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IS810N-INT Series Standard Servo Drive (Multidrive System)

Born for Accuracy

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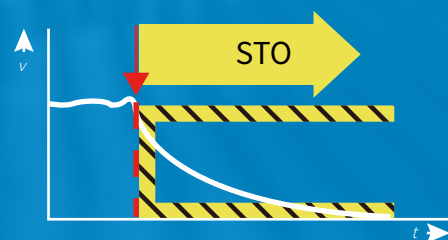




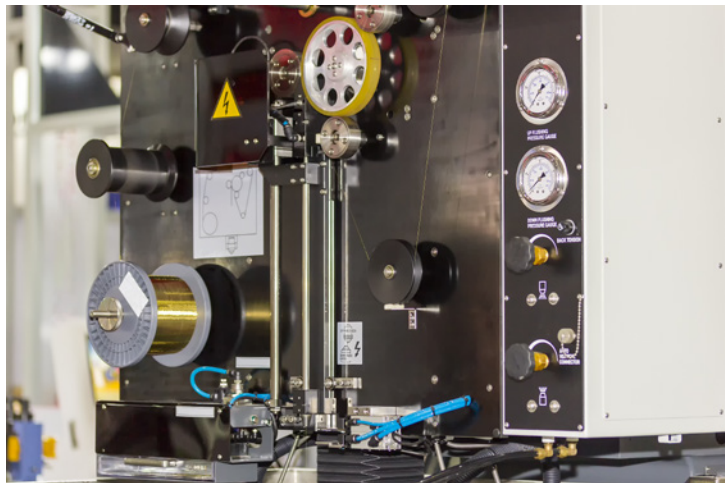
IS810N-INT Series Standard Servo Drive (Multidrive System) Born for Accuracy

IS810N-INT, a new generation of standard servo drive developed by Inovance, marks the initial breakthrough in multidrive technologies and market applications in the OEM industry in China. IS810N-INT adopts the underlying algorithm platform developed by the R&D center in Milan and aims to fulfill the performance, function, volume, safety, and environmental adaptability demands of such industries as printing and packaging, forging machine tool, laser cutting, silicone semi-conductor, and metal products.

IS810N-INT is equipped with the adaptive notch filter and various functions including one-key tuning, torque compensation, dual-axis gantry synchronization, and multi-axis torque load distribution. Together with its high reliability and high power density, IS810N-INT is well positioned to optimize the user experience in respect of installation, power distribution, wiring, and maintenance.



A higher level of industrial automation application requires a higher level of control accuracy.



Wire cutting

Up to 1800 m/min linear speed
 ± 0.5 N tension fluctuation of the cutting line during running
No wire breaking upon power failure
Long-term reliable operation in the environment with conductive dusts



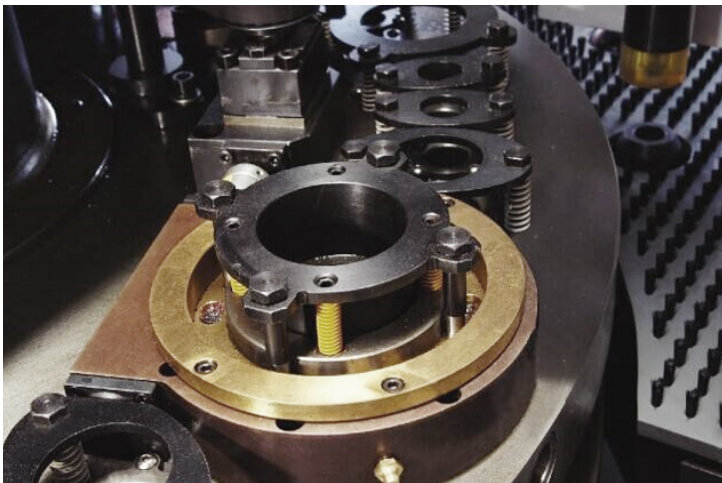
Printing equipment

± 0.05 mm register precision at constant speed, ± 0.1 mm acceleration/deceleration
 ± 0.01 mm color code detection precision
Up to 1000 m/min printing speed of the register system
No paper breaking upon accidental power failure



Laser cutting

± 0.01 mm cutting precision and ± 0.05 mm deviation upon dual X-axes stop
Reliable motor output torque cut-off upon emergencies
Smooth stop upon accidental stop to prolong the service life of the mechanical part



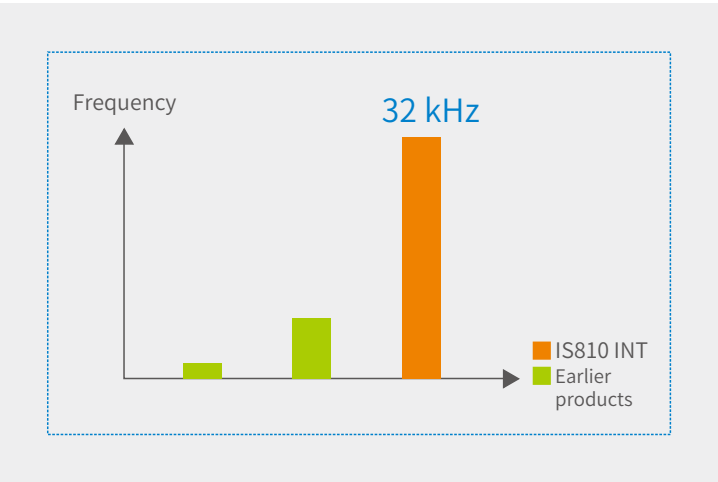
Servo turret punch press

± 0.05 mm impact precision, with the impact efficiency of X-axis and Y-axis reaching 350 times/min and 300 times/min respectively
Recycle and re-use of the energy generated during large-inertia impact
Limited installation space reserved for the electric control cabinet

IS810N-INT aims to fulfill the most demanding precision requirements.

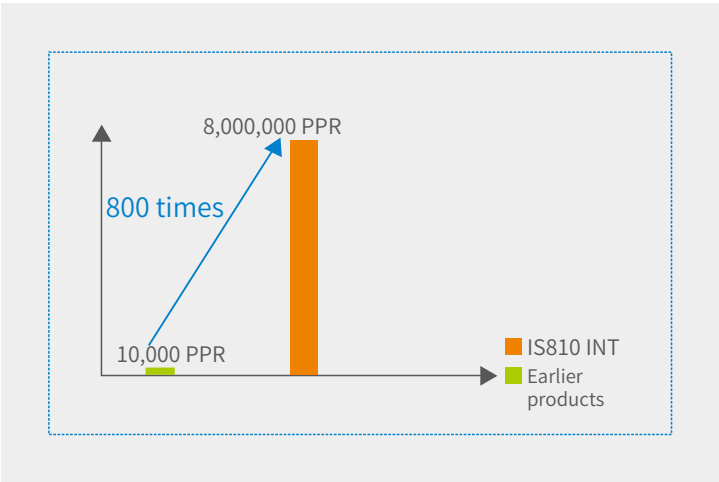
Powerful Performance and Outstanding Accuracy

Satisfying the ultra-high performance requirements of such industries as silicone semi-conductors, printing and packaging, metal products, and lithium batteries



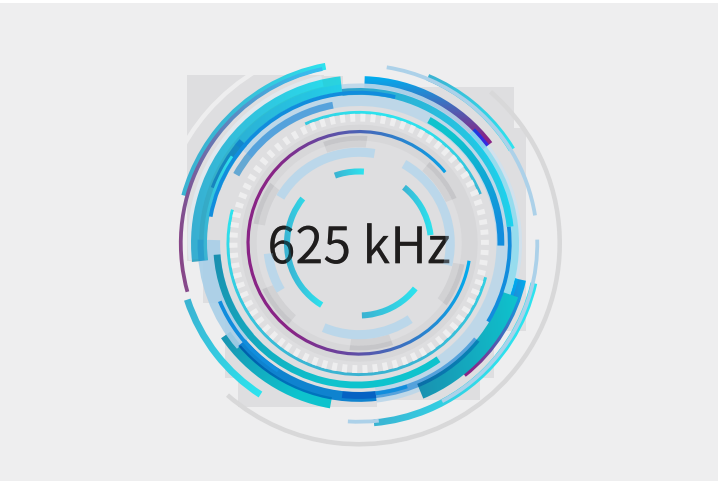
32 kHz speed loop and position loop response cycle

Four times quicker than IS620 models and 16 times quicker than IS650 models



Match with 23-bit absolute encoder

Resolution up to 0.15 arc seconds



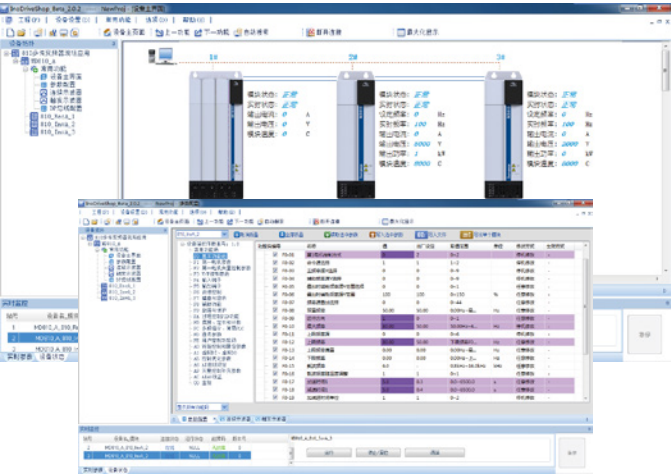
625 kHz current loop refresh cycle



3.0 kHz speed loop bandwidth

Easy to use

Configured with powerful InoDriveShop software tool and external LCD operating panel for easier operation



User-friendly software tool

- One-key scanning and guided commissioning
- Built-in multi-axis and multi-channel continuous oscilloscope
- Configuration module calling function
- DP communication setup
- Online software programming/upgrade
- Parameter upload/download and storage in batches

Powerful and easy-to-use external LCD operating panel

- Joint commissioning of multiple drives
- Parameter upload/download and storage in batches
- Graphic indications for easy parameter access
- Online monitoring of simple oscilloscope
- Flexible mounting location (on the cabinet door or operating console) owing to IP54 rating

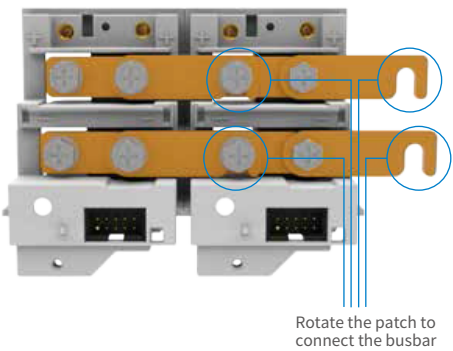
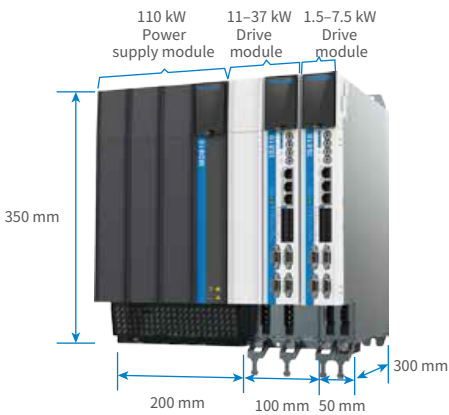
24 V independent power port of power unit

24 V independent power port to power up the power unit control board and support parameter settings, status check and fault analysis to be performed through the software tool and external LCD operating panel in cases where the main circuit power supply is cut off



At least 60% reduction in volume and 5% to 30% reduction in power consumption

Factory power distribution simplified through common DC bus application mode with uniform incoming circuit breaker, power supply unit (built-in DC reactor) and braking unit



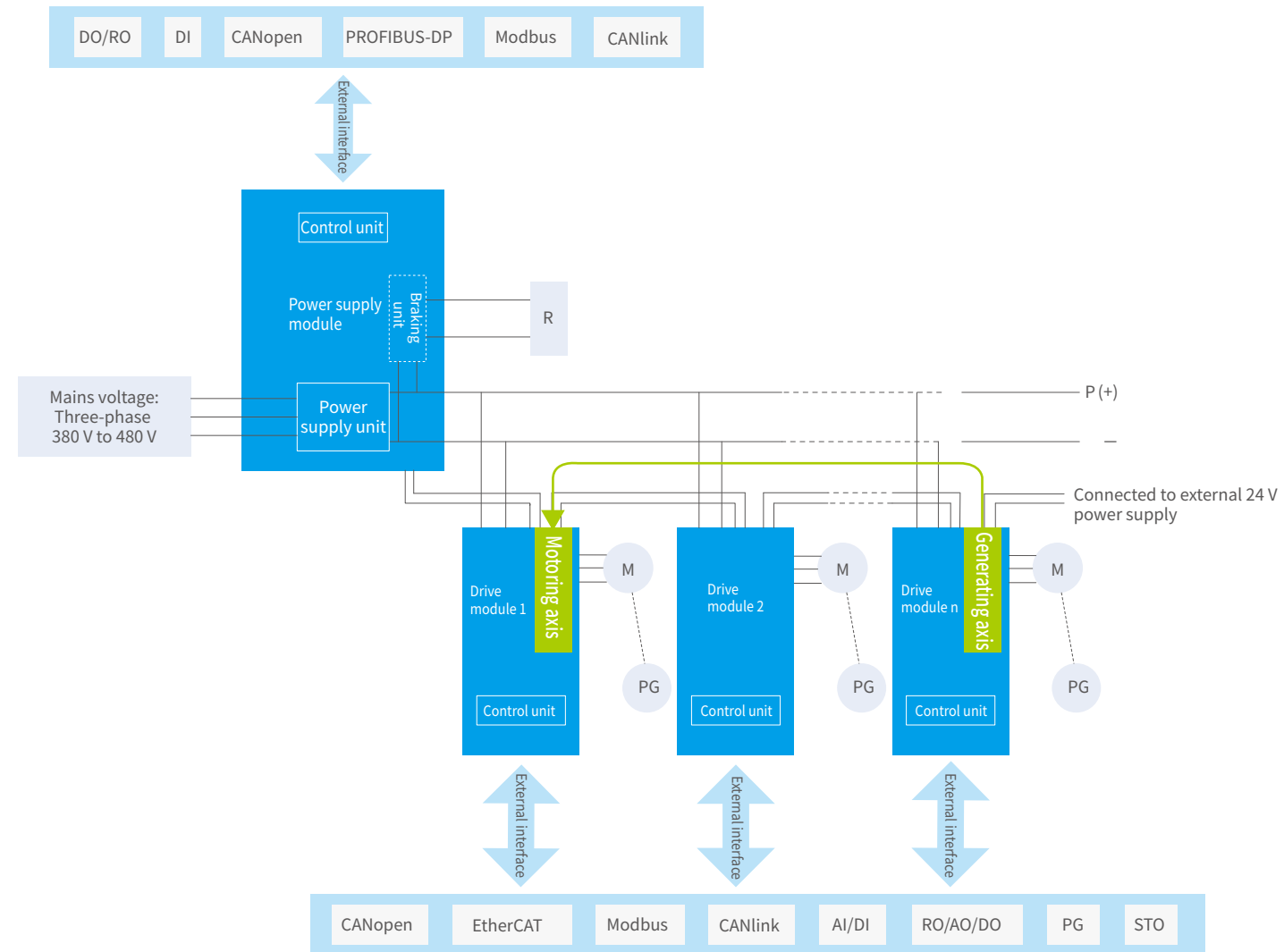
Lower footprint

Booksized modular design with equal height and depth to allow compact installation within extremely limited space
Higher cabinet occupancy rate and smaller floor space

Simplified power distribution process

Efficient power distribution achieved through MiniBus DC busbar link-up via the patch

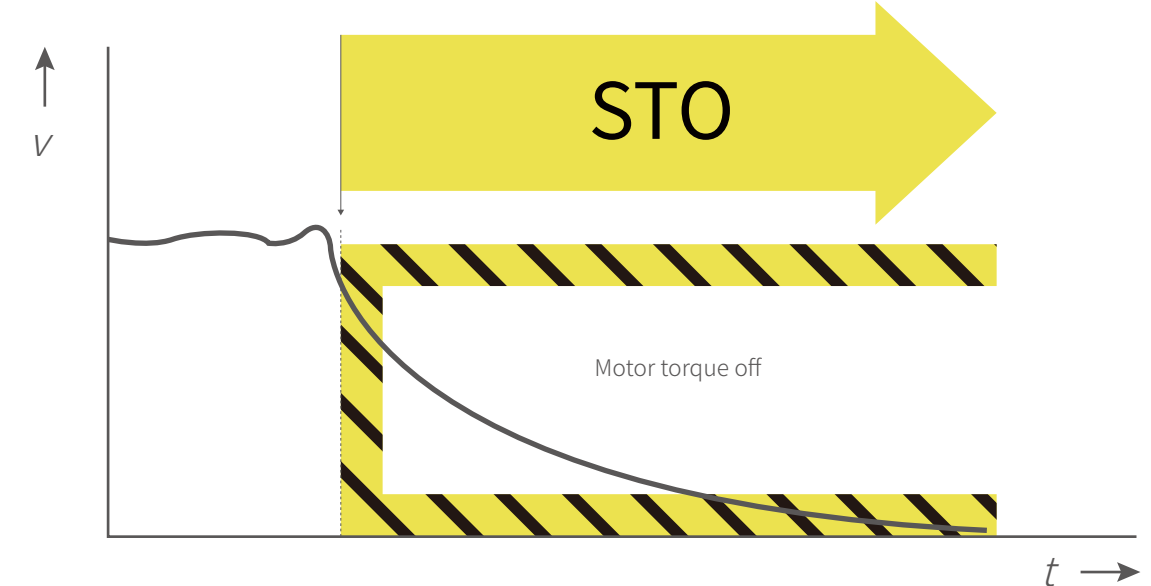
Flexible Portfolio for Optimal Energy Efficiency



Efficient and Energy-saving

Common DC bus energy distribution to cut the need for regenerative resistors and enable a more energy-saving operation

Safe Operation and Reliable Application



STO - Safety torque off, compliant with the stop category 0 of EN60204-1

Function:

Cut off the motor power upon fault to prevent accidental start.

Advantages:

1. Replace the quick-wear parts like breakers
2. Continue to monitor the system status if the drive kept powered on
3. Resume production quickly if the drive kept powered on

Typical applications:

1. Prevent accidental device startup during inspection
2. Stop output without power-down if the safety door opened accidentally

Electrical Specifications of IS810N-INT Series Servo Drives

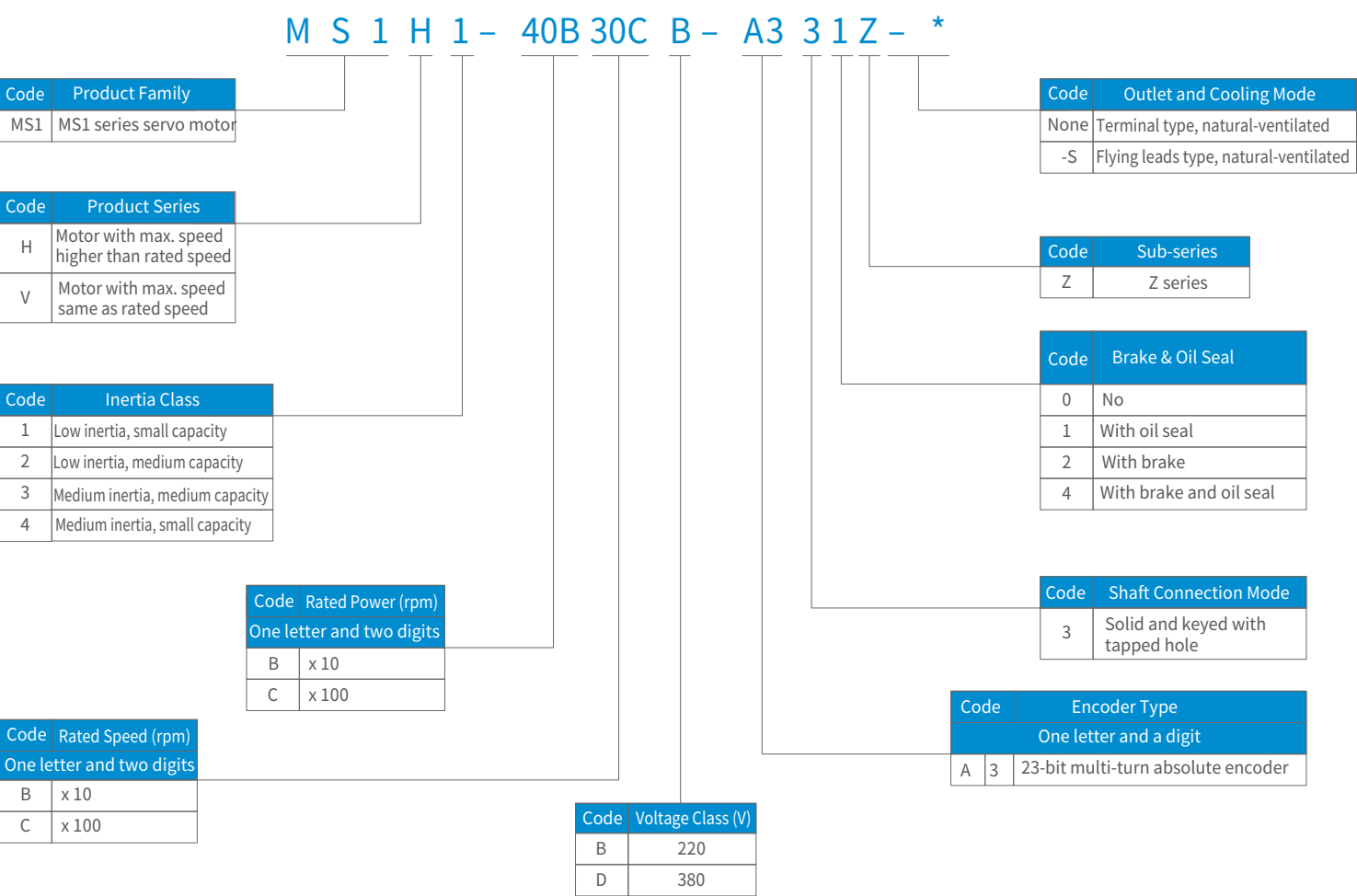
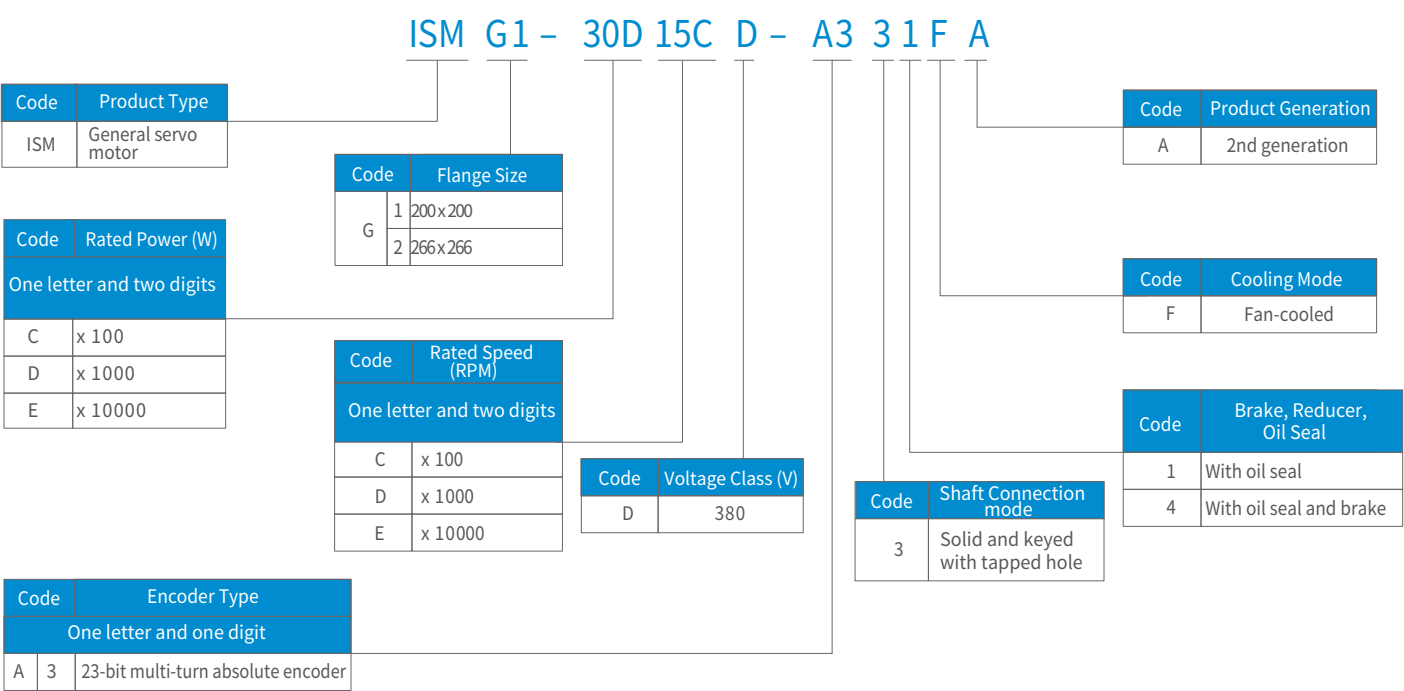
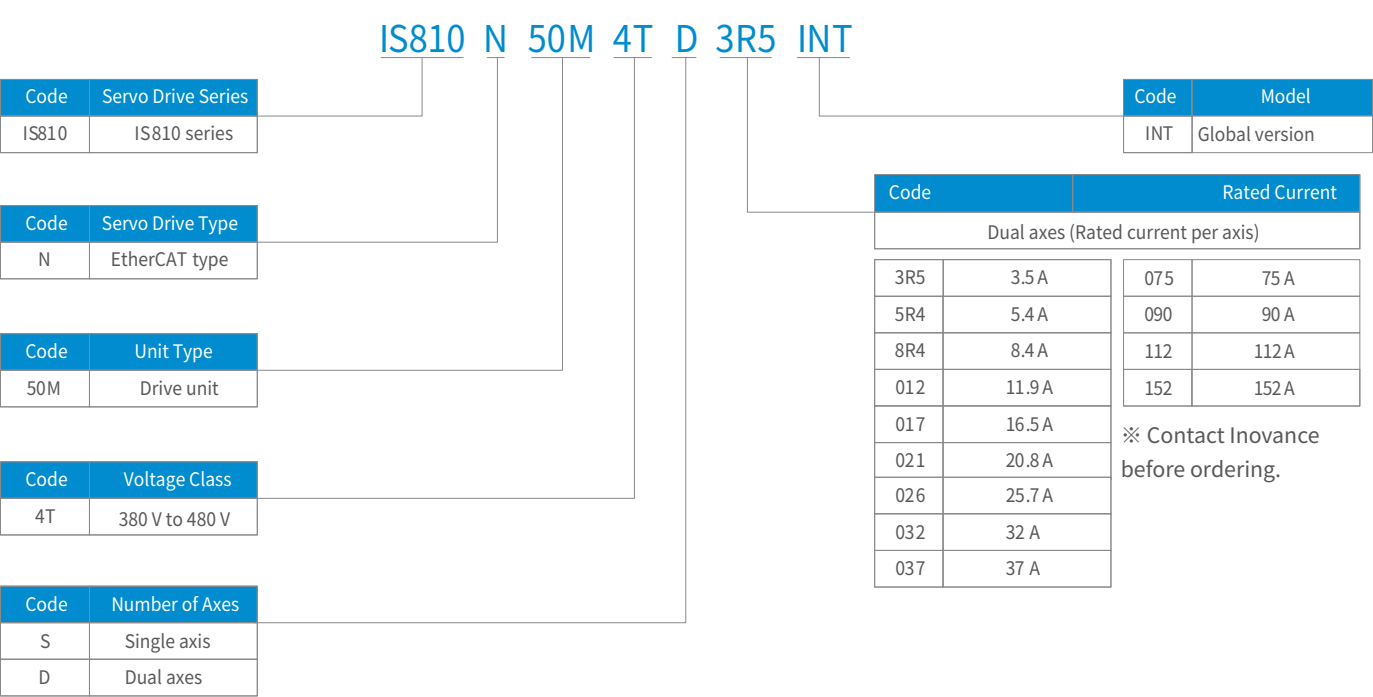
Item	SIZE-1				SIZE-2			
Model: IS810N	T3R5	T5R4	T8R4	T012	T017	T021	T026	
Continuous output current (Arms)	3.5	5.4	8.4	11.9	16.5	20.8	25.7	
Max. output current (Arms)	8.5	14	20	28	42	55	65	
Main circuit power supply	537 VDC to 679 VDC							
Control circuit power supply	24 VDC, -10% to +10%							
Item	SIZE-2					SIZE-3		
Model: IS810N	T032	T037	T045	T060	T075	T091	T112	T152
Continuous output current (Arms)	32	37	45	60	75	91	112	152
Max. output current (Arms)	80	92.5	112.5	150	187.5	227.5	280	380
Main circuit power supply	537 VDC to 679 VDC							
Control circuit power supply	24 VDC, -10% to +10%							

※ Contact Inovance before ordering.

Basic Specifications of IS810N-INT Series Servo Drive

Item			Description
Basic specifications	Control mode		IGBT PWM control, sine wave current drive mode 380 V: Three-phase full-wave rectification
	Encoder feedback		Inovance 20-bit serial incremental encoder Inovance 23-bit serial absolute encoder
	Operating conditions	Ambient temperature ⁽¹⁾	0°C to 40°C (Derating is required if the ambient temperature is above 40°C. Derate by 1.5% for every additional 1°C. The max. ambient temperature is 50°C.)
		Storage temperature	-40°C to +70°C
		Ambient/Storage humidity	Below 90% RH (no condensation)
		Vibration/Impact resistance level	4.9 m/s², 19.6 m/s²
		IP rating	IP20 (power terminals excluded)
		Pollution level	Level 2
		Altitude	Below 1000 m (Derating is required if the altitude exceeds 1000 m. Derate by 1% for every additional 100 m. The max. altitude is 3000 m.)
EtherCAT slave specification	Basic performance of EtherCAT slaves	Communication protocol	EtherCAT protocol
		Supported service	CoE (PDO, SDO)
		Synchronization mode	DC-Distributed clock
		Physical layer	100BASE-TX
		Baud rate	100 Mbit/s (100Base-TX)
		Duplex mode	Full duplex
		Topology structure	Ringlike or linear
		Transmission medium	Cat 5e or above network cables
		Transmission distance	Less than 100 m between two nodes (with proper environment and good cables)
		Number of slaves	Up to 65535 by protocol, not exceeding 100 in actual use
		EtherCAT frame length	44 bytes to 1498 bytes
		Process data	Up to 1486 bytes per frame
		Synchronous jitter of two slaves	< 1 μs
		Refresh interval	1000 DI/DOs: About 30 μs 100 servo axes: About 100 μs
		Bit error rate	10 ⁻¹⁰ Ethernet standard
	EtherCAT configuration unit	Number of FMMU units	8
		Number of synchronous memory management units	8
		Process data RAM	8 KB
		Distributed clock	64-bit
		EEPROM capacity	32 Kbit
Input/Output signals	DI signals (shared by two axes)	Signal assignment changeable	8 DIs (HDI4 and HDI8 being high-speed DI) 37 DI functions: S-ON, alarm reset, gain switchover, main/auxiliary running command switchover, multi-speed DI running direction switchover, multi-reference switchover (four DIs), zero speed clamp selection, position reference prohibition, positive limit switch, negative limit switch, positive external torque limit, negative external torque limit, forward jog, reverse jog, step reference selection, handwheel override signal 1, handwheel override signal 2, handwheel enable signal, electronic gear selection, torque reference direction, speed reference direction, position reference direction, multi-position selection, interrupt positioning unlock, home switch, homing selection, braking, position deviation clear, internal speed limit selection, pulse reference prohibition
	DO signals (shared by two axes)	Signal assignment changeable	2 DOs 19 DO functions: Servo ready, motor rotation, zero speed signal, speed matching, positioning completed, positioning near, torque limit, speed limit, brake output, alarm output, fault output, alarm code (3-digit), interrupt positioning completed, homing completed, electrical homing completed, torque arrival, speed arrival
Built-in functions	Over-travel (OT) prevention		Stop immediately when P-OT or N-OT is activated
	Electronic gear ratio		0.1048576 ≦ B/A ≦ 419430.4
	Protections		Including protections against overcurrent, overvoltage, undervoltage, overload, main circuit detection error, heatsink overheat, power supply phase loss, overspeed, encoder error, CPU error, and parameter error
	LED display		5-digit LED display with a CHARGE indicator for the main power supply
	Analog monitoring		Built-in analog monitoring connector for observing signals including the speed signal and torque reference signal
	Others		Gain adjustment, alarm record, jog

Naming Rules of Motors for IS810N-INT Series Servo Drives



Model selection

Motor	Recommended drive model		Chassis width(mm)	Encoder cable		Power cable		Brake cable		Fan cable	Connector kit options	Closed-loop connectors	Battery kits	Drive to PC comm. cable	Drive to host controller comm. cable	Multi-drive EtherCAT cable
MS1H1-05B30CB-A330Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT (dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-05B30CB-A332Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	—	—	S6-L-B107-3.0 (front outlet)	S6-L-B108-3.0 (rear outlet)	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-10B30CB-A330Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-10B30CB-A332Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	—	—	S6-L-B107-3.0 (front outlet)	S6-L-B108-3.0 (rear outlet)	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-20B30CB-A331Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-20B30CB-A334Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	—	—	S6-L-B107-3.0 (front outlet)	S6-L-B108-3.0 (rear outlet)	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-40B30CB-A331Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-40B30CB-A334Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	—	—	S6-L-B107-3.0 (front outlet)	S6-L-B108-3.0 (rear outlet)	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-55B30CB-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-75B30CB-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-75B30CB-A334Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	—	—	S6-L-B107-3.0 (front outlet)	S6-L-B108-3.0 (rear outlet)	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H1-10C30CB-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P024-3.0 (front outlet)	S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet)	S6-L-M108-3.0 (rear outlet)	—	—	—	—	—	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-10C30CB-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-10C30CB-A334Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-10C30CD-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-10C30CD-A334Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-15C30CB-A331Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-15C30CB-A334Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-15C30CD-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-15C30CD-A334Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-20C30CD-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-20C30CD-A334Z-S4	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-25C30CD-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-25C30CD-A334Z-S4	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-30C30CD-A331Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-30C30CD-A334Z-S4	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-40C30CD-A331Z	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-40C30CD-A334Z-S4	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-50C30CD-A331Z	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H2-50C30CD-A334Z-S4	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-85B15CB-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-85B15CB-A334Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-85B15CD-A331Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-85B15CD-A334Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-13C15CB-A331Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-13C15CB-A334Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-13C15CD-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-13C15CD-A334Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-18C15CD-A331Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M111-3.0	—	—	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-18C15CD-A334Z	IS810N50M4TS8R4INT (single-axis)	IS810N50M4TD8R4INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B111-3.0	—	—	S81-C2	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-29C15CD-A331Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	S6-L-M112-3.0	—	—	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-29C15CD-A334Z	IS810N50M4TS012INT (single-axis)	IS810N50M4TD012INT(dual-axis)	50	S6-L-P021-3.0	—	—	—	S6-L-B112-3.0	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-44C15CD-A331Z	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	100	S6-L-P021-3.0	—	S6-L-M122-3.0	—	—	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-44C15CD-A334Z	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT(dual-axis)	100	S6-L-P021-3.0	—	—	—	S6-L-B122-3.0	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-55C15CD-A331Z	IS810N50M4TS021INT (single-axis)	IS810N50M4TD021INT(dual-axis)	100	S6-L-P021-3.0	—	S6-L-M122-3.0	—	—	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-55C15CD-A334Z	IS810N50M4TS021INT (single-axis)	IS810N50M4TD021INT(dual-axis)	100	S6-L-P021-3.0	—	—	—	S6-L-B122-3.0	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-75C15CD-A331Z	IS810N50M4TS026INT (single-axis)	IS810N50M4TD026INT(dual-axis)	100	S6-L-P021-3.0	—	S6-L-M122-3.0	—	—	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H3-75C15CD-A334Z	IS810N50M4TS026INT (single-axis)	IS810N50M4TD026INT(dual-axis)	100	S6-L-P021-3.0	—	—	—	S6-L-B122-3.0	—	—	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**

Model selection

电机	推荐匹配驱动器型号		机箱宽度 (mm)	编码器线缆	动力线线缆	抱闸电缆	风机电缆	接插套件选配件	全闭环接插件	电池套件	伺服驱动器 PC通讯线缆	上位机和伺服 通讯线缆	EtherCAT 多机并连线
MS1H4-40B30CB-A331Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT (dual-axis)	50	S6-L-P024-3.0 (front outlet) S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet) S6-L-M108-3.0 (rear outlet)	—	—	—		S6-C9	S6-L-T04-**	SS6-L-T04-**	S6-L-T04-**
MS1H4-40B30CB-A334Z	IS810N50M4TS3R5INT (single-axis)	IS810N50M4TD3R5INT (dual-axis)	50	S6-L-P024-3.0 (front outlet) S6-L-P025-3.0 (rear outlet)	—	S6-L-B107-3.0 (front outlet) S6-L-B108-3.0 (rear outlet)	—	—		S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H4-75B30CB-A331Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT (dual-axis)	50	S6-L-P024-3.0 (front outlet) S6-L-P025-3.0 (rear outlet)	S6-L-M107-3.0 (front outlet) S6-L-M108-3.0 (rear outlet)	—	—	—		S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
MS1H4-75B30CB-A334Z	IS810N50M4TS5R4INT (single-axis)	IS810N50M4TD5R4INT (dual-axis)	50	S6-L-P024-3.0 (front outlet) S6-L-P025-3.0 (rear outlet)	Customized	S6-L-B107-3.0 (front outlet) S6-L-B108-3.0 (rear outlet)	—	—		S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-95C15CD-A331FA	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-95C15CD-A334FA	IS810N50M4TS017INT (single-axis)	IS810N50M4TD017INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	Customized (Aviation connector delivered by default)		S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-12D20CD-A331FA	IS810N50M4TS021INT (single-axis)	IS810N50M4TD021INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-14D15CD-A331FA	IS810N50M4TS026INT (single-axis)	IS810N50M4TD026INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-14D15CD-A334FA	IS810N50M4TS026INT (single-axis)	IS810N50M4TD026INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	Customized (Aviation connector delivered by default)		S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-17D15CD-A331FA	IS810N50M4TS032INT (single-axis)	IS810N50M4TD032INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-17D15CD-A334FA	IS810N50M4TS032INT (single-axis)	IS810N50M4TD032INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	Customized (Aviation connector delivered by default)		S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-18D20CD-A331FA	IS810N50M4TS032INT (single-axis)	IS810N50M4TD032INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-22D15CD-A331FA	IS810N50M4TS037INT (single-axis)	IS810N50M4TD037INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-22D15CD-A334FA	IS810N50M4TS037INT (single-axis)	IS810N50M4TD037INT (dual-axis)	100	S6-L-P021-3.0-PTC	Customized	Customized (Aviation connector delivered by default)		S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-23D20CD-A331FA	IS810N50M4TS037INT-P (single-axis)	IS810N50M4TD037INT (dual-axis)	200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-28D20CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-30D15CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-30D15CD-A334FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	Customized (Aviation connector delivered by default)		S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG1-41D20CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-31D15CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-42D20CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-42D15CD-A331FA	IS810N50M4TS075INT-P (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-52D15CD-A331FA	IS810N50M4TS090INT (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-57D20CD-A331FA	IS810N50M4TS090INT (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-60D15CD-A331FA	IS810N50M4TS112INT (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-70D20CD-A331FA	IS810N50M4TS152INT (single-axis)		200	S6-L-P021-3.0-PTC	Customized	—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-80D20CD-A331FA	IS810N50M4TS152INT (single-axis)		200	S6-L-P021-3.0-PTC		—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**
ISMG2-80D15CD-A331FA	IS810N50M4TS152INT (single-axis)		200	S6-L-P021-3.0-PTC		—	Customized	S81-C3	S6-C6	S6-C9	S6-L-T04-**	S6-L-T04-**	S6-L-T04-**

Note: ** indicates the cable length, which can be 3.0 m, 5.0 m, 10.0 m.

Note: ** indicates the cable length, which can be 3.0 m, 5.0 m, 10.0 m, or other values.

Simplified Structure Industrial-style Design

- Chic gray color
- Neat and clean layout
- Clear and concise lines
- Compact structure



About us



Headquarters in Shenzhen

Headquartered in Shenzhen, with multiple subsidiaries in major cities such as Suzhou and Hong Kong

Shenzhen Inovance Technology Co., Ltd. (stock code: SZ.300124) was founded in 2003 and has a current stock market value of about RMB 160 billion. Inovance is the key force in developing industrial automation and drive technologies in China and a provider of optical-mechatronics-hydraulic-pneumatic integrated solutions covering drive, control, motor, and precision machineries.

Inovance achieved an annual revenue of RMB 17.943 billion and an operating profit of RMB 3.573 billion in 2021, which grew by 56% and 70% respectively on a YoY basis. Headquartered in Shenzhen, Inovance has established multiple production bases in Suzhou, Changzhou, Yueyang, and Nanjing, as well as subsidiaries, resident offices, and service centers in over 20 countries and regions worldwide. As of 2021, Inovance has obtained 2,186 patents and software copyrights. Through continuous investment in R&D, Inovance has enhanced its technical strength in such fields as motor and drive control, industrial control software, electric drive assembly for new energy vehicles, digitalization, and industrial robots.

Inovance is dedicated to the development of core technologies in motor drive and control, power electronics, and industrial Internet communication, with business covering industrial automation, elevator electrical accessories, new energy vehicles, industrial robots, and rail transit. Inovance aims to provide integrated solutions and industry-tailored products based on various industry needs, creating continuous values for customers.

The core technologies of Inovance not only covers the information layer, control layer, drive layer, execution layer, and perception layer, but also covers such fields as industrial automation, elevator, new energy vehicle, and rail transit, including:

- ① high performance vector control technology, servo control technology, and high-power IGCT drive technology in the drive layer;
- ② small- to large-scale PLC technology, CNC control technology, robot control technology, and high-speed bus technology in the control layer;
- ③ high-performance servo motor technology, high-efficiency motor technology, high-speed motor and magnetic levitation bearing technology, high-precision encoder design and process technology, precision transmission machine design and process technology, and image recognition technology in the execution layer;
- ④ industrial Internet, edge computing, industrial AI technology in the information layer; and
- ⑤ process technologies in industries including new energy vehicle, elevator, air conditioner, air compressor, 3C manufacturing, lithium battery, silicon, crane, injection molding machine, textile, metal product, printing, and packaging.

Inovance has been listed into "CCTV Top 10 Socially Responsible Corporate in Top 50 Listed Companies in China" in 2017, "National Enterprise Technology Center" in 2021, "First Batch of Postdoctoral Workstation in Shenzhen", "Top 100 Innovative Enterprises in Jiangsu", "First Batch of Key R&D Projects in Intelligent Robot in China", and "New Energy Vehicle Power Assembly Engineering Center in Jiangsu".

67 offices in China **300** authorized distributors **2500+** sales and service staff
1020 service centers **6** inventory centers

A comprehensive service network to offer timely response to customer demands

NOTES