NiSTRO

Simply Works

NiSTRO

GA350 Series
Engineering AC Drive

GA350 Series

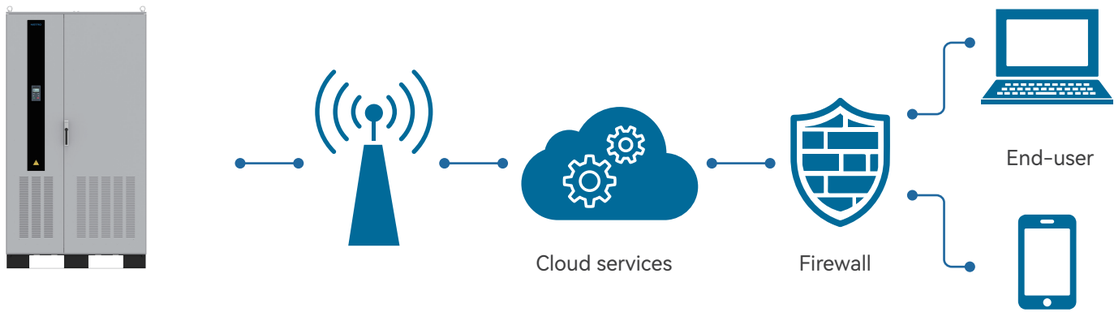
GA350 engineering drives designed for high-end industries, feature NiSTRO outer and structural design with enhanced internal upgrades:

- Compliance with RoHS standards in device selection and overall production, enhancing hardware structure and protection process for adaptability, safety, and longevity.
- Sophisticated software integrating vector control and sync. reluctance motor algorithms for versatility.
- Certified by CE and EAC for various market needs, known for high performance, reliability, and applicability.

Features

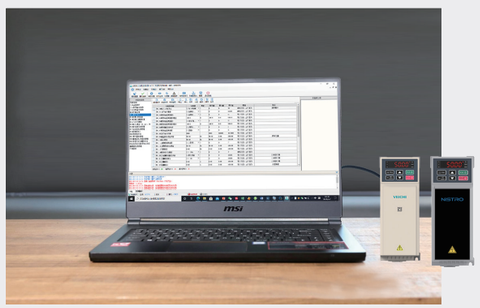
Portable cards for diverse configuration

Various NiSTRO function/communication cards are supported for different engineering needs, ensuring reliability and practicality.



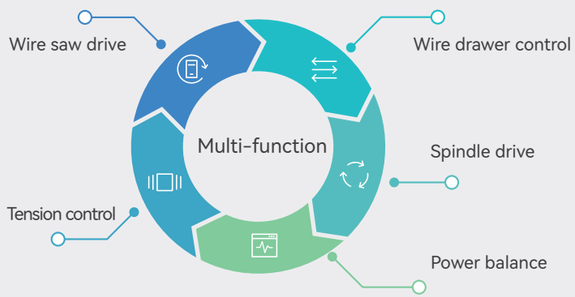
NiSTRO host PC for easy use

NiSTRO's proprietary software simplifies debugging, offering clear insights into product functions and reducing reliance on manuals and peripheral equipment.



Tailored parameters for specific industries

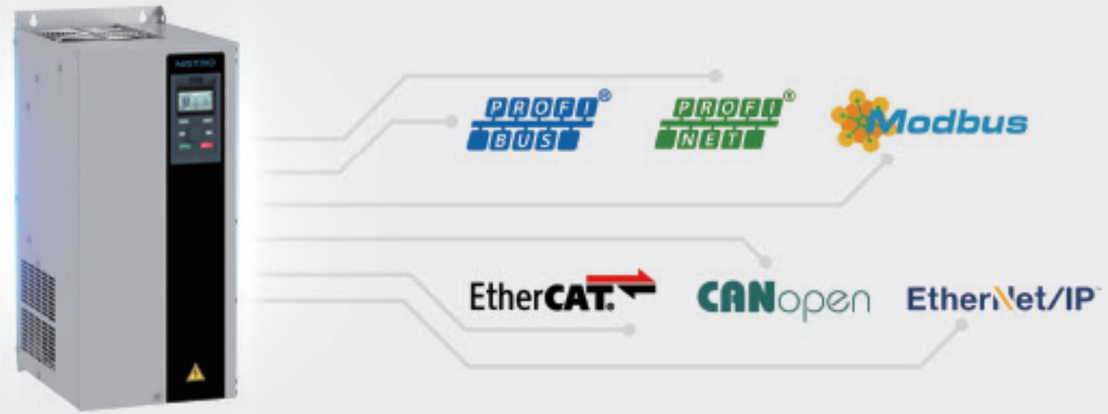
Powered by extensive industry knowledge, NiSTRO integrates various applications for quick parameter settings, meeting industry-specific needs.



NiSTRO

Expansion cards for different application

NiSTRO's expansion cards provide the product with flexible, rational selections for complex applications.



Narrow body in NiSTRO style

NiSTRO's book-style design combines aesthetics with compactness, offering more efficient space use than similar products under the same power. Its independent air duct enhances heat dissipation and protects the product against harsh environments.

Reliable components from global industry leaders

Sourcing key components from top-brand components by coding every device, and coupling with long-term partnerships ensures product stability, reliability, and a steady supply.

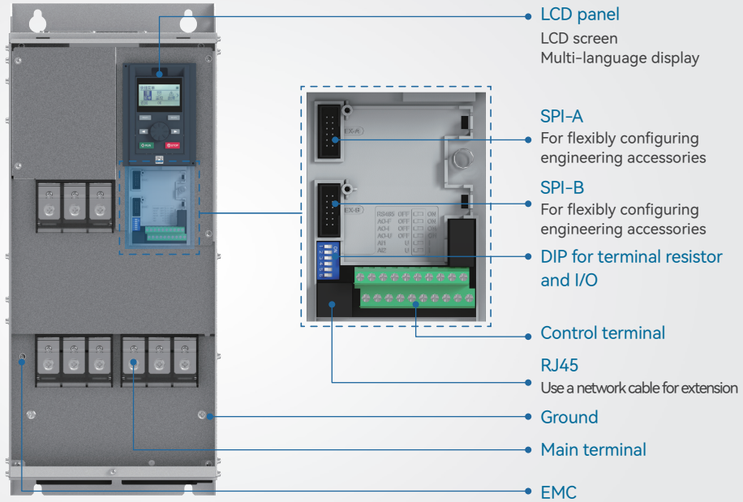
RoHS 2.0 Compliance for safer and greener drive

The GA350 series complies with RoHS standards by meticulously managing materials and production to exclude hazardous substances, meeting high industry safety and environmental benchmarks, and thus making it a secure and eco-friendly choice.

Hardware Structure

Sleek layout and easy wiring

The GA350 series boasts a compact design, offering diverse terminals, flexible setups, and efficient component layout for clear wiring, suitable for various engineering applications.



New structure design

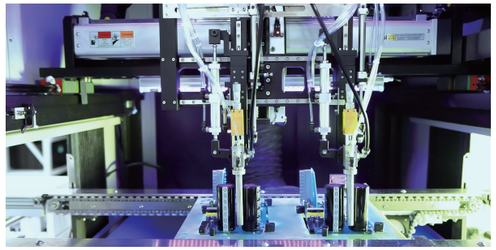
Separate design of electronics and ducts, with reinforced capacitors, MOS tubes, and relays, and a two-side sealed casing enhance the machine's environmental durability.

Large heat dissipation and swift air circulation ensure full capacity in all power segments, even at high temperatures.

Control terminal description

No.	Terminal	Reference qty.	GA350IO1	GA350IO2	Description
01	Digital input X	5x	9x	5x	Support NPN and PNP switching
02	Open collector output Y	1x	2x	1x	Default NPN output
03	Relay output	1x	2x	1x	Normally open/closed terminal block
04	Analog input AI	2x	2x	2x	0V-10V/0mA-20mA
05	Analog output AO	1x	2x	1x	0V-10V/0mA-20mA/ 0kHZ-100kHz pulse output
06	RS485 communication	2x	2x	3x	Hardware interface: RJ45 network port, A+ B- terminal wiring Support Modbus RTU protocol
07	PUL input	1x	2x	2x	X5: 0kHz~5kHz pulse input X10: 0kHz~100kHz pulse input
08	Temperature detection	None	1x	1x	

High Reliability

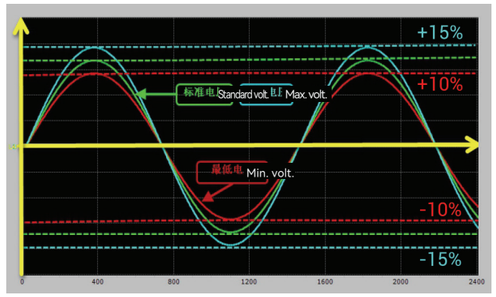


Comprehensive conformal coating

The GA350 series' PCB is coated with a 100μm-thick UV or Fuji adhesive, covering over 85% of the board for reliable operation and extended life in harsh conditions like heat, humidity, and corrosives.

Various motor/load types

The GA350 series drives support a range of motors, including three-phase asynchronous, AC servo, permanent magnet synchronous, spindle, linear, and synchronous reluctance (both pure and permanent magnet-assisted types), featuring advanced algorithms for enhanced adaptability and stability to meet diverse engineering and maintenance demands.



Wide voltage range

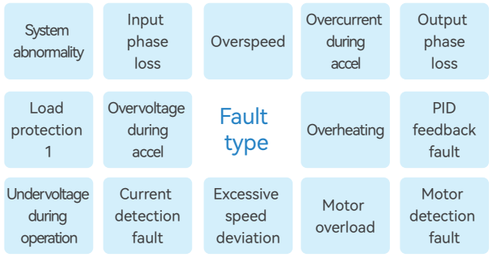
The GA350 series engineering drives accommodate complex power grids at 220VAC, 380VAC, and 690VAC, tolerating ±10% to 15% voltage fluctuations for stable operation in harsh environments.

EMC grounding disconnection

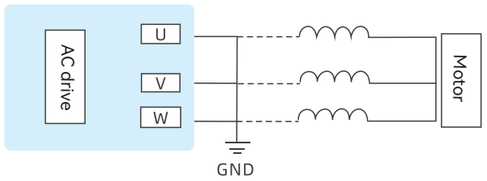
The GA350 series features advanced circuit design with EMC grounding disconnection function to address on-site interference, along with filters and reactors that optimize disturbance and anti-interference performance, safeguarding the reliability of engineering applications.

Versatile protection logic

The GA350 series offers a robust fault/warning logic system, including internal buffer relay and fan drive circuit protection, as well as external 24VDC short circuit and motor overload safeguards, ensuring high performance, reliability, and safety.



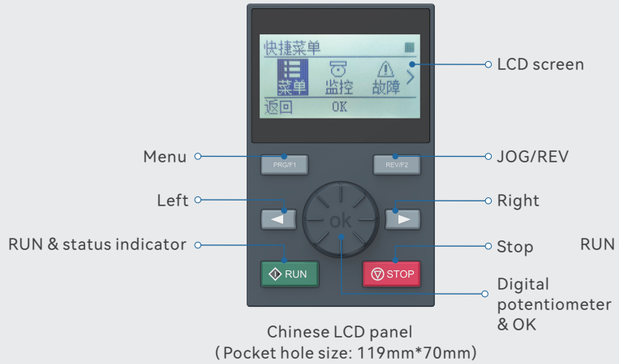
The GA350 series also includes special ground short-circuit protection with automatic detection for motor-to-ground faults, enhancing project site safety.



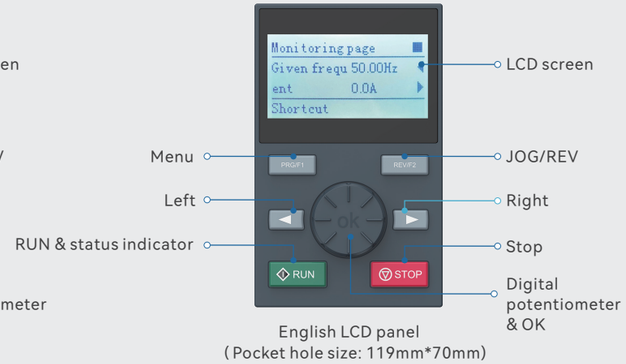
Panel operation

The GA350 series offers an integrated panel for 37kW product and below, and an LCD for over 45kW, supporting English/Chinese text displays for global engineering interface requirements.

Integrated panel



Chinese LCD panel
(Pocket hole size: 119mm*70mm)



English LCD panel
(Pocket hole size: 119mm*70mm)

Specifications

	Item	Specification
Power supply input	Voltage and frequency	S2: Single-phase 200V~240V 50Hz/60Hz T4: Single-phase 380V~480V 50Hz/60Hz T2: Three-phase 200V~240V 50Hz/60Hz T6: Three-phase 660V~690V 50Hz/60 Hz
	Allowable fluctuation	T/S2: -10%~10%; T3: -15%~10%; T6: -10%~10% Voltage imbalance rate: < 3%; Frequency: ±5%; Distortion rate meets IEC61800-2
	Closing impact current	< rated current
Power range	Single-phase 220V 50/60Hz	0.75kW-15kW
	Three-phase 220V 50/60Hz	0.75kW-220kW
	Three-phase 400V 50/60Hz	0.75kW-1120kW
	Three-phase 660V 50/60Hz	22kW-1120kW
Output	Output voltage	Output under rated conditions: Three-phase, 0 V~ input voltage, deviation <5%.
	Frequency range	0.00Hz ~ 600.00Hz
	Frequency accuracy	±0.5% of max frequency
	Overload capacity	Heavy overload: 150% rated current for 89s, 180% rated current for 10s, and 200% rated current for 3s; Light overload: 120% rated current for 35s, 140% rated current for 7s, 150% rated current for 3s.
Main control performance	Motor type	Asynchronous motor, synchronous motor, synchronous reluctance motor
	Motor control mode	V/F control, SVC, FVC, VF separation control
	Modulation mode	Optimized space vector PWM
	Carrier frequency	1.0kHz ~ 16.0kHz
	Speed control range	Vector control without PG, rated load: 1:50 (synchronous reluctance motor) Vector control without PG, rated load: 1:200 (AM, PMSM) Vector control with PG, rated load: 1:1000
	Steady-status speed accuracy	Vector control without PG: ±0.5% (three-phase AM), ±0.1% (PMSM). Vector control with PG: ±0.02%
	Starting torque	Vector control without PG: 100% rated torque at 2Hz (synchronous reluctance motor) Vector control without PG: 150% rated torque at 0.25Hz (AM, PMSM) Vector control with PG: 200% rated torque at 0Hz
	V/F curve	Four curve modes: linear, self-setting V/F, reduced torque (to the power of 1.1 to 2.0), and square V/F
	Acceleration and deceleration curve	Two modes: linear, S-Curve Four sets of time; the time unit is 0.01s, the longest is 650.00s
	Rated output voltage	With power supply voltage compensation, the motor rated voltage reaches 100%, which can be set in the range of 50%~100% (the output cannot exceed the input voltage)
	Auto voltage regulation	When the grid voltage fluctuates, it can automatically keep the output voltage constant
	Auto ECO operation	Under V/F control mode, the output voltage is automatically optimized according to the load to realize energy-saving operation
	Auto current limit	The current is automatically limited during operation to prevent trips caused by frequent over-current faults
	Instantaneous power failure processing	In case of instantaneous power failure, uninterrupted operation can be realized through bus voltage control.
Protection		Overvoltage, undervoltage, current limit, overcurrent, overload, electronic thermal relay, overheat, overvoltage stall, data protection, overspeed, I/O phase loss
Environment	Installation site	Altitude max 1,000m; derate 1% per 100m above. No condensation, ice, or precipitation. Solar rad. <700W/m², air press. 70kPa~106kPa
	Temp. and humidity	-10°C ~+50°C; derate above 40°C, max 60°C (no-load); 5%~95% RH (no condensation)
	Vibration	5.9 m/s2 (0.6G) at 9Hz~200Hz
	Storage temp.	-30°C ~ +60°C
	Installation method	Wall-mounted or vertical cabinet
	IP	IP20
	Pollution	II
	Cooling	Forced air cooling

Model Description

GA350 – T4 – R75 – G – B – L – E

C3 standard EMI:
None: No C3 standard configuration
E: Built-in C3 standard EMI components

DC reactor:
None: No DC reactor
L: Built-in DC reactor

Control unit:
None: No brake unit
B: Built-in brake unit

Load:
G: Heavy

Motor power:
R75: 0.75kW

Voltage level:
T: Three-phase power supply
S: Single-phase power supply
2: 220V, 4: 380-480V, 6: 660V

Series name:
GA350

Expansion Card:

Card type	Drive model	Category	Specifications
Feedback (PG card)	GA350PG01（5V）	Incremental PG	Supports incremental differential output encoders up to 500kHz
	GA350PG01（12V）	Incremental PG	Support incremental open collector output encoders up to 500kHz
	GA350PG02	Position PG	PG cards & encoders enable CW+CCW, AB quadrature, pulse+direction position control
	GA350RT1	Rotary transformer PG	Support 4 FVC rotary transformer ratios: 0.219, 0.286, 0.5, 0.58
Communication	GA350CAN1	CANopen	CANopen: ISO/DIS11898 compliant
	GA350DP01	Profibus-DP	Profibus-DP: standard DB9 socket to Profibus master
	GA350PN1	Profinet	Profinet: communicate with hosts like Siemens PLC
	GA350EC1	EtherCAT	EtherCAT: communicate with hosts like Omron and Beckhoff
	GA350TCP1	Modbus-TCP	Modbus-TCP: ASCII/Binary for data transmission
	GA350EIP1	EtherNet/IP	LAN/Internet for communication
I/O	GA350IO1	IO card 1	4x digital inputs (X10 supports 100kHz pulse input), 1x digital output, 1x analog output, 1x relay output. Support temp. detection (PT100, PT1000 and KTY84)
	GA350IO2	IO card 2	Support 1x 485 communication, 1x PT100 temp. detection circuit
GPRS	IOT-BMC410-GA350	GPRS	4G GPRS communication module

Reactor & Filter:

380V ~480V -15%~+10%，50Hz/60Hz ±5%

Model	Reactor			Filter	
	Input reactor	DC reactor	Output reactor	C2 standard EMI filter	Sine-wave filter
GA350-T4-R75G-B	VC-ACL-C-03P7A-T3-2M24	-	VC-OCL-C-03P7A-T3-2M24	JL-NFI-4-005	JL-SWF-4-004
GA350-T4-1R5G-B	VC-ACL-C-03P7A-T3-2M24	-	VC-OCL-C-06P3A-T3-1M45(15)	JL-NFI-4-005	JL-SWF-4-004
GA350-T4-2R2G-B	VC-ACL-C-05P5A-T3-2M18	-	VC-OCL-C-06P3A-T3-1M45(22)	JL-NFI-4-010	JL-SWF-4-008
GA350-T4-004G-B	VC-ACL-C-0009A-T3-1M85	-	VC-OCL-C-0011A-T3-1M10	JL-NFI-4-010	JL-SWF-4-017
GA350-T4-5R5G-B	VC-ACL-C-0013A-T3-1M56	-	VC-OCL-C-0016A-T3-M800	JL-NFI-4-016	JL-SWF-4-017
GA350-T4-7R5G-B	VC-ACL-C-0018A-T3-1M00	-	VC-OCL-C-0018A-T3-M650	JL-NFI-4-025	JL-SWF-4-017
GA350-T4-011G-B	VC-ACL-C-0024A-T3-M520	-	VC-OCL-C-0028A-T3-M330	JL-NFI-4-025	JL-SWF-4-024
GA350-T4-015G-B	VC-ACL-C-0034A-T3-M400	-	VC-OCL-C-0035A-T3-M250	JL-NFI-4-035	JL-SWF-4-032
GA350-T4-018G-B	VC-ACL-C-0038A-T3-M350	-	VC-OCL-C-0040A-T3-M200	JL-NFI-4-050	JL-SWF-4-038
GA350-T4-022G-B	VC-ACL-C-0050A-T3-M260	-	VC-OCL-C-0050A-T3-M180	JL-NFI-4-050	JL-SWF-4-048
GA350-T4-030G-B	VC-ACL-C-0060A-T3-M240	-	VC-OCL-C-0063A-T3-M090	JL-NFI-4-065	JL-SWF-4-062
GA350-T4-037G-B	VC-ACL-C-0075A-T3-M235	-	VC-OCL-C-0080A-T3-M080	JL-NFI-4-080	JL-SWF-4-072
GA350-T4-045G-B-L	VC-ACL-C-0091A-T3-M170	Optional built-in VC-DCL-C-0120A-T3-M580	VC-OCL-C-0100A-T3-M060	JL-NFI-4-100	JL-SWF-4-115
GA350-T4-055G-B-L	VC-ACL-A-0112A-T3-M110	Optional built-in VC-DCL-C-0146A-T3-M470	VC-OCL-A-0125A-T3-M056	JL-NFI-4-130	JL-SWF-4-115
GA350-T4-075G-B-L	VC-ACL-A-0150A-T3-M082	Optional built-in VC-DCL-A-0170A-T3-M293	VC-OCL-A-0160A-T3-M041	JL-NFI-4-160	JL-SWF-4-180
GA350-T4-090G-B-L	VC-ACL-A-0200A-T3-M070	Optional built-in VC-DCL-A-0200A-T3-M280	VC-OCL-A-0200A-T3-M035	JL-NFI-4-200	JL-SWF-4-260
GA350-T4-110G-B-L	VC-ACL-A-0224A-T3-M056	Optional built-in VC-DCL-A-0250A-T3-M224	VC-OCL-A-0224A-T3-M028	JL-NFI-4-300	JL-SWF-4-260
GA350-T4-132G-L	VC-ACL-A-0280A-T3-46U6	Standard built-in	VC-OCL-A-0280A-T3-23U3	JL-NFI-4-300	JL-SWF-4-260
GA350-T4-160G-L	VC-ACL-A-0315A-T3-38U8	Standard built-in	VC-OCL-A-0315A-T3-19U4	JL-NFI-4-400	JL-SWF-4-410
GA350-T4-185G-L	VC-ACL-A-0400A-T3-36U8	Standard built-in	VC-OCL-A-0400A-T3-18U4	JL-NFI-4-400	JL-SWF-4-410
GA350-T4-200G-L	VC-ACL-A-0400A-T3-36U8	Standard built-in	VC-OCL-A-0400A-T3-18U4	JL-NFI-4-400	JL-SWF-4-410
GA350-T4-220G-L	VC-ACL-A-0450A-T3-33U3	Standard built-in	VC-OCL-A-0450A-T3-16U4	JL-NFI-4-600	JL-SWF-4-480
GA350-T4-250G-L	VC-ACL-A-0560A-T3-26U4	Standard built-in	VC-OCL-A-0560A-T3-13U2	JL-NFI-4-600	JL-SWF-4-480
GA350-T4-280G-L	VC-ACL-A-0560A-T3-26U4	Standard built-in	VC-OCL-A-0560A-T3-13U2	JL-NFI-4-600	JL-SWF-4-660
GA350-T4-315G-L	VC-ACL-A-0630A-T3-23U3	Standard built-in	VC-OCL-A-0690A-T3-11U6	JL-NFI-4-600	JL-SWF-4-660
GA350-T4-355G-L	VC-ACL-A-0720A-T3-18U4	Standard built-in	VC-OCL-A-0720A-T3-9U20	JL-NFI-4-700	JL-SWF-4-660
GA350-T4-400G-L	VC-ACL-A-0720A-T3-18U4	Standard built-in	VC-OCL-A-0720A-T3-9U20	JL-NFI-4-800	JL-SWF-4-750
GA350-T4-450G-L	VC-ACL-A-1000A-T3-14U7	Standard built-in	VC-OCL-A-1000A-T3-7U40	JL-NFI-4-800	JL-SWF-4-880
GA350-T4-500G-L	VC-ACL-A-1000A-T3-14U7	Standard built-in	VC-OCL-A-1000A-T3-7U40	JL-NFI-4-1000	JL-SWF-4-880
GA350-T4-560G-L	VC-ACL-A-1250A-T3-11U6	Standard built-in	VC-OCL-A-1250A-T3-5U80	JL-NFI-4-1000	JL-SWF-4-1200
GA350-T4-630GL	VC-ACL-A-1250A-T3-11U6	Standard built-in	VC-OCL-A-1250A-T3-5U80	JL-NFI-4-1200	JL-SWF-4-1200
GA350-T4-710G-L	VC-ACL-A-1400A-T3-10U4	Standard built-in	VC-OCL-A-1350A-T3-5U20	JL-NFI-4-1600	STS-SFO-4-1400
GA350-T4-800G-L	VC-ACL-A-1500A-T3-9U30	Standard built-in	VC-OCL-A-1500A-T3-4U70	JL-NFI-4-1600	STS-SFO-4-1600
GA350-T4-900G-L	VC-ACL-A-1700A-T3-8U20	Standard built-in	VC-OCL-A-1700A-T3-4U10	JL-NFI-4-2000	STS-SFO-4-1800
GA350-T4-1000G-L	VC-ACL-A-1900A-T3-7U40	Standard built-in	VC-OCL-A-1900A-T3-3U70	JL-NFI-4-2000	STS-SFO-4-2000
GA350-T4-1120G-L	VC-ACL-A-2100A-T3-6U60	Standard built-in	VC-OCL-A-2100A-T3-3U30	JL-NFI-4-2000	STS-SFO-4-2000

660V~690V -10%~+10%，50Hz/60Hz ±5%

Model	Reactor			Filter	
	Input reactor	DC reactor	Output reactor	C2 standard EMI filter	Sine-wave filter
GA350-T6-022G-B	VC-ACL-C-0028A-T6-M867	-	VC-OCL-C-0028A-T6-M433	VC-DL-T6-030	VC-SFO-T6-030
GA350-T6-030G-B	VC-ACL-C-0035A-T6-M693	-	VC-OCL-C-0035A-T6-M346	VC-DL-T6-050	VC-SFO-T6-040
GA350-T6-037G-B	VC-ACL-C-0045A-T6-M539	-	VC-OCL-C-0045A-T6-M269	VC-DL-T6-050	VC-SFO-T6-050
GA350-T6-045G-B-L	VC-ACL-C-0052A-T6-M467	Optional built-in VC-DCL-C-0052A-T6-M116	VC-OCL-C-0052A-T6-M233	VC-DL-T6-050	VC-SFO-T6-060
GA350-T6-055G-B-L	VC-ACL-C-0063A-T6-M385	Optional built-in VC-DCL-C-0063A-T6-M960	VC-OCL-C-0063A-T6-M192	VC-DL-T6-065	VC-SFO-T6-070
GA350-T6-075G-B-L	VC-ACL-C-0086A-T6-M282	Optional built-in VC-DCL-C-0086A-T6-M700	VC-OCL-C-0086A-T6-M141	VC-DL-T6-100	VC-SFO-T6-090
GA350-T6-090G-B-L	VC-ACL-C-0098A-T6-M248	Optional built-in VC-DCL-C-0098A-T6-M620	VC-OCL-C-0098A-T6-M124	VC-DL-T6-100	VC-SFO-T6-110
GA350-T6-110G-B-L	VC-ACL-C-0121A-T6-M200	Optional built-in VC-DCL-C-0121A-T6-M500	VC-OCL-C-0121A-T6-M100	VC-DL-T6-130	VC-SFO-T6-130
GA350-T6-132G-L	VC-ACL-A-0150A-T6-M162	Standard built-in	VC-OCL-A-0150A-T6-81U0	VC-DL-T6-160	VC-SFO-T6-170
GA350-T6-160G-L	VC-ACL-A-0175A-T6-M175	Standard built-in	VC-OCL-A-0175A-T6-69U0	VC-DL-T6-200	VC-SFO-T6-200
GA350-T6-185G-L	VC-ACL-A-0198A-T6-M123	Standard built-in	VC-OCL-A-0198A-T6-60U0	VC-DL-T6-200	VC-SFO-T6-200
GA350-T6-200G-L	VC-ACL-A-0218A-T6-M111	Standard built-in	VC-OCL-A-0218A-T6-55U0	VC-DL-T6-300	VC-SFO-T6-225
GA350-T6-220G-L	VC-ACL-A-0235A-T6-M103	Standard built-in	VC-OCL-A-0235A-T6-51U0	VC-DL-T6-300	VC-SFO-T6-250
GA350-T6-250G-L	VC-ACL-A-0270A-T6-90U0	Standard built-in	VC-OCL-A-0270A-T6-45U0	VC-DL-T6-300	VC-SFO-T6-280
GA350-T6-280G-L	VC-ACL-A-0330A-T6-74U0	Standard built-in	VC-OCL-A-0330A-T6-37U0	VC-DL-T6-400	VC-SFO-T6-350
GA350-T6-315G-L	VC-ACL-A-0345A-T6-70U0	Standard built-in	VC-OCL-A-0345A-T6-35U0	VC-DL-T6-400	VC-SFO-T6-350
GA350-T6-355G-L	VC-ACL-A-0380A-T6-64U0	Standard built-in	VC-OCL-A-0380A-T6-32U0	VC-DL-T6-400	VC-SFO-T6-400
GA350-T6-400G-L	VC-ACL-A-0430A-T6-56U0	Standard built-in	VC-OCL-A-0430A-T6-28U0	VC-DL-T6-600	VC-SFO-T6-450
GA350-T6-450G-L	VC-ACL-A-0466A-T6-52U0	Standard built-in	VC-OCL-A-0466A-T6-26U0	VC-DL-T6-600	VC-SFO-T6-500
GA350-T6-500G-L	VC-ACL-A-0540A-T6-45U0	Standard built-in	VC-OCL-A-0540A-T6-22U0	VC-DL-T6-600	VC-SFO-T6-600
GA350-T6-560G-L	VC-ACL-A-0600A-T6-40U0	Standard built-in	VC-OCL-A-0600A-T6-20U0	VC-DL-T6-600	VC-SFO-T6-600
GA350-T6-630G-L	VC-ACL-A-0690A-T6-35U0	Standard built-in	VC-OCL-A-0690A-T6-17U0	VC-DL-T6-800	VC-SFO-T6-700
GA350-T6-710G-L	VC-ACL-A-0760A-T6-32U0	Standard built-in	VC-OCL-A-0760A-T6-16U0	VC-DL-T6-800	VC-SFO-T6-800
GA350-T6-800G-L	VC-ACL-A-0860A-T6-28U0	Standard built-in	VC-OCL-A-0860A-T6-14U0	VC-DL-T6-1000	VC-SFO-T6-900
GA350-T6-900G-L	VC-ACL-A-0932A-T6-26U0	Standard built-in	VC-OCL-A-0932A-T6-13U0	VC-DL-T6-1000	VC-SFO-T6-1100
GA350-T6-1080G-L	VC-ACL-A-1080A-T6-22U0	Standard built-in	VC-OCL-A-1080A-T6-11U0	VC-DL-T6-1200	VC-SFO-T6-1100
GA350-T6-1200G-L	VC-ACL-A-1200A-T6-20U0	Standard built-in	VC-OCL-A-1200A-T6-10U0	VC-DL-T6-1200	VC-SFO-T6-1200

Note:

01 In AC drive models, -B, -L, and -E refer to the built-in braking unit, DC reactor, and C3 EMI filter, respectively.
02 External connection is required for the "reactor & filter" setup and operation.
03 Up to two expansion cards are supported at once per AC drive.
04 An external C2 EMI filter is compatible with the built-in C3 accessories (named with -E); C2 and C3 cannot be used at the same time.

Reference model	Heavy overload		Light overload	
	Rated output current (A)	Rated power (kW)	Rated output current (A)	Rated power (kW)
Power supply：200V ~240V -10%~+10%，50Hz/60Hz ±5%				
GA350-T/S2-R75G-B-E	4	0.75	-	-
GA350-T/S2-1R5G-B-E	7	1.5	-	-
GA350-T/S2-2R2G-B-E	10	2.2	-	-
GA350-T/S2-004G-B-E	16	4	-	-
GA350-T/S2-5R5G-B-E	20	5.5	-	-
GA350-T/S2-7R5G-B-E	30	7.5	-	-
GA350-T/S2-011G-B-E	42	11	-	-
GA350-T/S2-015G-B-E	55	15	-	-
GA350-T2-018G-B-E	70	18.5	-	-
GA350-T2-022G-B-E	80	22	-	-
GA350-T2-030G-B-L-E	110	30	-	-
GA350-T2-037G-B-L-E	130	37	-	-
GA350-T2-045G-B-L-E	160	45	-	-
GA350-T2-055G-B-L-E	200	55	-	-
GA350-T2-075G-L-E	260	75	-	-
GA350-T2-090G-L-E	320	90	-	-
GA350-T2-110G-L-E	380	110	-	-
GA350-T2-132G-L-E	420	132	-	-
GA350-T2-160G-L-E	550	160	-	-
GA350-T2-185G-L-E	600	185	-	-
GA350-T2-200G-L-E	660	200	-	-
GA350-T2-220G-L-E	720	220	-	-
Power supply：380V ~480V -15%~+10%，50Hz/60Hz ±5%				
GA350-T4-R75G-B-E	3	0.75	4	1.5
GA350-T4-1R5G-B-E	4	1.5	6	2.2
GA350-T4-2R2G-B-E	6	2.2	-	-
GA350-T4-004G-B-E	10	4	13	5.5
GA350-T4-5R5G-B-E	13	5.5	17	7.5
GA350-T4-7R5G-B-E	17	7.5	25	11
GA350-T4-011G-B-E	25	11	32	15
GA350-T4-015G-B-E	32	15	38	18.5
GA350-T4-018G-B-E	38	18.5	45	22
GA350-T4-022G-B-E	45	22	60	30
GA350-T4-030G-B-E	60	30	75	37
GA350-T4-037G-B-E	75	37	90	45
GA350-T4-045G-B-L-E	90	45	110	55
GA350-T4-055G-B-L-E	110	55	150	75
GA350-T4-075G-B-L-E	150	75	180	90
GA350-T4-090G-B-L-E	180	90	210	110
GA350-T4-110G-B-L-E	210	110	250	132
GA350-T4-132G-L-E	250	132	310	160
GA350-T4-160G-L-E	310	160	340	185
GA350-T4-185G-L-E	340	185	380	200
GA350-T4-200G-L-E	380	200	415	220

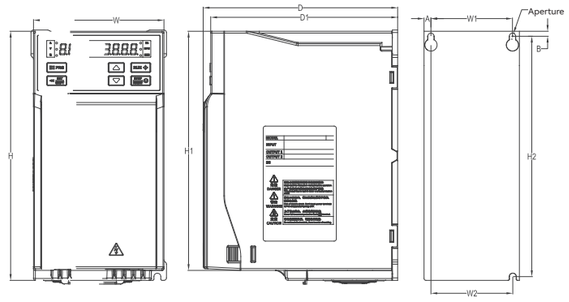
Reference model	Heavy overload		Light overload	
	Rated output current (A)	Rated power (kW)	Rated output current (A)	Rated power (kW)
Power supply: 380V ~480V -15%~+10%, 50Hz/60Hz ±5%				
GA350-T4-220G-L-E	415	220	470	250
GA350-T4-250G-L-E	470	250	510	280
GA350-T4-280G-L-E	510	280	600	315
GA350-T4-315G-L-E	600	315	670	355
GA350-T4-355G-L-E	670	355	750	400
GA350-T4-400G-L-E	750	400	810	450
GA350-T4-450G-L-E	810	450	860	500
GA350-T4-500G-L-E	860	500	990	560
GA350-T4-560G-L-E	990	560	1200	630
GA350-T4-630G-L	1200	630	1340	710
GA350-T4-710G-L	1340	710	1500	800
GA350-T4-800G-L	1500	800	1620	900
GA350-T4-900G-L	1620	900	1720	1000
GA350-T4-1000G-L	1720	1000	1980	1120
GA350-T4-1120G-L	1980	1120	-	-
Power supply: 660V ~690V -10%~+10%, 50Hz/60Hz ±5%				
GA350-T6-022G-B-E	28	22	35	30
GA350-T6-030G-B-E	35	30	45	37
GA350-T6-037G-B-E	45	37	52	45
GA350-T6-045G-B-L-E	52	45	63	55
GA350-T6-055G-B-L-E	63	55	86	75
GA350-T6-075G-B-L-E	86	75	98	90
GA350-T6-090G-B-L-E	98	90	121	110
GA350-T6-110G-B-L-E	121	110	150	132
GA350-T6-132G-L-E	150	132	175	160
GA350-T6-160G-L-E	175	160	198	185
GA350-T6-185G-L-E	198	185	218	200
GA350-T6-200G-L-E	218	200	235	220
GA350-T6-220G-L-E	235	220	270	250
GA350-T6-250G-L-E	270	250	330	280
GA350-T6-280G-L-E	330	280	345	315
GA350-T6-315G-L-E	345	315	380	355
GA350-T6-355G-L-E	380	355	430	400
GA350-T6-400G-L-E	430	400	466	450
GA350-T6-450G-L-E	466	450	540	500
GA350-T6-500G-L-E	540	500	600	560
GA350-T6-560G-L-E	600	560	690	630
GA350-T6-630G-L	690	630	760	710
GA350-T6-710G-L	760	710	860	800
GA350-T6-800G-L	860	800	932	900
GA350-T6-900G-L	932	900	1080	1000
GA350-T6-1000G-L	1080	1000	1200	1120
GA350-T6-1120G-L	1200	1120	-	-

Note: Select the appropriate AC drive model by combining the reference model with the description and configuration details provided.

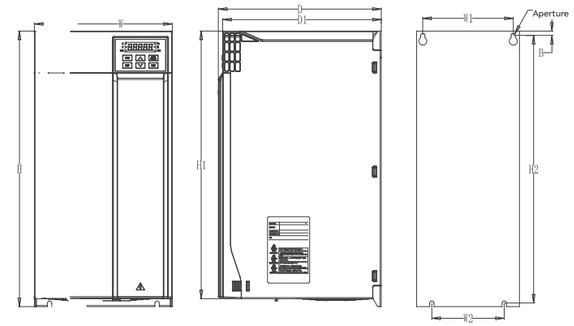
NiSTRO

Installation Dimensions

Plastic chassis

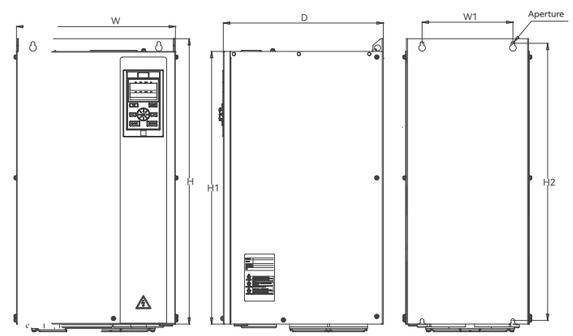


Model	Overall dimensions (mm)					Installation dimensions (mm)					Aperture
	W	H	H1	D	D1	W1	W2	H2	A	B	
GA350-T/S2-R75G-B-E	76	200	192	155	149	65	65	193	5.5	4	3-M4
GA350-T/S2-1R5G-B-E											
GA350-T/S2-2R2G-B-E	100	242	231	155	149	84	86.5	231.5	8	5.5	3-M4
GA350-T/S2-004G-B-E											
GA350-T/S2-5R5G-B-E	116	320	307.5	175	169	98	100	307.5	9	6	3-M5
GA350-T4-R75G-B-E	76	200	192	155	149	65	65	193	5.5	4	3-M4
GA350-T4-1R5G-B-E											
GA350-T4-2R2G-B-E											
GA350-T4-004G-B-E	100	242	231	155	149	84	86.5	231.5	8	5.5	3-M4
GA350-T4-5R5G-B-E											
GA350-T4-7R5G-B-E	116	320	307.5	175	169	98	100	307.5	9	6	3-M5
GA350-T4-011G-B-E											



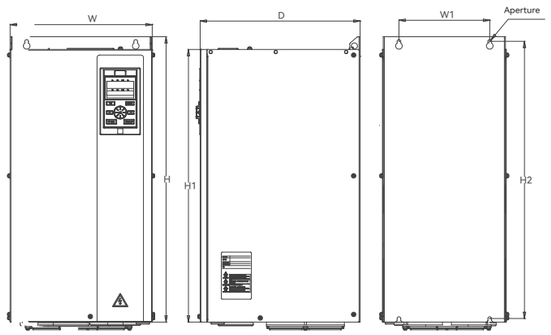
Model	Overall dimensions (mm)					Installation dimensions (mm)				Aperture
	W	H	H1	D	D1	W1	W2	H2	B	
GA350-T/S2-7R5G-B-E	142	383	372	225	219	125	100	372	6	4-M5
GA350-T/S2-011G-B-E										
GA350-T/S2-015G-B-E	172	430	/	225	219	150	150	416.5	7.5	4-M5
GA350-T2-018G-B-E										
GA350-T2-022G-B-E										
GA350-T4-015G-B-E	142	383	372	225	219	125	100	372	6	4-M5
GA350-T4-018G-B-E										
GA350-T4-022G-B-E										
GA350-T4-030G-B-E	172	430	/	225	219	150	150	416.5	7.5	4-M5
GA350-T4-037G-B-E										

Steel chassis



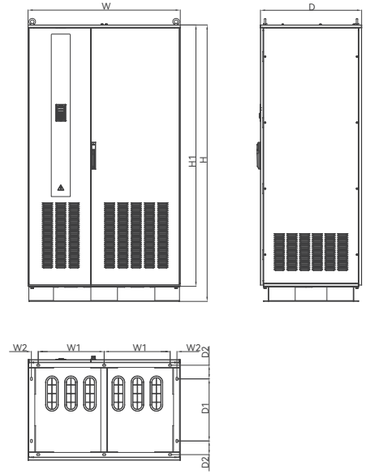
Model	Overall dimensions (mm)				Installation dimensions (mm)		Aperture
	W	H	H1	D	W1	H2	
GA350-T2-132G-B-L-E	240	560	520	310	176	544	4-M6
GA350-T2-160G-B-L-E							
GA350-T2-185G-B-L-E							
GA350-T2-200G-B-L-E	270	638	580	350	195	615	4-M8
GA350-T4-045G-B-L-E	240	560	520	310	176	544	4-M6
GA350-T4-055G-B-L-E							
GA350-T4-075G-B-L-E							
GA350-T6-022G-B-E							
GA350-T6-030G-B-E							
GA350-T6-037G-B-E							
GA350-T6-045G-B-L-E							
GA350-T6-055G-B-L-E							
GA350-T6-075G-B-L-E							

Steel chassis



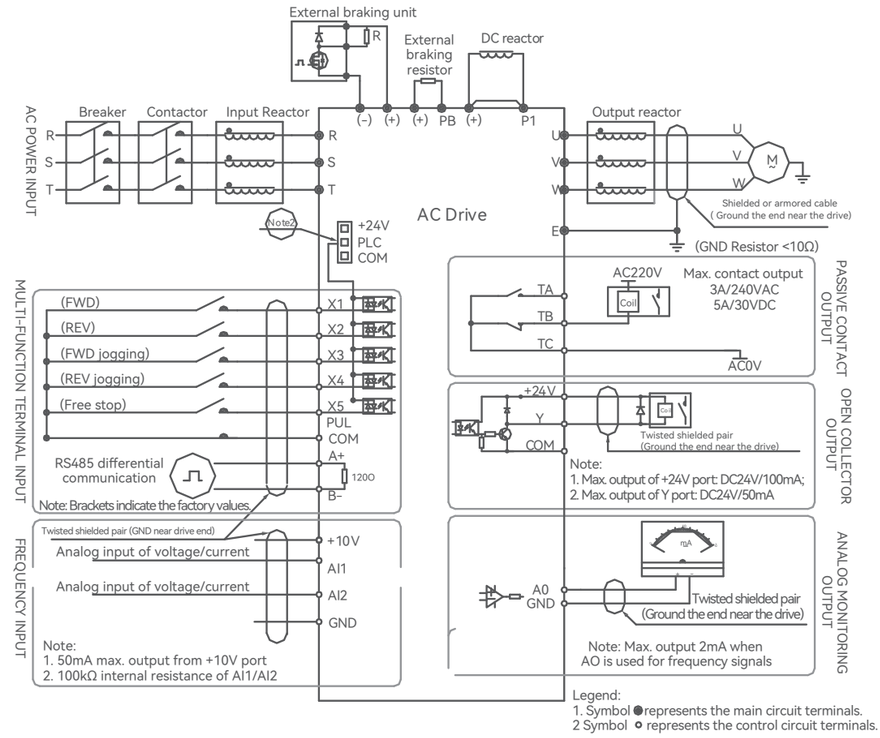
Model	Overall dimensions (mm)				Installation dimensions (mm)		Aperture
	W	H	H1	D	W1	H2	
GA350-T4-090G-B-L-E	270	638	580	350	195	615	4-M8
GA350-T4-110G-B-L-E							
GA350-T6-090G-B-L-E							
GA350-T6-110G-B-L-E							
GA350-T4-132G-L-E	350	738	680	405	220	715	4-M8
GA350-T4-160G-L-E							
GA350-T6-132G-L-E							
GA350-T6-160G-L-E							
GA350-T4-185G-L-E	360	940	850	480	200	910	4-M16
GA350-T4-200G-L-E							
GA350-T4-220G-L-E							
GA350-T6-185G-L-E							
GA350-T6-200G-L-E							
GA350-T6-220G-L-E							
GA350-T4-250G-L-E	370	1140	1050	545	200	1110	4-M16
GA350-T4-280G-L-E							
GA350-T6-250G-L-E							
GA350-T6-280G-L-E							
GA350-T4-315G-L-E	400	1250	1140	545	240	1213	4-M16
GA350-T4-355G-L-E							
GA350-T4-400G-L-E							
GA350-T6-315G-L-E							
GA350-T6-355G-L-E							
GA350-T6-400G-L-E							
GA350-T4-450G-L-E	460	1400	1293	545	300	1363	4-M16
GA350-T4-500G-L-E							
GA350-T4-560G-L-E							
GA350-T6-450G-L-E							
GA350-T6-500G-L-E							
GA350-T6-560G-L-E							

Cabinet



Model	Overall dimensions (mm)				Installation dimensions (mm)				Aperture
	W	H	H1	D	W1	W2	D1	D2	
GA350-T4-630G-L	1200	2200	2080	800	520	54	494	108.5	ϕ14
GA350-T4-710G-L									
GA350-T4-800G-L									
GA350-T4-900G-L									
GA350-T4-1000G-L									
GA350-T4-1120G-L									
GA350-T6-630G-L									
GA350-T6-710G-L									
GA350-T6-800G-L									
GA350-T6-900G-L									
GA350-T6-1000G-L									
GA350-T6-1120G-L									

Wiring



Note: Multi-functional input terminals X1-X5/PUL accept NPN/PNP signals. Bias voltage can be internal (+24V) or external (PLC). Default is +24V to PLC short, between RJ45 and terminals.

Application