 | 3PH 380V | 18.5 | 47 | 38 |
| GD20-022G-4 | | 22 | 51 | 45 |
| GD20-030G-4 | | 30 | 70 | 60 |
| GD20-037G-4 | | 37 | 80 | 75 |
| GD20-045G-4 | | 45 | 98 | 92 |
| GD20-055G-4 | | 55 | 128 | 115 |
| GD20-075G-4 | | 75 | 139 | 150 |
| GD20-090G-4 | | 90 | 168 | 180 |
| GD20-110G-4 | | 110 | 201 | 215 |

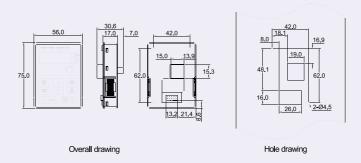
Standard wiring

Wiring diagram of control circuit

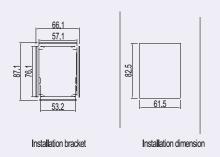


Installation dimension

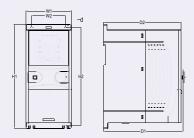
External keypad dimension



Note: The external keypad can be 20 meters away from the VFD at most.



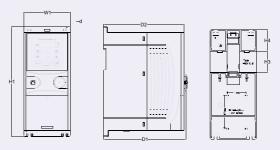
VFD dimensions



Wall mounting of 0.75~2.2kW VFDs

Dimensions (unit: mm)

| Model | W1 | W2 | H1 | H2 | D1 | D2 | Hole (d) |
|--------------|------|------|-------|-------|-------|-------|----------|
| GD20-0R4G-S2 | 80.0 | 60.0 | 160.0 | 150.0 | 123.5 | 120.3 | 5 |
| GD20-0R7G-S2 | 80.0 | 60.0 | 160.0 | 150.0 | 123.5 | 120.3 | 5 |
| GD20-1R5G-S2 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-2R2G-S2 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R4G-2 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R7G-2 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R7G-4 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-1R5G-4 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-2R2G-4 | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |



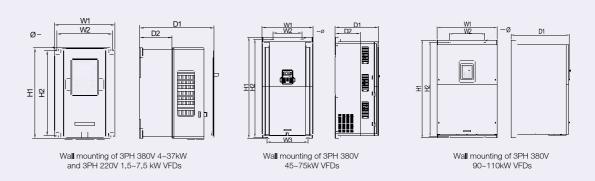
Rail mounting of VFDs of 1PH 220V/3PH 380V ($\!\!\!<\!\!\!<\!\!2.2kW$) and 3PH 220V ($\!\!\!<\!\!\!<\!\!0.75kW$)

Dimensions (unit: mm)

| Model | W1 | W2 | H1 | H2 | D1 | D2 | Hole (d) |
|--------------|------|-------|------|------|-------|-------|----------|
| GD20-0R4G-S2 | 80.0 | 160.0 | 35.4 | 36.6 | 123.5 | 120.3 | 5 |
| GD20-0R7G-S2 | 80.0 | 160.0 | 35.4 | 36.6 | 123.5 | 120.3 | 5 |
| GD20-1R5G-S2 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-2R2G-S2 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R4G-2 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R7G-2 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R7G-4 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-1R5G-4 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-2R2G-4 | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |

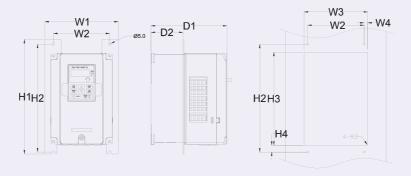
/ Installation dimension

VFD dimensions

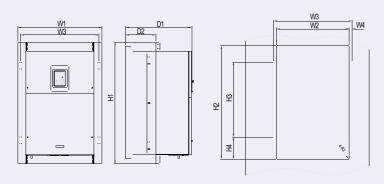


Dimensions (unit: mm)

| Model | W1 | W2 | W3 | H1 | H2 | D1 | D2 | Hole (d) |
|-------------|-------|-------|-------|-------|-------|-------|-------|----------|
| GD20-1R5G-2 | 146.0 | 131.0 | _ | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-2R2G-2 | 146.0 | 131.0 | _ | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-004G-2 | 146.0 | 131.0 | _ | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-5R5G-2 | 170.0 | 151.0 | _ | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-7R5G-2 | 170.0 | 151.0 | _ | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-004G-4 | 146.0 | 131.0 | _ | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-5R5G-4 | 146.0 | 131.0 | _ | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-7R5G-4 | 170.0 | 151.0 | _ | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-011G-4 | 170.0 | 151.0 | _ | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-015G-4 | 170.0 | 151.0 | _ | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-018G-4 | 200.0 | 185.0 | _ | 340.6 | 328.6 | 184.3 | 104.5 | 6 |
| GD20-022G-4 | 200.0 | 185.0 | _ | 340.6 | 328.6 | 184.3 | 104.5 | 6 |
| GD20-030G-4 | 250.0 | 230.0 | - | 400.0 | 380.0 | 202.0 | 123.5 | 6 |
| GD20-037G-4 | 250.0 | 230.0 | _ | 400.0 | 380.0 | 202.0 | 123.5 | 6 |
| GD20-045G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-055G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-075G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-090G-4 | 338.0 | 200.0 | _ | 554.0 | 535.0 | 329.2 | _ | 9.5 |
| GD20-110G-4 | 338.0 | 200.0 | _ | 554.0 | 535.0 | 329.2 | _ | 9.5 |



Flange mounting of 3PH 380V 4~75kW and 3PH 220V 1.5~7.5kW VFDs



Flange mounting of 3PH 380V 90~110kW VFDs

Dimensions (unit: mm)

| Model | W1 | W2 | W3 | W4 | H1 | H2 | НЗ | H4 | D1 | D2 | Llolo (d) | Nut |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|
| Model | VV I | VV | VV3 | VV4 | | П2 | по | П4 | | D2 | Hole (d) | Nut |
| GD20-1R5G-2 | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-2R2G-2 | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-004G-2 | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-5R5G-2 | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-7R5G-2 | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-004G-4 | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-5R5G-4 | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-7R5G-4 | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-011G-4 | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-015G-4 | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-018G-4 | 266 | 250 | 224 | 13 | 371 | 250 | 350.6 | 20.3 | 184.6 | 104 | 6 | M5 |
| GD20-022G-4 | 266 | 250 | 224 | 13 | 371 | 250 | 350.6 | 20.3 | 184.6 | 104 | 6 | M5 |
| GD20-030G-4 | 316 | 300 | 274 | 13 | 430 | 300 | 410 | 55 | 202 | 118.3 | 6 | M5 |
| GD20-037G-4 | 316 | 300 | 274 | 13 | 430 | 300 | 410 | 55 | 202 | 118.3 | 6 | M5 |
| GD20-045G-4 | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-055G-4 | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-075G-4 | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-090G-4 | 418.5 | 361 | 389.5 | 14.2 | 600 | 559 | 370 | 108.5 | 329.5 | 149.5 | 9.5 | M8 |
| GD20-110G-4 | 418.5 | 361 | 389.5 | 14.2 | 600 | 559 | 370 | 108.5 | 329.5 | 149.5 | 9.5 | M8 |
| GD20-022G-4 | 200.0 | 185.0 | _ | 340.6 | 328.6 | 184.3 | 184.3 | 104.5 | 184.3 | 104.5 | 6 | 184.3 |
| GD20-030G-4 | 250.0 | 230.0 | _ | 400.0 | 380.0 | 202.0 | 202.0 | 123.5 | 202.0 | 123.5 | 6 | 202.0 |
| GD20-037G-4 | 250.0 | 230.0 | - | 400.0 | 380.0 | 202.0 | 202.0 | 123.5 | 202.0 | 123.5 | 6 | 202.0 |
| GD20-045G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-055G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-075G-4 | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-090G-4 | 338.0 | 200.0 | _ | 554.0 | 535.0 | 329.2 | 329.2 | _ | 329.2 | - | 9.5 | 329.2 |
| GD20-110G-4 | 338.0 | 200.0 | _ | 554.0 | 535.0 | 329.2 | 329.2 | _ | 329.2 | _ | 9.5 | 329.2 |

Note: In flange installation mode, the installation bracket is optional

/ Optional parts

External LED keypad

Including the external keypads with or without the parameter copying function.





Filter

Input filter: Control the electromagnetic interference generated from the VFD, please install close to the input terminal side of the VFD.

Output filter: Control the interference from the output side of the VFD, please install close to the output terminals of the VFD.





Membrane of heat releasing holes at the side

Apply to severe environment and improve protective effect.

Derate 10% of the machine.





Reactor

Input reactor: Improve the power factor of the input side of the VFD and control the higher harmonic current.

Output reactor: Prolong the effective transmitting distance of the VFD and control the sudden high voltage when switching on/off the IGBT of the VFD.



Braking resistor

Auxiliary equipment for braking system, shorten the deceleration time.



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