NE300 series drive technical specifications:

Voltage range	Input	Rated power/ frequency	3-phase 380V - 440V; 50Hz/60Hz			
Overload capacity Speed 1909 Face 1909 Face 1909 Face 1909 Control	Input	Voltage range	304V - 456V; Voltage unbalance degree: ≤ 3% ; Permissable frequency fluctuation: ±5%			
Overload capacity Type P: 120% rated current for limit, 150% rated current or is Vector control with PGVC) Vector control without PC(SVC) Vector control without PC(SVC) Vector control without PC(SVC) Vector control or 1.594 1.50% Speed adjust range 1.1000 1.100 1.50 Speed stellization precision Torque control Torque control Torque precision Ves Ves N/A Torque precision Ves Ves N/A Torque precision Torque precision Torque precision Torque precision Torque precision Veys Ves N/A Torque precision Torque precision Torque precision Torque precision Torque precision Ves Ves N/A Torque precision Ves Ves Ves N/A Torque precision Ves Ves Ves N/A Torque precision Torque pre	Output	Voltage range	0-380V/440V			
Startup torque Speed adubitor range Speed stabilization precision Torque control Yes Yes N/A Torque precision Key functions Key functions Key functions Key functions Key functions Key functions Torque precision Frequency setup Output frequency Do-05500Hz Startup frequency Do-13600s Dynamic braking DC braking current: Gtype oo 1000/Key Ptype 0.0 - 80.0% DC braking time 0.0 - 50.0s, Quick DC brake activation without lag time Magnetic flux braking Fast deceleration through adding motor magnetic flux Parameter cloning Reviped LED keypad as standard. Common DC bus Common DC bus C		Overload capacity	31			
Speed adjust range 1:1000 1:100 1:50 Speed stabilization precision 5 precision 1		Control mode	Vector control with PG(VC)	Vector control without PG(SVC)	V/F control	
Speed stabilization		Startup torque	0.00Hz 180%	0.5Hz 150%	1.5Hz 150%	
Features Torque control Torque precision Torque precision Torque precision Torque precision Torque precision Ekey 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 foraue increase, current limit, AVR function Frequency setup Output frequency Output frequency Ou0-550.0Hz Extrup frequency Ou0-650.0Hz Acc/Dec time Ou1-360.0S Dynamic braking 400V driver braking unit voltage: 650 - 750V; Dynamic braking Dynamic br		Speed adjust range	1:1000	1:100	1:50	
Torque precision Torque response time Aloms Frequency setup Frequency setup Output frequency Independent air Output for quency Output frequency Out		•	± 0.02%	± 0.2%	± 0.5%	
Torque response time Key functions Key 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, autoture, S. curve Acc/Dec, slip compensation, PID regulation, simple PLC, fix length control, droop control, current control, manual/ automatic forque increase, current limit, AWR function Frequency setup Output frequency Ou0-550.0Hz Startup frequency Ou0-550.0Hz Startup frequency Ou0-60.0DHz Acc/Dec time Ol3-3600s Dynamic braking Ob rive braking unit voltage: 650 - 750V; 200V drive: braking unit voltage: 650 - 830V; DC training activation: 0.00 - 550.0Hz DC injection braking Dc traking 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 Reypad LED keypad as standard. Common DC bus Common DC		Torque control	Yes	Yes	N/A	
Torque/speed control switching, Multi-function input/ output terminals, under voltage regulation, AC operation grounding switching, flying start, torque limit, multi-speed operation, autotume, 5 curve Acc/ bec, slip compensation, PID regulation, smple PLC, fix length control, droop control, current control, manual/ automatic torque increase, current limit, AVR function Frequency setup Output frequency		Torque precision	± 5%	± 10%		
Product functions Rey functions Prequency setup Product functions Product functions Power-up detection Parameter coloning Frequency and product functions Parameter coloning Frequency Setup Product functions Power-up detection Product functions Parameter coloning Parameter coloning Reypad, terminal Up/Down, communication, Analog input Alt/Al2, Terminal pulse input X4,X5 OO-550.OHz Startup frequency OO-550.OHz Acc/Dec time O1-3600s 400V drive: braking unit voltage: 650 - 750V; 200V drive: braking unit voltage: 650 - 750V; 200V drive: braking unit voltage: 360 - 390V; OC braking current: 6 type 0.0 - 100.0%; P type 0.0 - 80.0% OC braking activation: 0.00 - 550.OHz Do braking time: 0.0 - 30.0s; Quick PC brake activation without lag time Magnetic flux braking Activation and time: 0.0 - 30.0s; Quick PC brake activation without lag time Parameter cloning Reypad Leb keypad as standard. Common DC bus Independent air duct Common DC bus Independent air duct design for whole series product Extension card Independent air duct design for whole series product Extension card Power-up detection Automatic detection of internal and external circuits when power-up Power undervoltage/overvoltage protection, overcurrent protection, autotume trip. IGBT protection, heatsink overheat rorection, drive overload protection, motorection, external device faise protection, output to ground short-ircuit protection, abnormal power failure in running, power supply abnormal, cutput phase loss, EEPROM trip, relay contact revire, temperature sampling abnormal, encoder off-line, analog input trip, communication are forbidden. The cooling medium is air. Free from direct sunlight, dust, corrosive gas, combustible gas, ol mist, steam, and water drop. -10°C-40°C, deration is required from note than 1000 meters, at rated output current decreasing % per 1 °C		Torque response time	<10ms	<20ms		
Output frequency 0.00-550.0Hz Startup frequency 0.00-60.00Hz Acc/Dec time 0.1-3600s 400V drive: braking unit voltage: 650 - 750V; 200V drive: braking unit voltage: 650 - 390V; DC braking activation: 0.00 - 550.0Hz DC injection braking DC braking unit voltage: 360 - 390V; DC braking activation: 0.00 - 550.0Hz DC braking activation: 0.00 - 550.0Hz DC braking activation: 0.00 - 550.0Hz DC braking time: 0.0 - 30.0s; Quick DC brake activation without lag time Magnetic flux braking Fast deceleration through adding motor magnetic flux Parameter cloning Parameter upload, download. User can forbid the overwriting of the uploaded parameters. LED keypad as standard. Common DC bus Common DC bus for multiple drives power supply Independent air duct design for whole series product duct Extension card Independent air duct design for whole series product duct Power-up detection Automatic detection of internal and external circuits when power-up Power undervoltage/overvoltage protection, overcurrent protection, autotune trip, IGBT protection, heatsink overheat protection, divide overload protection, evercurrent protection, autotune trip, IGBT protection, uptout to ground short provention in running, power supply shoppers upply abnormal, uptuable loss, EERPROM trip, relay short-incitual protection, abnormal power failure in running, power supply shoppers protection, output to ground shoppers of the power supply appears of the power supply appe		Key functions	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,			
Startup frequency 0.00-60.00Hz		Frequency setup	Keypad, terminal Up/Down, communication, Analog input Al1/Al2, Terminal pulse input X4,X5			
Forections Acc/Dec time O.1-3600s		Output frequency	0.00-550.0Hz			
Dynamic braking Doverwith the provided protection of the protection of		Startup frequency	0.00-60.00Hz			
Dynamic braking 200V drive: braking unit voltage: 360 - 390V; DC braking activation: 0.00 - 550.0Hz DC injection braking DC braking activation: 0.00 - 550.0Hz DC injection braking DC braking activation: 0.00 - 550.0Hz DC injection braking DC braking activation: 0.00 - 30.0%; Ptype 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 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 design for whole series product duct Extension card Io extension card, injection molding machine connecting card etc. Protection function function function Protection, drive overload protection, overcurrent protection, autotune trip, IGBT protection, heatsink overheat protection, drive 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 circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact circuit protection, abnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact enror, temperature ampling abnormal, encoder off-line, analog input trip, communication trip, version compatibility trip, coloning trip, extension card connection trip, hardware overload protection Operation at rated power. 7.5kW or below≥ 93%; 11kW-45kW≥ 95%; 55kW or		Acc/Dec time	0.1-3600s			
DC injection braking 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 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 design for whole series product Extension card IO extension card, injection molding machine connecting card etc. Power-up detection Protection function Protection drive overload 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 Efficiency Operation at rated power: 7.5kW or below≥ 93%; 11kW-45kW≥ 95%; 55kW or above≥ 98% Application 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. Altitude 0-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 °C temperature higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Structure Structure Protection level IP20		Dynamic braking				
Magnetic flux braking Fast deceleration through adding motor magnetic flux		DC injection braking	DC braking current: G type 0.0 - 100.0%; P type 0.0 - 80.0%			
Unique functions Variety		Magnetic flux braking				
Unique functions Common DC bus Common DC bus for multiple drives power supply		Parameter cloning	Parameter upload, download. User can forbid the overwriting of the uploaded parameters.			
Independent air duct design for whole series product Extension card Independent air duct design for whole series product Extension card IO extension card, injection molding machine connecting card etc. Power-up detection Automatic detection of internal and external circuits when power-up Protection function Power undervoltage/overvoltage protection, overcurrent protection, autotune trip, IGBT protection, heatsink overheat protection, drive overload protection, motor overload protection, autotune trip, IGBT protection, heatsink overheat protection, drive overload protection, autotune trip, IGBT protection, heatsink overheat protection, drive overload protection, autotune trip, IGBT protection, heatsink overheat protection, drive overload protection, autotune trip, IGBT protection, duction is protection, autotune trip, IGBT protection, aut		Keypad	LED keypad as standard.			
Independent air duct design for whole series product		Common DC bus	Common DC bus for multiple drives power supply			
Power-up detection Automatic detection of internal and external circuits when power-up 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 Efficiency Operation at rated power: 7.5kW or below≥ 93%; 11kW-45kW≥ 95%; 55kW or above≥ 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 1-10°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 1 00m higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Structure Structure			Independent air duct design for whole series product			
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 Efficiency Operation at rated power: 7.5kW or below≥ 93%; 11kW-45kW≥ 95%; 55kW or above≥ 98% Application environment Application environment Ambient temperature Humidity 5-95% without condensation Altitude O-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 °C temperature believed by the per 1 °C temperature by the per 1 °C temperature believed by the per 1 °C temperature by the per		Extension card	IO extension card, injection molding machine connecting card etc.			
Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function Protection function		Power-up detection	Automatic detection of internal and external circuits when power-up			
Application environment Ambient temperature Humidity S-95% without condensation 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. -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 1 00m higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Structure Protection level IP20		protection, drive ove circuit protection, ab error, temperature s	verload protection, motor overload protection, external device false protection, output to ground short- bnormal power failure in running, power supply abnormal, output phase loss, EEPROM trip, relay contact sampling abnormal, encoder off-line, analog input trip, communication trip, version compatibility trip,			
environment medium is air. Free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam, and water drop. Ambient temperature	Efficiency	Op	peration at rated power: 7.5kW or below≥ 93%; 11kW-45kW≥ 95%; 55kW or above≥ 98%			
Environment Humidity 5-95% without condensation Altitude 0-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 00m higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Storage temperature -40-+70°C Protection level IP20	Environment	environment	medium is air. Free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam, and water drop.			
Altitude 0-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 00m higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Storage temperature -40-+70°C Protection level IP20						
Altitude 0-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 00m higher Vibration 3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz Storage temperature -40-+70°C Protection level IP20		Humidity	5-95% without condensation			
Storage temperature -40-+70°C Protection level IP20		Altitude	0-2000m, deration is required for more than 1000 meters, at rated output current decreasing 1% per 1 00m higher			
Structure Protection level IP20		Vibration	3.5mm, 2-9Hz; 10 m/s², 9-200Hz; 15 m/s², 200-500Hz			
Structure		Storage temperature	-40-+70°C			
	Structure	Protection level	IP20			
		Cooling	Fan force cooling			

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