

CONTROL TECHNIQUES



NE200 & NE300

HIGH PERFORMANCE VECTOR CONTROL DRIVE

220/380VAC 0.4~900KW 0~550HZ

DRIVE OBSESSED

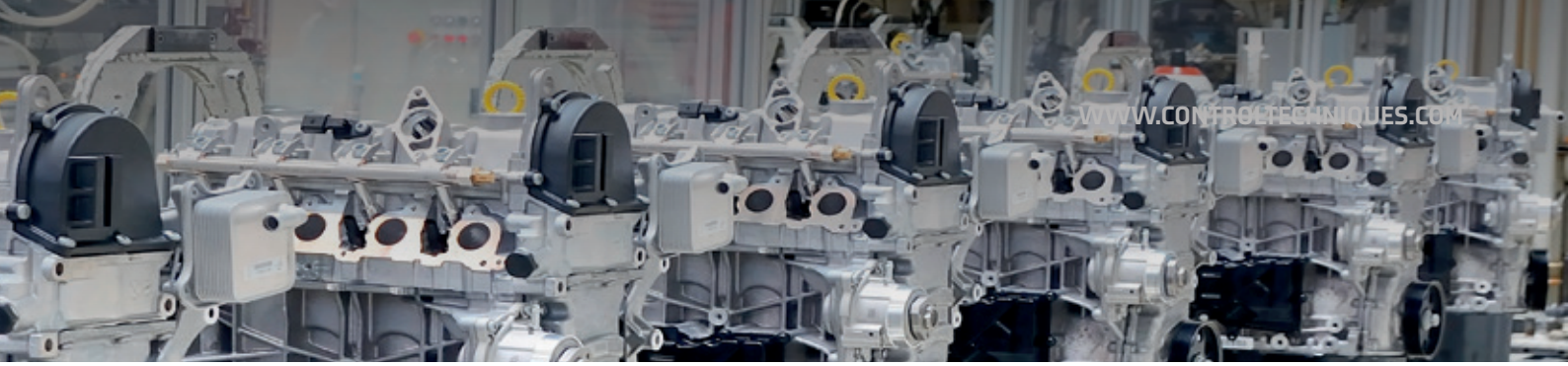
NE200 & NE300

FEATURES &

ACCESSORIES

Outstanding control performance

- Outstanding software control platform with unique vector control algorithm
- Renesas 32 bit high speed motor control DSP
- Authentic current vector control: torque current and field current decoupling control
- Advanced vector control algorithm: induction motor and PM motor control
- Three control modes: Vector control without PG, Vector control with PG and V/F control
- The real hardware speed tracking function, more stable and reliable than the software tracking function
- Dynamic current torque control, quickly response to load variation
- Accelerating current suppression, unique current algorithm avoid machine trip due to high startup current without impacting startup torque
- Superior torque performance at low frequency, open loop vector control 150% torque output at 0.5Hz, satisfied low frequency high torque applications such as machine tool, crane and hoist industry.
- Superior overload performance: 180% current for 20s
- High precision speed control, enable high accurate synchronous control



Powerful function

- Multiple frequency setup function
- Open-loop / close-loop torque control function, torque control mode/ speed control mode online switching
- PID function provide two groups PI parameters, PID output range is settable, supporting sleep mode
- V/F separate control function in V/F control mode
- Tension control drive enable automatic rolling diameter calculation pre-setup function
- Automatic load balance droop control function
- Fixed length control function
- RS-485 communication port supporting MODBUS-RTU communication protocol for multi drive synchronization.
- Various extension cards are optional for flexible applications.
- Automatic energy saving function, power off automatically restart function, and parameter cloning through keypad.
- Parameter backup function and recovery through terminals.
- Rich protection and supervision functions.

Novel design

- Independent ventilation design for all whole series products, ventilation channel and electrical components are separated, reduce the failure rates for electrical parts.
- Compact design, based on thermal simulation and design to reduce product size, the size of products is around 70% of main stream brands at the same power rating.
- Graphic keypad to satisfy majority operation behavior
- Control panel standard RJ45 port, enhanced communication anti-interference ability, convenient to extension.
- Aluminum zinc plate and painting protection ensure the grounding protection, shielding performance and products' rot resistance.
- DC fan design for whole series products, reduce cooling system failure rate leading by AC fan breakdown

Superior adaptability

- Unique IGBT drive circuit, more reliable operation for power components
- Phase-to-phase Short-circuit protection for all product, grounding protection for >18.5KW products, adaptable for harsh environment
- Wide working voltage range: 304VAC~456VAC
- German conformal coating material
- Optimize EMC design, immunity for high interference environment
- 100% incoming inspection
- Automatic PCB and drive tests
- High temperature aging test for PCB and drives.



*Please consult our company for customized drive model detail.



NE200 & NE300

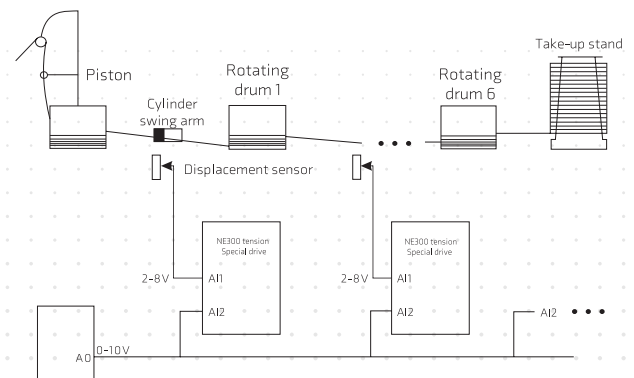
Solution of Direct feed Wire Drawing Machine

Solution advantages

- Feedforward PID control mode can be adopted between processes of the system. The main speed is calculated from the metal flow per second from the previous process. As a fine adjustment of the system speed, the speed calculation is made inside the variable-frequency drive, improving response time and simplifying the commission work.
- Users can choose between speed mode and torque mode for the winding part based on their requirements. The speed mode adopts PID feedforward control method, which requires a tension frame. The torque mode does not need a tension frame, and the winding machine follows the speed of the main machine by maintaining the constant tension of the wire rod;
- The variable-frequency drive is equipped with built-in winding diameter calculation function, which can quickly and accurately calculate the winding diameter to ensure that the rotation speed of the take-up motor meets the requirements of constant linear speed winding of materials;
- Motor speed command can be realized through analog quantity, pulse quantity ModBus communication and other methods according to user requirements, and the logic controls to coordinate the different parts within a system are realized by PLC.

Solution features

- The current vector variable-frequency driver ensures that the system has excellent low frequency performance and dynamic performance;
- With excellent built-in PID or torque mode, the system has good dynamic performance, and the system is made simple.





NE200 & NE300

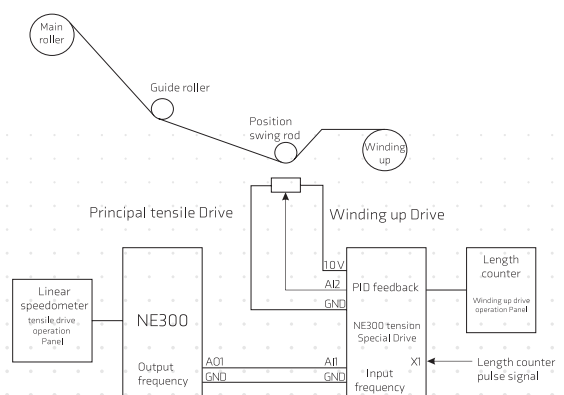
Solution of Wire Drawing Machine with double VFDs

Solution advantages

- User can choose between speed mode and torque mode according to their requirements. For speed mode, PID feedforward method is adopted, which requires a tension frame. The torque mode does not need a tension frame, and the winding machine follows the speed of the main machine by keeping the constant tension of the wire;
- The variable-frequency drive is equipped with built-in winding diameter calculation function, which can quickly and accurately calculate the winding diameter to ensure that the rotation speed of the take-up motor meets the requirements of constant linear speed winding of materials;
- Automatic detection of material fracture: It can automatically identify the state of material fracture and raise an alarm without an additional detection device.

Solution features

- The variable-frequency drive can completely realize the main electrical control of the wire drawing machine without additional controller and, therefore, the system structure is simplified;
- During operation, the fluctuation of the swing rod is small. When the machine starts after shutdown, the rod will be positions automatically without any human actions;
- It runs smoothly in the whole working range of linear speed command, and the driving motor can quickly respond to the sudden change of linear speed command;
- The standard operation panels of the two variable-frequency drives can be relocated outside of the process cells by using extension cables. And they can be used as displays for linear speedometers and meter counters.



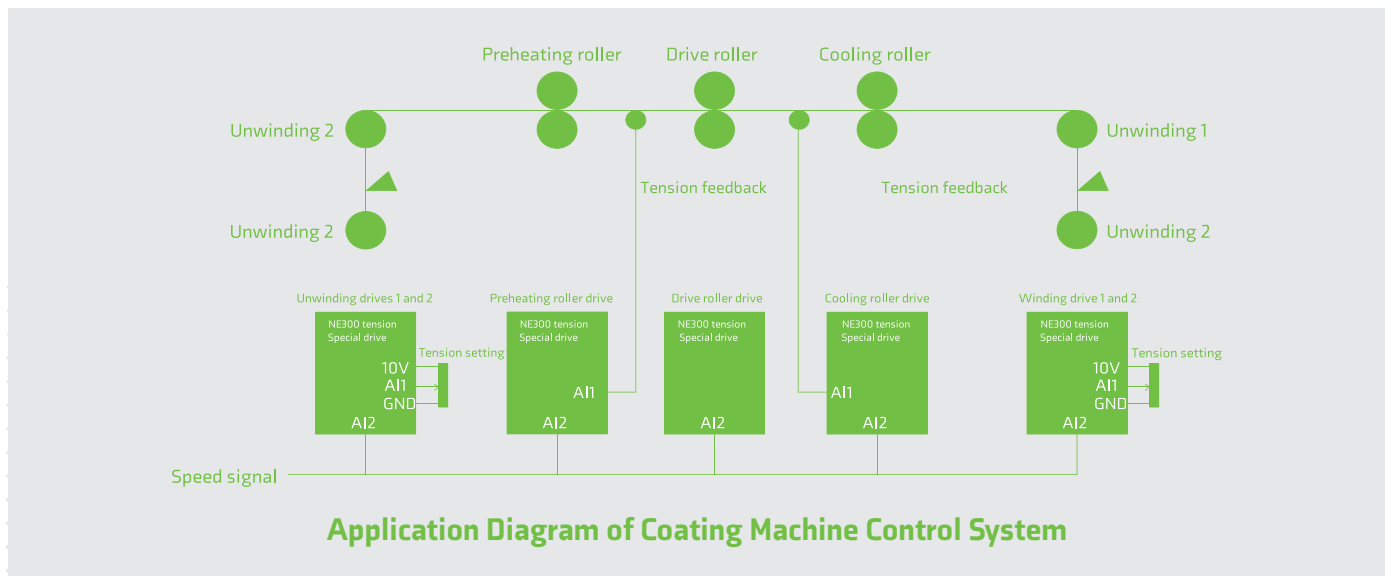
Application of Constant Tension Control System

Solution features

- High performance vector control / torque control technology realizes constant linear speed and constant tension control;
- Tension feedback solution: the winding machine outputs the most matching torque according to tension setting, tension feedback signal and current winding diameter. As a result, constant tension control of the system is realized;
- Tension-free feedback solution: the winding machine automatically follows the speed of the main machine and obtains ideal torque output according to the tension setting and the current winding diameter. As a result, constant tension control is achieved;
- Applicable to the following equipment: slitting machine, coating machine, paper machine, printing machine, compound machine, jig dyeing machine, etc.

Solution advantages

- Stable control: the closed-loop tension control mode of NE300 tension special variable-frequency drive can provide tension stability in the process of acceleration and deceleration of the system;
- Integrated winding diameter calculation function and tension control compensation algorithm, simplifying PLC program development and making it effective and convenient;
- Double-station winding: With the equipped pre-drive function, winding reel can be switched over automatically and quickly without shutting down the line, improving production efficiency;
- The taper of winding can be controlled conveniently and accurately to avoid bad "flowering cabbage" shape and improve the winding quality;
- A variety of additional practical functions, such as: fracture detection and alarm, fracture overrun protector, length counter, linear speedometer, etc.



Compressor industry solution

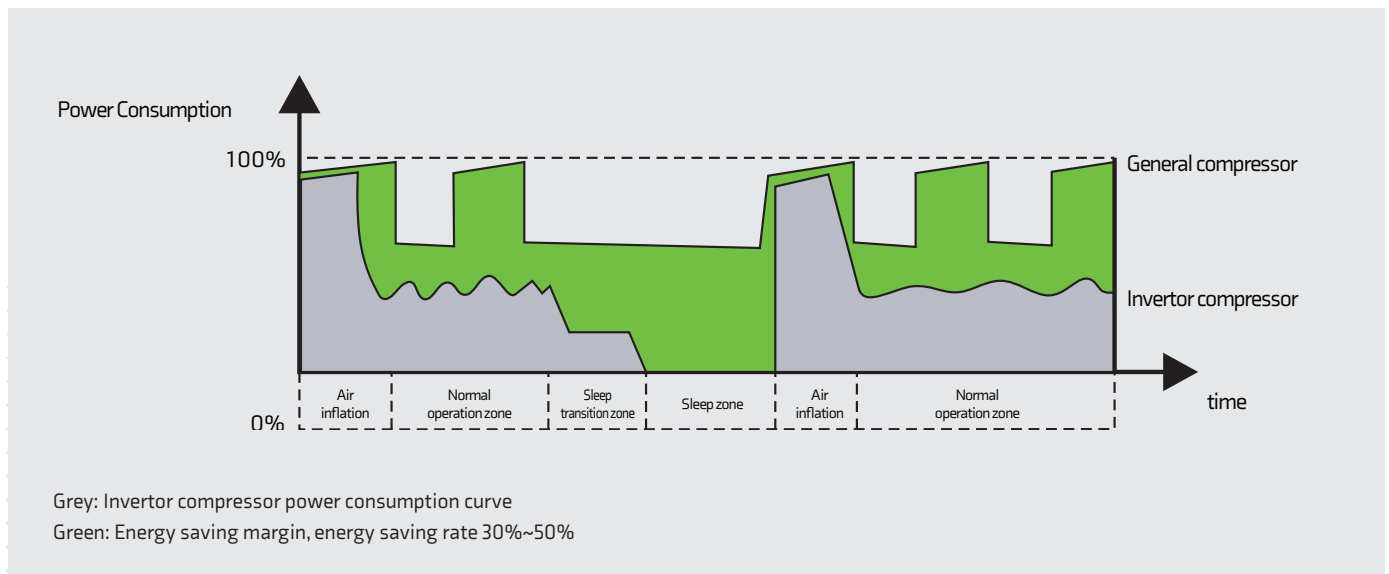
Solution features

- High performance speed sensor-less vector control technology. High efficiency low energy consuming, energy saving rate can reach max. 50%. Special integrated design to adapt with air compressor operation characteristics, completely change the traditional mode of general purpose drive + special controller
- Vector control speed stabilization precision is 0.2%, quickly and accurately response to pressure variation, close-loop constant air supply precision can reach $\pm 0.01\text{MPa}$;
- High startup torque can fully support compressor fully loading starting up.
- Superior overload capacity, wider speed control range, can fully satisfied air system temporary overload requirement
- Superior software and hardware protection ensures compressor system reliability and stability.
- Steady starting and operating, no impact for power grid, low wear, long life, and low noise.



Solution advantages

- Constant pressure control: Inbuilt high efficiency PID algorithm, quick response to air demand;
- Frequency conversion/power frequency switching: ensure non-stopping air supply;
- Intelligent system: Timing control, Automatic sleep, Automatic wake-up and other functions
- Cascade control: multiple air compressors supply gas at the same time, automatic allocation of working hours and output power
- User interface: optional text display keypad and touch screen graphic screen.



Machine tool industry solution

Solution features

- Variable V/F and vector control modes are applicable for various machine tools, e.g.: lathe, miller, driller, grinder, and carving machine, etc.;
- Unique digital signal tiny pulse harmonic control technology ensures super quiet operation;
- Variable speed command channels: current/ voltage analog input, pulse input, communication input.



Solution advantages

- High torque at low frequency: Reduce 90% during cutting compared with open-loop control, satisfied machine tools' principle axis low speed heavy cutting requirement;
- High speed stabilization precision: speed stabilization precision is 0.02% of rated speed, speed fluctuation is small;
- Reliable operation control: inbuilt torque limitation and over voltage protection avoid trip;
- Quick dynamic response: dynamic torque response time < 20ms, small speed fluctuation during instant upload or unload;
- Superior overload capacity: 150% rated current 1min, 200% rated current 0.5s.

Solution for Application of Industrial Washing Machine

Solution features

- The application has strong adaptability for the input voltage and can also be used under the condition of instantaneous fluctuation of 20% rated voltage;
- The size is equivalent to 70% of that of other VFD with the same power, which facilitates the installation;
- The thickened cover enhanced by triple-protection treatment process and optional dust-proof cover plates make the products more reliable in harsh environment;
- The migration functions of parameters are supported by the operation panels, significantly simplifying the commission and maintenance work.



Solution advantages

- Low frequency and large torque: It can output 0.50Hz 180% rated torque, suitable for start-up with load;
- Reliable operation control: built-in torque limit and undervoltage and overvoltage regulation;
- Perfect four-quadrant control technology supports forward and reverse rotation and fast acceleration and deceleration, supporting the frequent forward and reverse rotation direction changes during washing;
- The voltage and current regulation technology under the constant power of the motor enables the motor to work stably at high frequency, which is suitable for high-speed dehydration.

Torque motor substitution solution

Solution features

- Significant energy saving effect and reliable operation, without extra heat loss, extend system working life;
- No requirement for extra encoder, saving cost and completely immune external interference;
- Retrofit system will not change original operation behavior;
- Steady torque output, reliable operation.



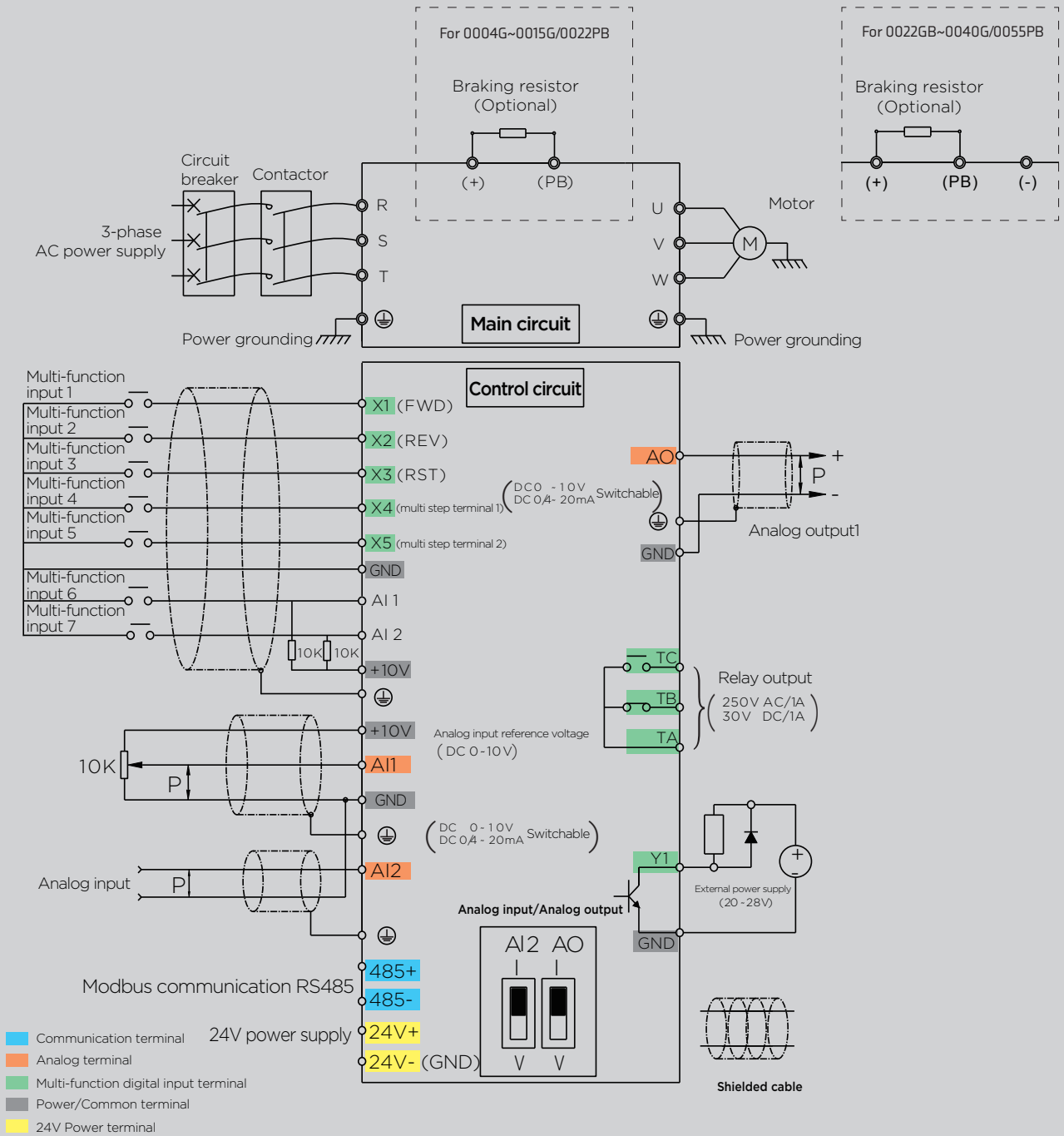
Solution advantages

- Superior overload capacity: 150% rated current 1min, 200% rated current 0.5s;
- High torque at low frequency: 180% rated torque at 0.5Hz;
- Reliable operation control: inbuilt torque limitation and overvoltage adjustment, avoid trip;
- Quick dynamic response: dynamic torque response time < 20ms, small speed fluctuation during instant upload or unload;
- Synchronized winding: high performance open-loop vector control, ensure post stage winding speed follows the forestage winding at any time.
- Full lap start/stop: drive startup torque high and stable even under full lap condition with highest inertia, automatic torque output compensation according to roll diameter variation;
- Whole speed range operation: winding motor can stably operate at extra low speed (0.5Hz) and relatively high speed, even in motor constant power zone.

NE200 series drive technical specifications:

| | | | | |
|-----------------------|---|--|---------------------------------|-------------|
| Input | Rated power/ frequency | NE200-2Sxxxx: 1-phase 200V ~ 240V; 50Hz/60Hz NE200-4Txxxx: 3-phase 380V ~ 440V; 50Hz/60Hz | | |
| | Voltage range | NE200-2Sxxxx: 176V ~ 264V; Voltage unbalance degree: ≤ 3% ; permissible frequency fluctuation: ±5% NE200-4Txxxx: 304V ~ 456V; Voltage unbalance degree: ≤ 3% ; permissible frequency fluctuation: ±5% | | |
| Output | Voltage range | NE200-2Sxxxx: 0~200V/440V; NE200-4Txxxx: 0~380V/440V | | |
| | Overload capacity | Type G: 150% rated current 1min, 180% rated current 20s Type P: 120% rated current 1min, 150% rated current 1s | | |
| Control features | Control mode | Vector control with PG (VC) | Vector control without PG (SVC) | V/F control |
| | Startup torque | --- | 0.5Hz 150% | 1.5Hz 150% |
| | Speed adjustable range | --- | 1:100 | 1:50 |
| | Speed Precision | --- | ± 0.2% | ± 0.5% |
| | Torque control | --- | Yes | N/A |
| | Torque precision | --- | ± 10% | --- |
| | Torque response time | --- | <20ms | --- |
| Product functions | Key functions | Torque/speed control mode switching, Multi-function input/ output terminals, under voltage regulation, AC operation grounding switching, torque limit, multi step operation, slip compensation, PID regulation, simple PLC, current control, manual/ automatic torque boost, current limit, AVR function | | |
| | Frequency setup | Keypad, terminal Up/Down, Communication, Analog input AI1/AI2 | | |
| | Output frequency | 0.00~550.0Hz | | |
| | Startup frequency | 0.00~60.00Hz | | |
| | Acc/Dec time | 0.01~3600.0s | | |
| | Dynamic braking | 400V drive: braking unit action voltage: 650 ~ 750V; 200V drive: braking unit action voltage: 360 ~ 390V; | | |
| | DC injection braking | DC braking activation frequency: 0.00 ~ 550.0Hz | | |
| | | DC braking current: G type 0.0 ~ 100.0%; P type 0.0 ~ 80.0% DC braking time: 0.0 ~ 30.0s; Quick DC brake activation without lag time | | |
| Magnetic flux braking | Fast deceleration through adding motor magnetic flux | | | |
| Unique functions | Parameter cloning | Parameter upload, download. User can forbid the overwriting of the uploaded parameters. | | |
| Protection function | Power undervoltage/overvoltage protection, overcurrent protection, IGBT protection, heatsink overheat protection, drive overload protection, motor overload protection, External devices faults protection, output phase-to-phase short-circuit protection, Abnormal power failure in running, power supply trip, output phase loss, EEPROM trip, Analog input trip, communication trip, version compatibility trip, cloning trip, hardware overload protection | | | |
| Environment | Application environment | Vertical installation in well ventilated cabinet. Horizontal or other installation are forbidden. The cooling medium is air. Free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam, and water drop. | | |
| | Ambient temperature | -10~+40°C, deration is required from 40 to 50°C, rated output current decreasing 1% per 1°C temperature higher | | |
| | Humidity | 5~95% without condensation | | |
| | Altitude | 0~2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 100m higher | | |
| | Vibration | 3.5mm, 2~9Hz; 10 m/s ² , 9~200Hz; 15 m/s ² , 200~500Hz | | |
| Structure | Storage temperature | -40~+70°C | | |
| | Protection level | IP20 | | |
| | Cooling | Fan air cooling | | |

NE200 TERMINAL DIAGRAM



Note 1: NE200 equip braking unit
 Note 2: X1~X5 voltage range: 0~12V



Main circuit input / output terminals

NE200 have two types of main circuit terminals, please check your drive model with tables below :

1. NE200-2S0004GB, NE200-2S0007GB, NE200-2S0015GB, NE200-4T0007G/0015PB,
NE200-4T0015G/0022PB

| | | | | | | | | | |
|--|---|---|---|-----|----|---|---|---|--|
| | | | | | | | | | |
| | R | S | T | (+) | PB | U | V | W | |

| Terminal symbol | Terminal type and description |
|-----------------|---|
| | Grounding terminal PE |
| R,S | 1- phase AC input terminals |
| R,S,T | 3-phase AC input terminals |
| (+),PB | Terminals reserved for braking resistor |
| U,V,W | 3-phase AC output terminals |

2. NE200-2S0022GB, NE200-4T0022G/0040PB, NE200-4T0040G/0055PB

| | | | | | | | | | |
|--|---|---|---|-----|-----|----|---|---|---|
| | | | | | | | | | |
| | R | S | T | (-) | (+) | PB | U | V | W |

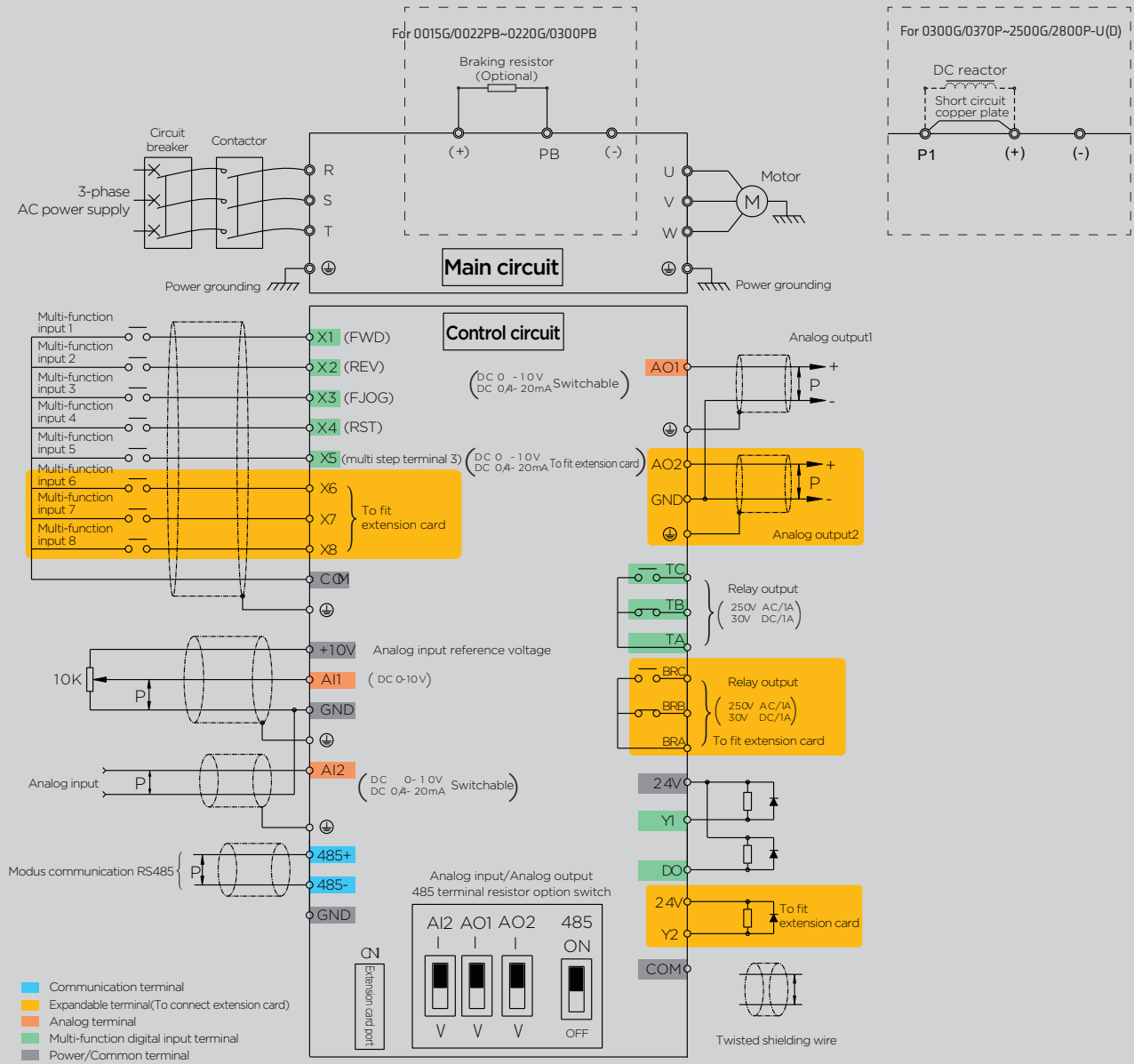
| Terminal symbol | Terminal type and description |
|-----------------|--|
| | Grounding terminal PE |
| R,S | 1- phase AC input terminals |
| R,S,T | 3-phase AC input terminals |
| (+),(-) | DC bus negative and positive terminals for common DC bus input |
| (+),PB | Terminals reserved for braking resistor |
| U,V,W | 3-phase AC output terminals |

NE300 series drive technical specifications:

| | | | | |
|-----------------------|---|--|---|-------------|
| Input | Rated power/ frequency | 3-phase 380V ~ 440V; 50Hz/60Hz | | |
| | Voltage range | 304V ~ 456V; Voltage unbalance degree: $\leq 3\%$; Permissible frequency fluctuation: $\pm 5\%$ | | |
| Output | Voltage range | 0~380V/440V | | |
| | Overload capacity | Type G: 150% rated current 1min, 180% rated current 20s Type P: 120% rated current for 1min, 150% rated current for 1s | | |
| Control features | Control mode | Vector control with PG(VC) | Vector control without PG(SVC) | V/F control |
| | Startup torque | 0.00Hz 180% | 0.5Hz 150% | 1.5Hz 150% |
| | Speed adjust range | 1:1000 | 1:100 | 1:50 |
| | Speed stabilization precision | $\pm 0.02\%$ | $\pm 0.2\%$ | $\pm 0.5\%$ |
| | Torque control | Yes | Yes | N/A |
| | Torque precision | $\pm 5\%$ | $\pm 10\%$ | --- |
| | Torque response time | <10ms | <20ms | --- |
| | Product functions | Key functions | Torque/speed control switching, Multi-function input/ output terminals, under voltage regulation, AC operation grounding switching, flying start, torque limit, multi speed operation, autotune, S curve Acc/Dec, slip compensation, PID regulation, simple PLC, fix length control, droop control, current control, manual/ automatic torque increase, current limit, AVR function | |
| Frequency setup | | Keypad, terminal Up/Down, communication, Analog input AI1/AI2, Terminal pulse input X4,X5 | | |
| Output frequency | | 0.00~550.0Hz | | |
| Startup frequency | | 0.00~60.00Hz | | |
| Acc/Dec time | | 0.1~3600s | | |
| Dynamic braking | | 400V drive: braking unit voltage: 650 ~ 750V; 200V drive: braking unit voltage: 360 ~ 390V; | | |
| DC injection braking | | DC braking activation: 0.00 ~ 550.0Hz DC braking current: G type 0.0 ~ 100.0%; P type 0.0 ~ 80.0% DC braking time: 0.0 ~ 30.0s; Quick DC brake activation without lag time | | |
| Magnetic flux braking | | Fast deceleration through adding motor magnetic flux | | |
| Unique functions | Parameter cloning | Parameter upload, download. User can forbid the overwriting of the uploaded parameters. | | |
| | Keypad | LED keypad as standard. | | |
| | Common DC bus | Common DC bus for multiple drives power supply | | |
| | Independent air duct | Independent air duct design for whole series product | | |
| | Extension card | IO extension card, injection molding machine connecting card etc. | | |
| Protection function | Power-up detection Automatic detection of internal and external circuits when power-up | | | |
| Efficiency | Power undervoltage/overvoltage protection, overcurrent protection, autotune trip, IGBT protection, heatsink overheat protection, drive overload protection, motor overload protection, external device false protection, output to ground short-circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact error, temperature sampling abnormal, encoder off-line, analog input trip, communication trip, version compatibility trip, cloning trip, extension card connection trip, hardware overload protection | | | |
| Environment | Efficiency | Operation at rated power: 7.5kW or below $\geq 93\%$; 11kW~45kW $\geq 95\%$; 55kW or above $\geq 98\%$ | | |
| | Application environment | Vertical installation in well ventilated cabinet. Horizontal or other installation are forbidden. The cooling medium is air. Free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam, and water drop. | | |
| | Ambient temperature | -10°C~+40°C, deration is required from 40 to 50°C, rated output current decreasing 1% per 1°C temperature higher | | |
| | Humidity | 5~95% without condensation | | |
| | Altitude | 0~2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 100m higher | | |
| Structure | Vibration | 3.5mm, 2~9Hz; 10 m/s ² , 9~200Hz; 15 m/s ² , 200~500Hz | | |
| | Storage temperature | -40~+70°C | | |
| | Protection level | IP20 | | |
| | Cooling | Fan force cooling | | |

*Please consult our company for vector control drive with PG model selection.

NE300 TERMINAL DIAGRAM



Terminal connection

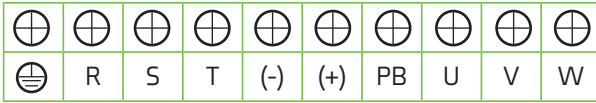
Note 1: NE300-4T0015G/0022PB ~ NE300-4T0220G/0300PB equip braking unit

Note 2: NE300-4T1600G/1850P-F ~ NE300-4T9000G-F equip DC reactor

Main circuit input / output terminals

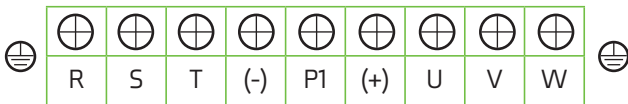
NE300 have five types of main circuit terminals, check your drive model with tables below :

1, NE300-4T0015G/0022PB ~ NE300-4T0220G/0300PB



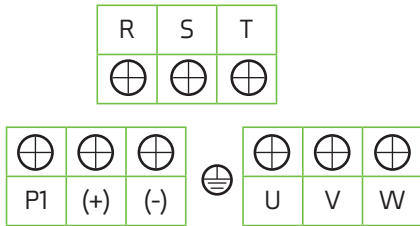
| Terminal symbol | Terminal type and description |
|-----------------|--|
| | Grounding terminal PE |
| R, S, T | 3-phase AC input terminals |
| (-), (+) | DC bus negative and positive terminals for common DC bus input |
| (+), PB | Terminals reserved for braking resistor |
| U, V, W | 3-phase AC output terminal |

2, NE300-4T0300G/0370P ~ NE300-4T1100G/1320P



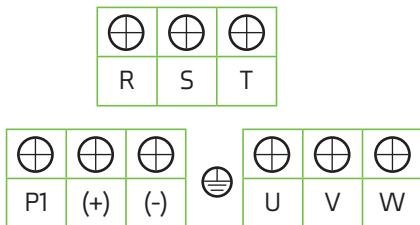
| Terminal symbol | Terminal type and description |
|-----------------|--|
| | Grounding terminal PE |
| R, S, T | 3-phase AC input terminals |
| (-), (+) | DC bus negative and positive terminals for common DC bus input |
| P1, (+) | Reserved for DC reactor connecting terminals; Short circuited with copper plate as factory setting |
| U, V, W | 3-phase AC output terminals |

3, NE300-4T1320G/1600PB-U ~ NE300-4T2500G/2800PB-U



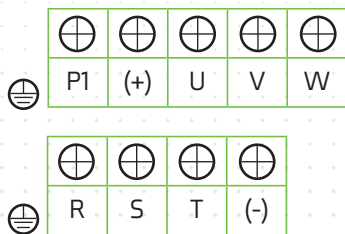
| Terminal symbol | Terminal type and description |
|-----------------|--|
| | Grounding terminal PE |
| R, S, T | 3-phase AC input terminals |
| (-), (+) | DC bus negative and positive terminals for common DC bus input |
| P1, (+) | Reserved for DC reactor connecting terminals; Short circuited with copper plate as factory setting |
| U, V, W | 3-phase AC output terminals |

4, NE300-4T1320G/1600PB-D ~ NE300-4T2500G/2800PB-D



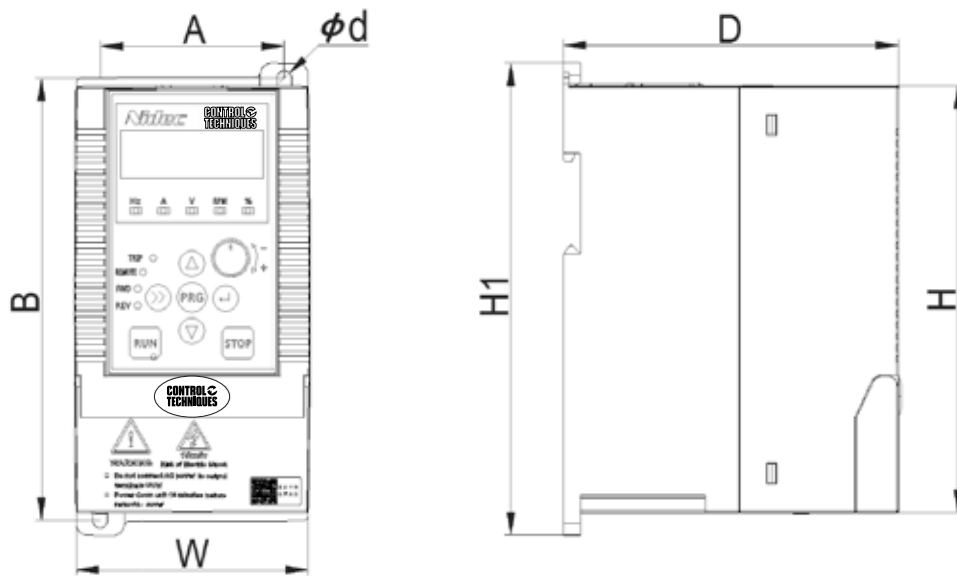
| Terminal symbol | Terminal type and description |
|-----------------|---|
| | Grounding terminal PE |
| R, S, T | 3-phase AC input terminals |
| (-), (+) | DC bus negative and positive terminals, common DC bus input |
| P1, (+) | DC reactor reserved terminals, default connected by copper busbar |
| U, V, W | 3-phase AC output terminals |

5, NE300-4T1600G/1850PB -F~ NE300-4T8000G/9000PB-F



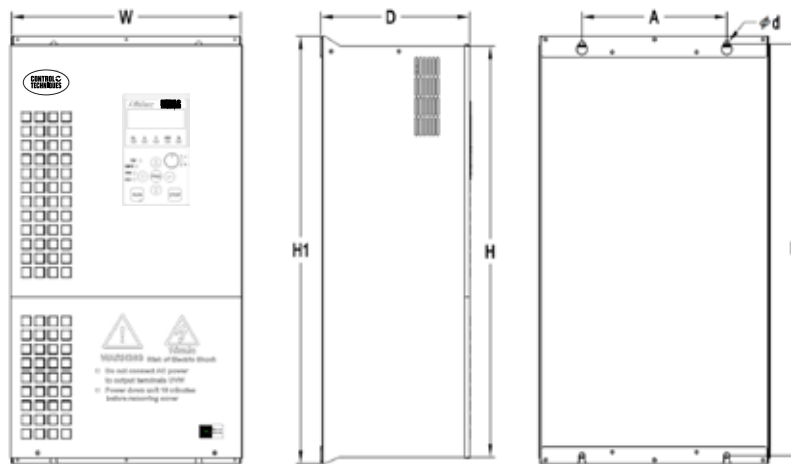
| Terminal symbol | Terminal type and description |
|-----------------|--|
| | Grounding terminal PE |
| R, S, T | 3-phase AC input terminals |
| (-), (+) | DC bus negative and positive terminals for common DC bus input |
| P1, (+) | Reserved for DC reactor connecting terminals; Short circuited with copper plate as factory setting |
| U, V, W | 3-phase AC output terminals |

NE200 DIMENSIONS & WEIGHTS



| Drive model G: Heavy Duty P: Normal Duty | Order code | Rated output current (A) | Motor power (KW) | H Height (mm) | W Width (mm) | D Depth (mm) | H1 Height (mm) | A (mm) | B (mm) | d (mm) |
|--|------------|--------------------------|------------------|------------------|-----------------|-----------------|-------------------|-----------|-----------|-----------|
| NE200-2S0004GB | 01189010_E | 2.5 | 0.4 | 150 | 83 | 120 | 166 | 65 | 153 | 5 |
| NE200-2S0007GB | 01189011_E | 4.5 | 0.75 | | | | | | | |
| NE200-2S0015GB | 01189012_E | 7 | 1.5 | | | | | | | |
| NE200-4T0007G/015PB | 01189013_E | 2.5/4.0 | 0.75/1.5 | | | | | | | |
| NE200-4T0015G/0022PB | 01189014_E | 4.0/6.0 | 1.5/2.2 | | | | | | | |
| NE200-4T0022GB-M | 01189015_E | 6.0 | 2.2 | | | | | | | |
| NE200-2S0022GB | 01189016_E | 10 | 2.2 | | | | | | | |
| NE200-4T0022G/0040PB | 01189018_E | 6.0/9.0 | 2.2/4.0 | 200 | 120 | 140 | 215 | 98 | 202 | 5 |
| NE200-4T0040G/0055PB | 01189019_E | 9.0/13 | 4.0/5.5 | | | | | | | |

NE300 DIMENSIONS & WEIGHTS



| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | H Height (mm) | W Width (mm) | D Depth (mm) | H1 Height (mm) | A (mm) | B (mm) | d (mm) |
|--|-----------------------------|---------------------|---------------------|--------------------|--------------------|----------------------|-----------|-----------|-----------|
| NE300-4T0015G/0022PB | 4.0/6.0 | 1.5/2.2 | | | | | | | |
| NE300-4T0022G/0040PB | 6.0/9.0 | 2.2/4.0 | 210 | 133 | 180 | 238 | 108 | 225 | 7 |
| NE300-4T0040G/0055PB | 9.0/13 | 4.0/5.5 | | | | | | | |
| NE300-4T0055G/0075PB | 13/17 | 5.5/7.5 | | | | | | | |
| NE300-4T0075G/0110PB | 17/25 | 7.5/11 | 258 | 155 | 180 | 285 | 120 | 270 | 7 |
| NE300-4T0110G/0150PB | 25/32 | 11/15 | | | | | | | |
| NE300-4T0150G/0185PB | 32/37 | 15/18.5 | | | | | | | |
| NE300-4T0185G/0220PB | 37/45 | 18.5/22 | 308 | 192 | 186 | 340 | 150 | 323 | 7 |
| NE300-4T0220G/0300PB | 45/60 | 22/30 | | | | | | | |
| NE300-4T0300G/0370P | 60/75 | 30/37 | 425 | 270 | 200 | 450 | 200 | 430 | 7 |
| NE300-4T0370G/0450P | 75/90 | 37/45 | | | | | | | |
| NE300-4T0450G/0550P | 90/110 | 45/55 | 535 | 320 | 248 | 560 | 240 | 540 | 9 |
| NE300-4T0550G/0750P | 110/150 | 55/75 | | | | | | | |
| NE300-4T0750G/0900P | 150/176 | 75/90 | | | | | | | |
| NE300-4T0900G/1100P | 176/210 | 90/110 | 640 | 380 | 248 | 665 | 240 | 640 | 9 |
| NE300-4T1100G/1320P | 210/250 | 110/132 | | | | | | | |

* Specialized drive and Vector control with PG card (VC) model selection, please consult our company for detail.

NE300 order code and dimension:

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | H Height (mm) | W Width (mm) | D Depth (mm) | H1 Height (mm) | A (mm) | B (mm) | d (mm) |
|--|-----------------------------|---------------------|---------------------|--------------------|--------------------|----------------------|-----------|-----------|-----------|
| NE300-4T1320G/1600P-U | 250/300 | 132/160 | 710 | 465 | 355 | 750 | 380 | 719 | 11 |
| NE300-4T1320G/1600P-D | 250/300 | 132/160 | | | | | | | |
| NE300-4T1600G/1850P-U | 300/340 | 160/185 | | | | | | | |
| NE300-4T1600G/1850P-D | 300/340 | 160/185 | | | | | | | |
| NE300-4T1850G/2000P-U | 340/380 | 185/200 | 859 | 550 | 385 | 900 | 440 | 868 | 11 |
| NE300-4T1850G/2000P-D | 340/380 | 185/200 | | | | | | | |
| NE300-4T2000G/2200P-U | 380/420 | 200/220 | | | | | | | |
| NE300-4T2000G/2200P-D | 380/420 | 200/220 | | | | | | | |
| NE300-4T2200G/2500P-U | 420/470 | 220/250 | | | | | | | |
| NE300-4T2200G/2500P-D | 420/470 | 220/250 | | | | | | | |
| NE300-4T2500G/2800P-U | 470/540 | 250/280 | 1800 | 780 | 500 | 1870 | 840 | 1630 | 13 |
| NE300-4T2500G/2800P-D | 470/540 | 250/280 | | | | | | | |
| NE300-4T3550G/4000P-F | 660/730 | 355/400 | | | | | | | |
| NE300-4T4000G/4500P-F | 730/840 | 400/450 | | | | | | | |
| NE300-4T4500G/5000P-F | 840/900 | 450/500 | | | | | | | |
| NE300-4T5000G/5600P-F | 900/950 | 500/560 | | | | | | | |
| NE300-4T5600G/6300P-F | 950/1160 | 560/630 | | | | | | | |
| NE300-4T6300G/7100P-F | 1160/1300 | 630/710 | | | | | | | |
| NE300-4T7100G/8000P-F | 1300/1460 | 710/800 | | | | | | | |
| NE300-4T8000G/9000P-F | 1460/1640 | 800/900 | | | | | | | |
| NE300-4T9000G-F | 1640 | 900 | 1800 | 1560 | 500 | 1800 | — | — | — |

NE300 series cabinet machine model and dimension:

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | Dimensions |
|--|-----------------------------|---------------------|------------|
| NE300-4T1600G/1850P-F | 300/340 | 160/185 | |
| NE300-4T1850G/2000P-F | 340/380 | 185/200 | |
| NE300-4T2000G/2200P-F | 380/420 | 200/220 | |
| NE300-4T2200G/2500P-F | 420/470 | 220/250 | |

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | Dimensions |
|--|-----------------------------|---------------------|------------|
| NE300-4T2500G/2800P-F | 470/540 | 250/280 | |
| NE300-4T2800G/3150P-F | 540/600 | 280/315 | |
| NE300-4T3150G/3550P-F | 600/660 | 315/355 | |

NE300 series cabinet machine model and dimension:

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | Dimensions |
|--|-----------------------------|---------------------|------------|
| NE300-4T3550G/4000P-F | 660/730 | 355/400 | |
| NE300-4T4000G/4500P-F | 730/840 | 400/450 | |
| NE300-4T4500G/5000P-F | 840/900 | 450/500 | |
| NE300-4T5000G/5600P-F | 900/950 | 500/560 | |

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | Dimensions |
|--|-----------------------------|---------------------|------------|
| NE300-4T5600G/6300P-F | 950/1160 | 560/630 | |
| NE300-4T6300G/7100P-F | 1160/1300 | 630/710 | |
| NE300-4T7100G/8000P-F | 1300/1460 | 710/800 | |
| NE300-4T8000G/9000P-F | 1460/1640 | 800/900 | |

| Drive model G: Heavy Duty P: Normal Duty | Rated output current (A) | Motor power (KW) | Dimensions |
|--|-----------------------------|---------------------|------------|
| NE300-4T9000G-F | 1640 | 900 | |

*-F freestanding drive with DC reactor inbuilt;

*-U upside input downside output type wall mounting structure;

*-D downside input upside output type wall mounting structure.

* Specialized drive and Vector control with PG card model selection, please consult our company for detail.

Product Model description

| | | | |
|---|--|--|--|
| <p>NE300 -</p> <p style="text-align: center;">⋮</p> <p>4T</p> <p style="text-align: center;">⋮</p> <p>1320</p> <p style="text-align: center;">⋮</p> <p>G</p> <p style="text-align: center;">⋮</p> <p>B</p> <p style="text-align: center;">⋮</p> <p>-</p> <p style="text-align: center;">⋮</p> <p>U</p> | <p>Voltage rating: 2S -- 200V~240V 4T -- 380V~440V</p> | <p>Load type: G -- Heavy duty P -- Normal duty</p> | <p>Structure code: None -- Standard M -- Compact U -- top input-bottom output D -- bottom input—top output F -- cubicle</p> |
| <p>Product series: NE200 NE300</p> | <p>Power rating: 0004 -- (0.4KW) 0007 -- (0.75KW) 0015 -- (1.5KW) 1320 -- (132KW) 9000 -- (900KW)</p> | <p>Braking unit: None -- No braking unit B -- With braking unit</p> | |

Note: Some types of NE200 and NE300 products are dual rated e.g. NE300-4T0185G/0220PB

Keypad

| | Order code | Specification | Drive model |
|---------------|------------|---------------|-------------|
| LED Keypad | NEF-LED01 | Standard | NE200/NE300 |
| LCD Keypad | NEF-LCD01 | Optional | NE200/NE300 |
| Keypad holder | NEF-KB01 | Optional | NE200/NE300 |
| Keypad cable | NEF-CB0020 | 2m(Optional) | NE200/NE300 |
| Keypad cable | NEF-CB0030 | 3m(Optional) | NE200/NE300 |



NEF-LED01

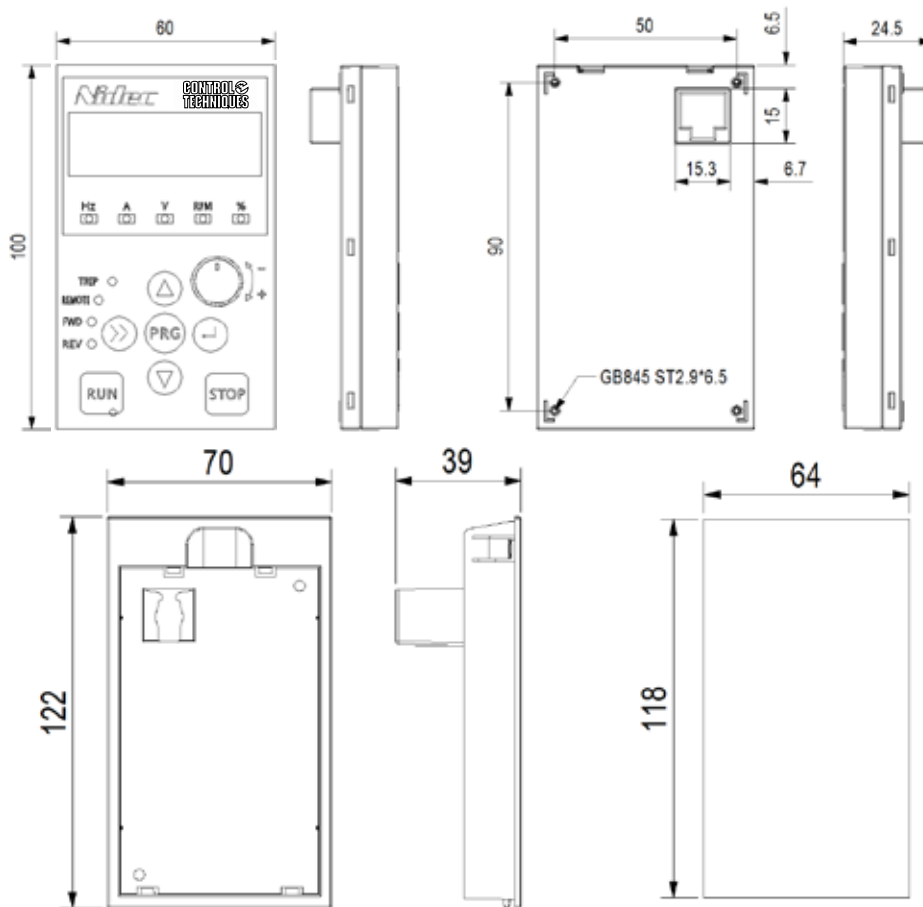


NEF-LCD01



NEF-KB01

LED keypad display and keypad holder dimensions: (mm)



Braking resistor
NE200 braking resistor

| Drive model | Braking unit | Braking resistor | | Braking torque % | |
|----------------------|---------------------|------------------|----------|------------------|-----|
| | | Braking resistor | Quantity | | |
| NE200-2S0004GB | Inbuilt as standard | 100W | 200Ω | 1 | 135 |
| NE200-2S0007GB | | 200W | 150Ω | 1 | 135 |
| NE200-2S0015GB | | 400W | 100Ω | 1 | 125 |
| NE200-2S0022GB | | 300W | 70Ω | 1 | 125 |
| NE200-4T0007G/0015PB | | 400W | 300Ω | 1 | 135 |
| NE200-4T0015G/0022PB | | 400W | 300Ω | 1 | 135 |
| NE200-4T0022GB-M | | 500W | 200Ω | 1 | 135 |
| NE200-4T0022G/0040PB | | 500W | 200Ω | 1 | 135 |
| NE200-4T0040G/0055PB | | 500W | 200Ω | 1 | 135 |

NE300 braking resistor

| Drive model | Braking unit | Braking resistor | | | Braking torque % |
|-----------------------|---------------------|------------------|----------|-----|------------------|
| | | Braking resistor | Quantity | | |
| NE300-4T0015G/0022PB | Inbuilt as standard | 400W | 300Ω | 1 | 135 |
| NE300-4T0022G/0040PB | | 500W | 200Ω | 1 | 135 |
| NE300-4T0040G/0055PB | | 500W | 200Ω | 1 | 135 |
| NE300-4T0055G/0075PB | | 500W | 100Ω | 1 | 135 |
| NE300-4T0075G/0110PB | | 800W | 75Ω | 1 | 130 |
| NE300-4T0110G/0150PB | | 1000W | 50Ω | 1 | 135 |
| NE300-4T0150G/0185PB | | 1500W | 40Ω | 1 | 125 |
| NE300-4T0185G/0220PB | | 4000W | 30Ω | 1 | 125 |
| NE300-4T0220G/0300PB | | 4000W | 30Ω | 1 | 125 |
| NE300-4T0300G/0370P | | 6000W | 20Ω | 1 | 125 |
| NE300-4T0370G/0450P | 9000W | 16Ω | 1 | 125 | |
| NE300-4T0450G/0550P | 9000W | 13.6Ω | 1 | 125 | |
| NE300-4T0550G/0750P | 6000W | 20Ω | 2 | 135 | |
| NE300-4T0750G/0900P | 9000W | 13.6Ω | 2 | 145 | |
| NE300-4T0900G/1100P | 6000W | 20Ω | 3 | 130 | |
| NE300-4T1100G/1320P | 6000W | 20Ω | 3 | 130 | |
| NE300-4T1320G/1600P-U | 6000W | 20Ω | 4 | 130 | |
| NE300-4T1320G/1600P-D | 6000W | 20Ω | 4 | 130 | |
| NE300-4T1600G/1850P-U | 9000W | 13.6Ω | 4 | 130 | |
| NE300-4T1600G/1850P-D | 9000W | 13.6Ω | 4 | 130 | |
| NE300-4T1600G/1850P-F | 9000W | 13.6Ω | 4 | 130 | |

* Multi braking resistors parallel connection. E.g. NE300-4T0550G/0750P recommended to select 2 of 6000W, 20Ω resistors parallel connection, compound braking resistor is 12000W, 10Ω.

NE300 braking resistor

| Drive model | Braking unit | Braking resistor | | Braking torque % | |
|-----------------------|---------------|------------------|----------|------------------|-----|
| | | Braking resistor | Quantity | | |
| NE300-4T1850G/2000P-U | Need external | 9000W | 13.6Ω | 4 | 130 |
| NE300-4T1850G/2000P-D | | 9000W | 13.6Ω | 4 | 130 |
| NE300-4T1850G/2000P-F | | 9000W | 13.6Ω | 4 | 130 |
| NE300-4T2000G/2200P-U | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2000G/2200P-D | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2000G/2200P-F | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2200G/2500P-U | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2200G/2500P-D | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2200G/2500P-F | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2500G/2800P-U | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2500G/2800P-D | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2500G/2800P-F | | 9000W | 13.6Ω | 5 | 130 |
| NE300-4T2800G/3150P-F | | 9000W | 13.6Ω | 6 | 130 |
| NE300-4T3150G/3550P-F | | 9000W | 13.6Ω | 6 | 130 |
| NE300-4T3550G/4000P-F | | 40000W | 3Ω | 2 | 130 |
| NE300-4T4000G/4500P-F | | 40000W | 3Ω | 2 | 130 |
| NE300-4T4500G/5000P-F | | 60000W | 2Ω | 2 | 130 |
| NE300-4T5000G/5600P-F | | 60000W | 2Ω | 2 | 130 |
| NE300-4T5600G/6300P-F | | 60000W | 2Ω | 2 | 130 |
| NE300-4T6300G/7100P-F | | 60000W | 2Ω | 3 | 130 |
| NE300-4T7100G/8000P-F | | 60000W | 2Ω | 3 | 130 |
| NE300-4T8000G/9000P-F | | 80000W | 2Ω | 3 | 130 |
| NE300-4T9000G-F | | 80000W | 2Ω | 3 | 130 |

* Multi braking resistors parallel connection. E.g. NE300-4T0550G/0750P recommended to select 2 of 6000W, 20Ω resistors parallel connection, compound braking resistor is 12000W, 10Ω.

Input/output reactor

DC input reactor parameters

| Drive model | Drive power(KW) | DC reactor model | Current(A) | Inductance(mH) | Insulation level |
|---------------------|-----------------|------------------|------------|----------------|------------------|
| NE300-4T0300G/0370P | 30 | NE-DCL-0065-AL/4 | 65 | 0.8 | F |
| NE300-4T0370G/0450P | 37 | NE-DCL-0078-AL/4 | 78 | 0.7 | F |
| NE300-4T0450G/0550P | 45 | NE-DCL-0095-AL/4 | 95 | 0.54 | F |
| NE300-4T0550G/0750P | 55 | NE-DCL-0115-AL/4 | 120 | 0.45 | F |
| NE300-4T0750G/0900P | 75 | NE-DCL-0160-AL/4 | 160 | 0.36 | F |
| NE300-4T0900G/1100P | 90 | NE-DCL-0180-AL/4 | 180 | 0.33 | F |
| NE300-4T1100G/1320P | 110 | NE-DCL-0250-AB/4 | 250 | 0.26 | F |
| | 132 | | 340 | 0.26 | F |
| | 160 | | | 0.17 | F |
| | 185 | | | 0.09 | F |
| | 200 | | | 0.06 | F |
| | 220 | | | 0.06 | F |
| | 250 | | | 0.05 | F |

3-phase AC input reactor parameter

| Drive model | Drive power(KW) | Filter model | Reactor model | Current(A) | Voltage drop (%) | Inductance(mH) | Insulation level |
|----------------------|-----------------|-----------------|--------------------|------------|------------------|----------------|------------------|
| | 1.5 | | | 5 | 2 | 2.8 | F |
| NE200-4T0022G/0040PB | 2.2 | NE-EFI-0010/4-T | NE-ACL-0007-CL/4-2 | 7 | 2 | 2 | F |
| NE200-4T0040G/0055PB | 3.7 | NE-EFI-0015/4-T | NE-ACL-0010-CL/4-2 | 10 | 2 | 1.4 | F |
| NE300-4T0055G/0075PB | 5.5 | NE-EFI-0016/4-T | NE-ACL-0015-AL/4-2 | 15 | 2 | 0.94 | F |
| NE300-4T0075G/0110PB | 7.5 | NE-EFI-0020/4-T | NE-ACL-0020-AL/4-2 | 20 | 2 | 0.7 | F |
| NE300-4T0110G/0150PB | 11 | NE-EFI-0030/4-T | NE-ACL-0030-AL/4-2 | 30 | 2 | 0.47 | F |
| NE300-4T0150G/0185PB | 15 | NE-EFI-0045/4-T | NE-ACL-0040-AL/4-2 | 40 | 2 | 0.36 | F |
| NE300-4T0185G/0220PB | 18.5 | NE-EFI-0050/4-T | NE-ACL-0050-AL/4-2 | 50 | 2 | 0.28 | F |
| NE300-4T0220G/0300PB | 22 | NE-EFI-0060/4-T | NE-ACL-0060-AL/4-2 | 60 | 2 | 0.24 | F |
| NE300-4T0300G/0370P | 30 | NE-EFI-0080/4-T | NE-ACL-0080-AL/4-2 | 80 | 2 | 0.18 | F |
| NE300-4T0370G/0450P | 37 | | NE-ACL-0090-AL/4-2 | 90 | 2 | 0.156 | F |
| NE300-4T0450G/0550P | 45 | NE-EFI-0100/4-T | NE-ACL-0120-AL/4-2 | 120 | 2 | 0.117 | F |
| NE300-4T0550G/0750P | 55 | NE-EFI-0120/4-T | NE-ACL-0150-AL/4-2 | 150 | 2 | 0.094 | F |
| NE300-4T0750G/0900P | 75 | NE-EFI-0150/4-T | NE-ACL-0200-AL/4-2 | 200 | 2 | 0.07 | F |
| NE300-4T0900G/1100P | 90 | NE-EFI-0200/4-T | NE-ACL-0240-AB/4-2 | 240 | 2 | 0.058 | F |
| NE300-4T1100G/1320P | 110 | NE-EFI-0300/4-C | NE-ACL-0250-AB/4-2 | 250 | 2 | 0.056 | F |
| | 132 | | | 290 | 2 | 0.048 | F |
| | 160 | | | 330 | 2 | 0.042 | F |
| | 185 | | | 390 | 2 | 0.036 | F |
| | 200 | | | 490 | 2 | 0.028 | F |
| | 220 | | | 490 | 2 | 0.028 | F |
| | 250 | | | 530 | 2 | 0.026 | F |
| | 280 | | | 600 | 2 | 0.024 | F |
| | 315 | | | 660 | 2 | 0.022 | F |
| | 355 | | | 800 | 2 | 0.018 | F |
| | 400 | | | 1000 | 2 | 0.014 | F |
| | 450 | | | 1130 | 2 | 0.012 | F |
| | 500 | | | 1250 | 2 | 0.0117 | F |

3-phase AC output reactor parameter

| Drive model | Drive power(KW) | Filter model | Reactor model | Current(A) | Voltage drop (%) | Inductance(mH) | Insulation level |
|----------------------|-----------------|-----------------|--------------------|------------|------------------|----------------|------------------|
| | 1.5 | | | 5 | 1 | 1.4 | F |
| NE200-4T0022G/0040PB | 2.2 | NE-EFO-0010/4-T | NE-OCL-0007-CL/4-1 | 7 | 1 | 1 | F |
| NE200-4T0040G/0055PB | 4 | NE-EFO-0015/4-T | NE-OCL-0010-CL/4-1 | 10 | 1 | 0.7 | F |
| NE300-4T0055G/0075PB | 5.5 | NE-EFO-0016/4-T | NE-OCL-0015-AL/4-1 | 15 | 1 | 0.47 | F |
| NE300-4T0075G/0110PB | 7.5 | NE-EFO-0020/4-T | NE-OCL-0020-AL/4-1 | 20 | 1 | 0.35 | F |
| NE300-4T0110G/0150PB | 11 | NE-EFO-0030/4-T | NE-OCL-0030-AL/4-1 | 30 | 1 | 0.23 | F |
| NE300-4T0150G/0185PB | 15 | NE-EFO-0045/4-T | NE-OCL-0040-AL/4-1 | 40 | 1 | 0.18 | F |
| NE300-4T0185G/0220PB | 18.5 | NE-EFO-0050/4-T | NE-OCL-0050-AL/4-1 | 50 | 1 | 0.14 | F |
| NE300-4T0220G/0300PB | 22 | NE-EFO-0060/4-T | NE-OCL-0060-AL/4-1 | 60 | 1 | 0.12 | F |
| NE300-4T0300G/0370P | 30 | NE-EFO-0080/4-T | NE-OCL-0080-AL/4-1 | 80 | 1 | 0.087 | F |
| NE300-4T0300G/0370P | 37 | | NE-OCL-0090-AL/4-1 | 90 | 1 | 0.078 | F |
| NE300-4T0450G/0550P | 45 | NE-EFO-0100/4-T | NE-OCL-0120-AL/4-1 | 120 | 1 | 0.058 | F |
| NE300-4T0550G/0750P | 55 | NE-EFO-0120/4-T | NE-OCL-0150-AL/4-1 | 150 | 1 | 0.047 | F |
| NE300-4T0750G/0900P | 75 | NE-EFO-0150/4-T | NE-OCL-0200-AL/4-1 | 200 | 1 | 0.035 | F |
| NE300-4T0900G/1100P | 90 | NE-EFO-0200/4-T | NE-OCL-0240-AB/4-1 | 240 | 1 | 0.029 | F |
| NE300-4T1100G/1320P | 110 | NE-EFO-0300/4-C | NE-OCL-0250-AB/4-1 | 250 | 1 | 0.028 | F |
| | 132 | | | 290 | 1 | 0.024 | F |
| | 160 | | | 330 | 1 | 0.021 | F |
| | 185 | | | 390 | 1 | 0.018 | F |
| | 200 | | | 490 | 1 | 0.014 | F |
| | 220 | | | 490 | 1 | 0.014 | F |
| | 250 | | | 530 | 1 | 0.013 | F |
| | 280 | | | 600 | 1 | 0.012 | F |
| | 315 | | | 660 | 1 | 0.011 | F |
| | 355 | | | 800 | 1 | 0.009 | F |
| | 400 | | | 1000 | 1 | 0.007 | F |
| | 450 | | | 1130 | 1 | 0.006 | F |
| | 500 | | | 1250 | 1 | 0.0055 | F |

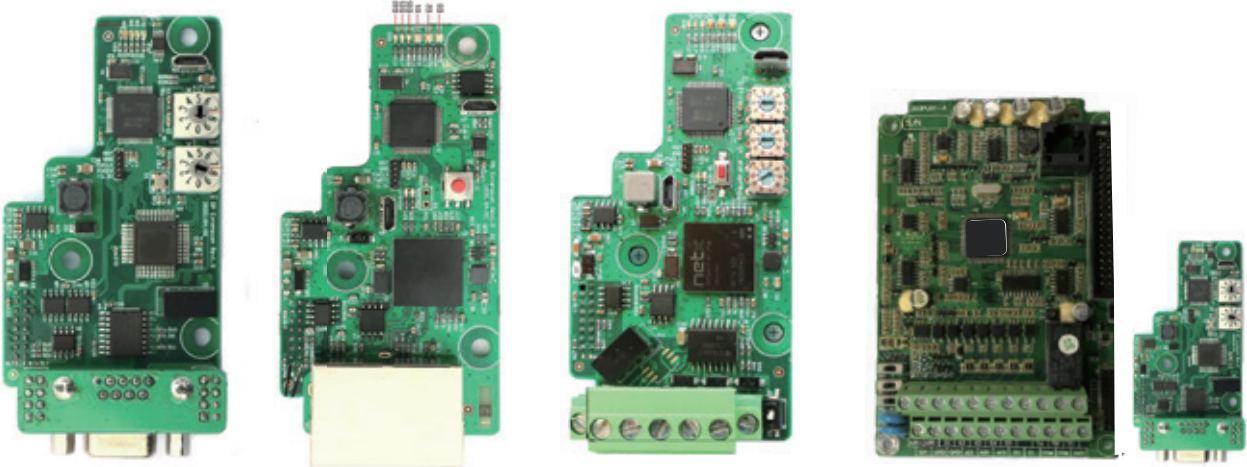
NE300 Options

| Optional card | Order code | Terminal | Description | Drive model | |
|--|----------------|--|--|--|--------------------|
| I/O extension card | NE30-I/O Lite | X6 | Multi-function input 6 (to PLC) | NE300 whole series | |
| | | X7 | Multi-function input 7 (to PLC) | | |
| | | X8 | Multi-function input 8 (to PLC) | | |
| | | Y2 | Multi-function output Y2 (to COM) | | |
| | | BRA/BRB/BRC | Relay output 2 | | |
| | | PLC | PLC common end (to PLC) | | |
| | | A02 | Analog output 2 (0 ~ 10V, 0/4 ~ 20mA selectable) | | |
| | GND | Analog output common end | | | |
| | NE30-I/O Relay | BRA/BRB/BRC | Relay output 2 | | NE300 whole series |
| | A02 | Analog output 2 (0 ~ 10V, 0/4 ~ 20mA selectable) | | | |
| Injection molding machine extension card | NE30-ZS01 | +A1 | 0-1A current input | NE300-4T0110G/0150PB ~ NE300-4T9000G-F | |
| | | -A1 | 0-1A current output | | |
| | | +A2 | 0-1A/2A current input | | |
| | | -A2 | 0-1A/2A current output | | |
| | | X6 | Multi-function input 6 (to COM) | | |
| | | COM | Multi-function input common | | |
| +/- 10V extension card | NE30-AN01 | 485+ | 485 differential signal positive | NE300 whole series | |
| | | 485- | 485 differential signal negative | | |
| | | -10V | Provide -10V to external (to GND) | | |
| | | A13 | +/- 10V analog input (to GND) | | |
| | | GND | Analog output common | | |
| Speed tracking extension card | NE30-SP01 | U | Connect to drive U-phase output | NE300-4T0015G/0022PB ~ NE300-4T0150G/0185PB | |
| | | W | Connect to drive W-phase output | | |
| CC-Link Communication card | NEF - CCLink | DA | DA Signal | NE300 whole series | |
| | | DB | DB Signal | | |
| | | DG | Signal Ground | | |
| | | SD | Shield ground | | |
| | | FG | Protected area | | |
| Profinet Communication card | NEF - Profinet | RJ45 | Two network interfaces | NE300 whole series | |
| Profibus DP | NEF - Profibus | RxD/TxD-P | Positive Data transfer | NE300 whole series | |
| | | RxD/TxD-N | Negative Data transfer | | |
| | | +5V | Power supply | | |
| | | 0V | Ground | | |
| Modbus TCP | NEF - TCP | Shield | Shield | NE300 whole series | |
| | | RJ45 | Two gateways | | |

NE Series Expansion Card



Coming soon: EtherCAT EtherNet/IP



*NE200 does not support any optional cards

THINK DRIVES, THINK CONTROL TECHNIQUES.

1K+

OEM Customers

5M+

Installed Drives

1.4K+

Employees

70

Countries



CONTROL TECHNIQUES

THE GLOBAL DRIVE

SPECIALISTS SINCE 1973

Control Techniques has been designing and manufacturing the best variable speed drives in the world since 1973.

Our customers reward our commitment to building drives that outperform the market. They trust us to deliver on time every time with our trademark outstanding service.

More than 45 years later, we're still in pursuit of the best motor control, reliability and energy efficiency you can build into a drive. That's what we promise to deliver, today and always.



Outstanding Performance

Applying our more than 45 years' engineering experience to everything we do means we outstrip the competition time and again.



Tried and Trusted

Millions of people around the world trust us knowing we're committed to unrivalled design and top build quality.



Total Flexibility

Our drives are built with open design architecture. They integrate with all primary communication protocols providing all the flexibility you could want.



Embedded Intelligence

Combining precision motor control with the highest embedded intelligence means ultimate productivity and efficiency for your machinery.



Global Reach, Local Support

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For more information, or to find your local drive centre representatives, visit:

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Registered in England and Wales. Company Reg. No. 01236886.

