

Power Solutions

- ☐ Telecom Power
- ☐ Server Power
- ☐ Electric Power
- ☐ Medical Power
- ☐ Display Power
- ☐ LED Power
- ☐ Laser Power
- ☐ OA Power
- ☐ Flat Panel Power
- ☐ Bi-directional Inverters for Portable Power
- ☐ Solar & BESS & EV Charging Solution

Industrial Automation

- ☒ AC driver
- ☐ Servo System
- ☐ Control System
- ☐ Elevator Controller
- ☐ Linear Motors
- ☐ IoT Solution
- ☐ Encoder
- ☐ Variable Frequency Drive
- ☐ Internal Gear Pump

eMobility & EV Infrastructure

- ☐ Integrated Charging System (OBC & DC-DC)
- ☐ Power Electronic Unit (2-in-1, 3-in-1)
- ☐ E-Compressor
- ☐ TV EDU
- ☐ Inverter
- ☐ Construction Machinery Controller
- ☐ Intelligent Active Hydraulic Suspension (i-AHS)
- ☐ Railway A/C Controller
- ☐ Railway VFD
- ☐ Thermal Mgmt. System
- ☐ Light Electric Vehicle Motors, Inverters, and Charging System

Intelligent Equipment

- ☐ Intelligent Welding
- ☐ Electric Submersible-Progressing Cavity Pump
- ☐ Industrial Microwave
- ☐ Polysilicon Water Quenching Equipment
- ☐ Automatic Car Washing Machine
- ☐ Intelligent Lifting Devices

Home Appliance Control Solutions

- ☐ Residential A/C Controller
- ☐ Commercial A/C Controller
- ☐ Heat Pump Controller
- ☐ Vehicle A/C Controller
- ☐ Solar A/C Controller
- ☐ Mini Compressor Controller
- ☐ Refrigerator Controller
- ☐ Washer/Dryer Controller
- ☐ Residential Microwave
- ☐ Industrial Microwave
- ☐ Smart Bidet
- ☐ RF Thawing System

Precision Connection

- ☐ FFC
- ☐ FPC
- ☐ Coaxial Cable
- ☐ CCS
- ☐ Litz Wire
- ☐ Peek Wire

SHENZHEN MEGMEET ELECTRICAL CO., LTD.

Add 1: 5th Floor, Block B, Unisplendour Information Harbor,
Langshan Rd., Science & Technology Park, Nanshan District,
Shenzhen, 518057, China

Add 2: 34th Floor, High-tech Zone Union Tower, No.63 Xuefu
Road, Nanshan District, Shenzhen, 518057, China

Version: 202508

Megmeet reserves the right to modify the technical parameters and appearance of the products in this catalogue without prior advice to the users.

FOLLOW US

Q Megmeet



MV800 Series

New Generation Platform Drive

MV810 | MV820 | MV830 | MV850





CONTENTS

01 About Megmeet

Company profile	01
-----------------	----

02 MV800 series

Product introduction	02
Applications	03
Designation rule	04
Product features	05-14
Technical specifications	15-16

03 MV810

Subseries overview	18
Technical parameters	19
Standard operation wiring	20
Installation dimensions	21-22

04 MV820

Subseries overview	24
Technical parameters	25
Standard operation wiring	26-27
Installation dimensions	28-31

ABOUT MEGMEET

MEGMEET is a comprehensive solution provider for hardware and software R&D, production, sales, and service in the field of electrical automation. With power electronics and automation control at its core, MEGMEET's main businesses include Power Solutions, Industrial Automation, eMobility & EV Infrastructure, Intelligent Equipment, Home Appliance Control Solutions, and Precision Connection.

MEGMEET has established a robust R&D, manufacturing, marketing, and service platform, with over 8,200 employees, including more than 2,800 R&D staff worldwide. MEGMEET's global presence includes R&D Centers in China, the United States, and Germany; Manufacturing Centers in Thailand, India, the United States, and China; and Regional Offices across North America, South America, Europe, Central Asia, Northeast Asia, Southeast Asia, India, the Middle East, Oceania, and Africa.

MEGMEET is committed to creating a cleaner living environment for all human beings through more efficient energy utilization and improved manufacturing efficiency. MEGMEET aims to become the world leader in electrical automation and achieve the goal of MEGMEET EVERYWHERE.

 **2800+**
R&D Staff

 **10**
R&D Centers

 **9**
R&D Manufacturing Bases

 **7800+**
Total Employees

 **1990+**
No. of Patents & IP Rights



MV800 Series Platform Drive

New Generation High Performance General Purpose Vector Drive Platform

The MV800 series is Megmeet's new generation of high-performance general-purpose vector drive platform, comprising subseries of MV810, MV820, MV830, and MV850 AC drives. The entire portfolio is superbly engineered on a new platform of core hardware, with the structural compactness significantly enhanced and the motor control algorithm remarkably optimized. This series provides the integrated drive for asynchronous and permanent magnet synchronous motors, as well as the integrated control of speed and torque. Additionally, it supports various encoders, flexible I/O, and communication expansions, delivering a multifunctional and user-friendly experience to meet diverse application needs in the high-performance general-purpose motor drive market.

MV810

- | Single-phase 220 V: 0.4~2.2 kW
- | Three-phase 220 V: 3.7~7.5 kW
- | Three-phase 380 V: 0.75~75 kW

MV820

- | Single-phase 220 V: 0.4~2.2 kW
- | Three-phase 220 V: 3.7~7.5 kW
- | Three-phase 380 V: 0.75~220 kW

MV830

- | Three-phase 380 V: 0.4~110 kW

MV850

- | Three-phase 380 V: 0.4~400 kW



Applications

The MV800 series AC drives are widely used for fans, pumps, textile processing, woodworking, packaging, metal working, and applications alike.



Water pump



Woodworking machinery



Printing and packaging



Ceramic machinery



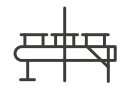
Mining



Fan



Textile printing and dyeing



Metalworking machinery



Plastics machinery



CNC machine tool



Designation Rule



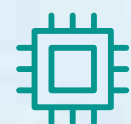
MV810 G 1-4 T 5.5 B T S (XXX)

1 2 3 4 5 6 7 8 9 10

1 Product series MV810: MV810 series MV820: MV820 series MV830: MV830 series MV850: MV850 series	2 Application G: General purpose S: Servo positioning T: Tension control F: Fly-cut	3 Product iteration 1: Customization
4 Input voltage class 2: 220 V 4: 380 V / 480 V	6 Power class 5.5: 5.5 kW MV810: 0.4 to 75 kW MV820: 0.4 to 220 kW	9 Safety function Null: Not included S: STO
5 Input voltage phase S: Single-phase T: Three-phase	7 Braking unit Null: Not included B: Built-in braking unit 8 Reactor Null: Not included T: DC reactor	10 Non-standard XXX: Customer number

MV800 Series Features

New core hardware platform



New MCU Processor



Optimized motor control



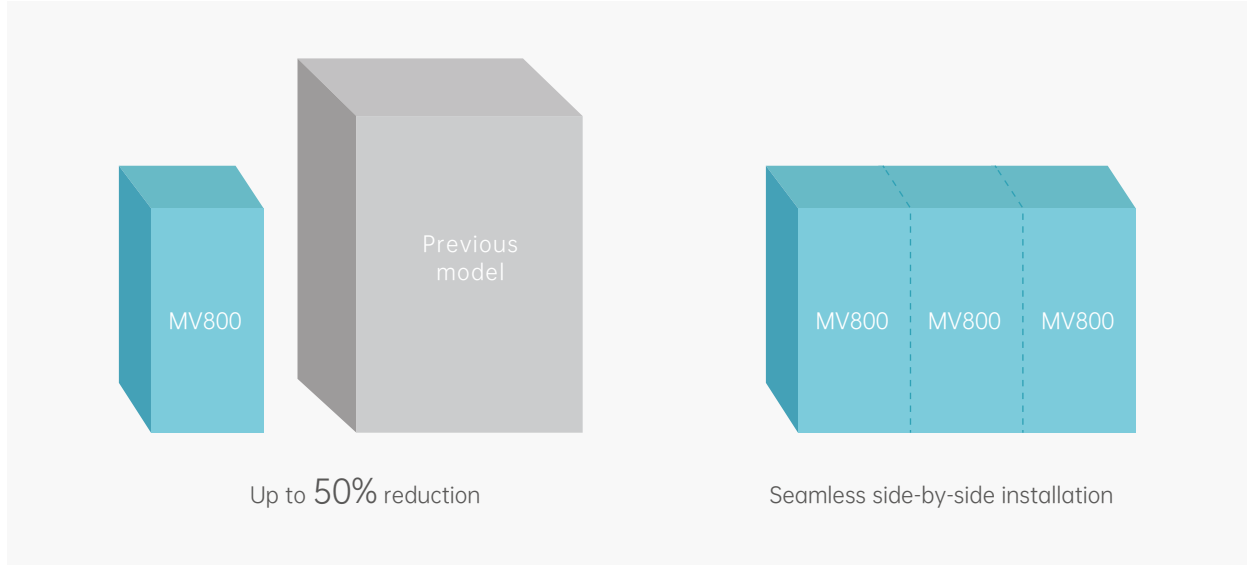
More extensive function modules



Digital conversion of input terminals

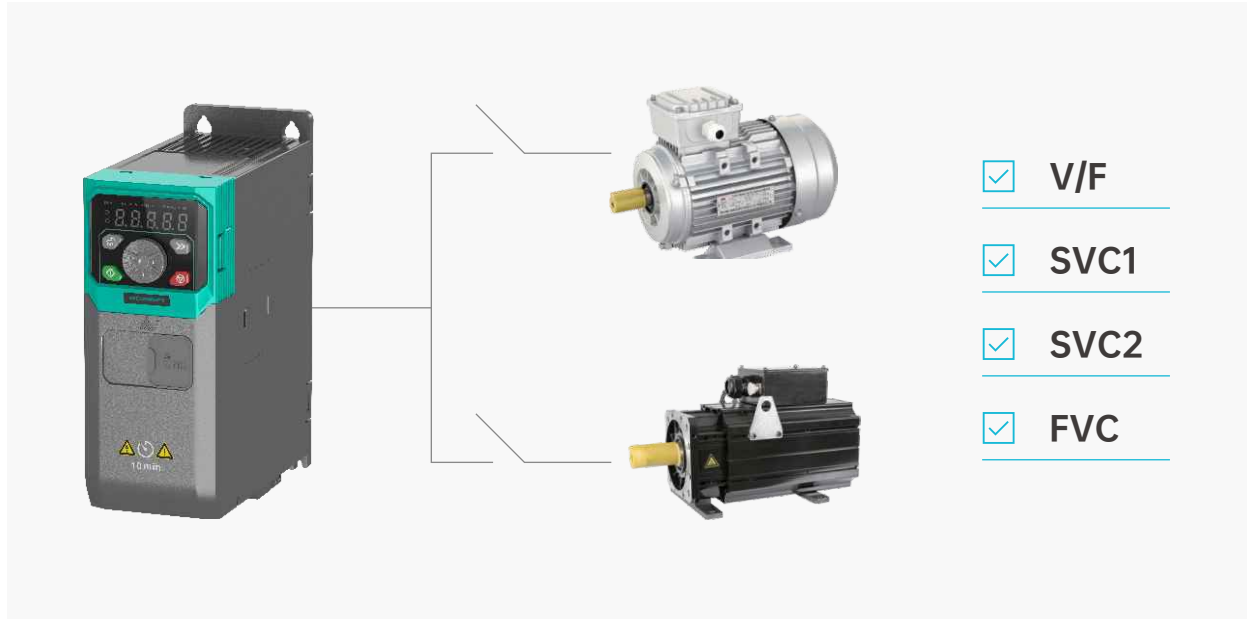
Minimized footprint & book-style installation

- The entire series adopts the European narrow-body structure design, significantly minimizing the overall dimensions and reducing the space needed for installation in the electrical cabinet.
- All models provide independent air ducts at the top and bottom, enabling a seamless book-style side-by-side layout in group installation that greatly improves space efficiency.



Integrated control/drive

- Integrated drive of asynchronous and permanent magnet synchronous motors.
- Integration of V/F, SVC and FVC control.
- Integration of speed and torque modes.
- Optimized motor algorithms for more accurate parameter adjustment.
- Time-based multi-motor drive.
- Customization of non-standard functions; industry-specific algorithms.



Control modes for MV800

Product series / Control mode	MV810	MV820	MV830	MV850
V/F	✓	✓	✓	✓
SVC1	✓	✓	✓	✓
SVC2	✓	✓	✓	✓
FVC	✓	✓	✓	✓

Drive motors for MV800

Product series / Drive motor	MV810	MV820	MV830	MV850
Asynchronous	✓	✓	✓	✓
Synchronous	✓	✓	✓	✓
Reluctance	-	-	✓	✓

Compatible encoders

- Ordinary square wave incremental type (ABZ)
- Ordinary square wave incremental type (ABZ/UVW)
- Resolver
- SinCos
- Others (Magnetic encoders, communication encoders)

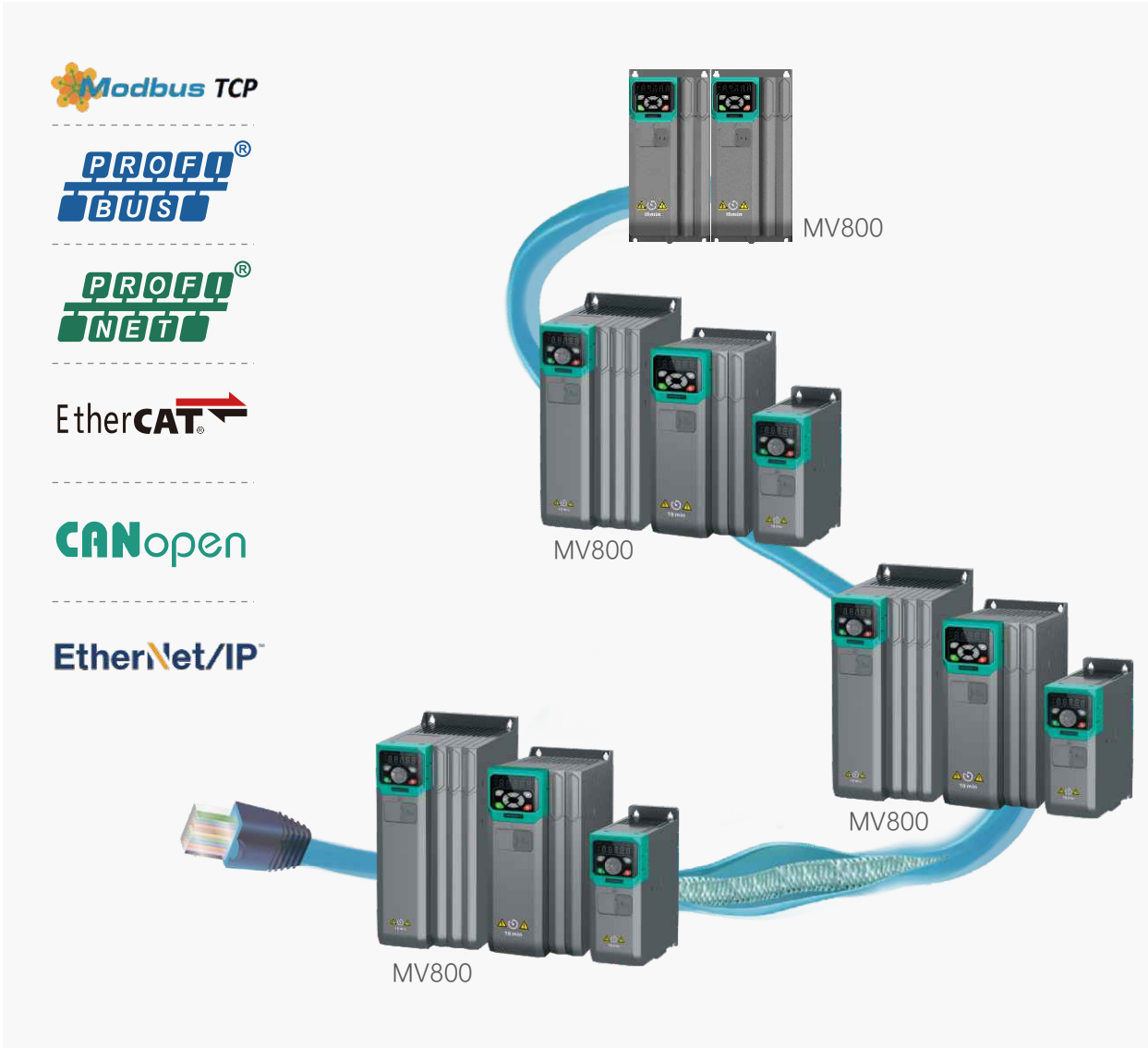


Encoders for MV800

Product series / Encoder	MV810	MV820	MV830	MV850
ABZ	✓	✓	✓	✓
ABZ/UVW	-	-	✓	✓
Resolver	✓	✓	✓	✓
SinCos	-	-	✓	✓
Others	-	-	✓	✓

Flexible communication expansions

Modbus as standard configuration;
Profibus-DP, Profinet, EtherCAT, CANopen, and Ethernet communication cards as options.



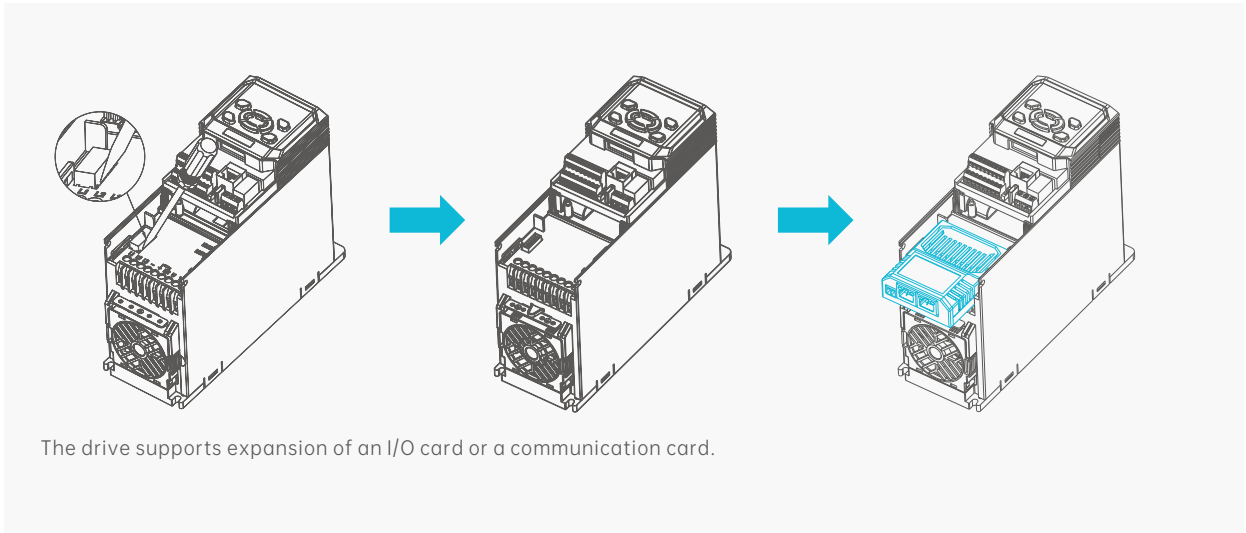
Bus types for MV800

Product series / Bus type	MV810	MV820	MV830	MV850
Profibus-DP	-	-	✓	✓
Profinet	✓	✓	✓	✓
EtherCAT	✓	✓	✓	✓
CANopen	✓	✓	✓	✓
Modbus TCP	✓	✓	✓	✓
Ethernet/IP	✓	✓	✓	✓

Note: MV830 and MV850 are under development.

I/O expansions

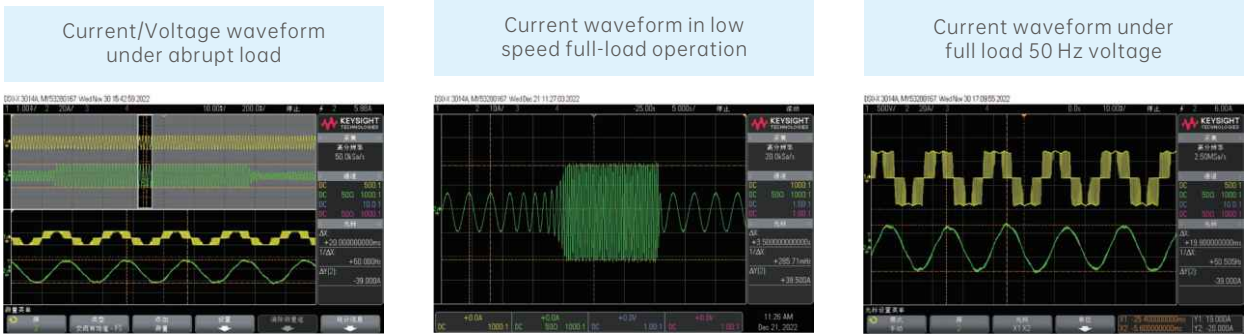
The drive provides 8 DI, 3 DO, 2 AI, and 1 AO. I/O expansion cards are available and can be installed via the expansion box.



The drive supports expansion of an I/O card or a communication card.

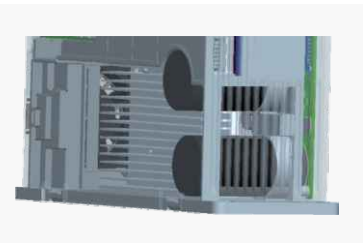
Note: MV830 and MV850 are under development.

Excellent drive performance (Test in SVC1 mode with 5.5 kW asynchronous motor)



High stability, reliability, and adaptability

Independent air duct design and galvanic isolation to avoid dust intervention



PCBA three-proof coating for seamless protection



Optimal components and big allowance for prolonged service life



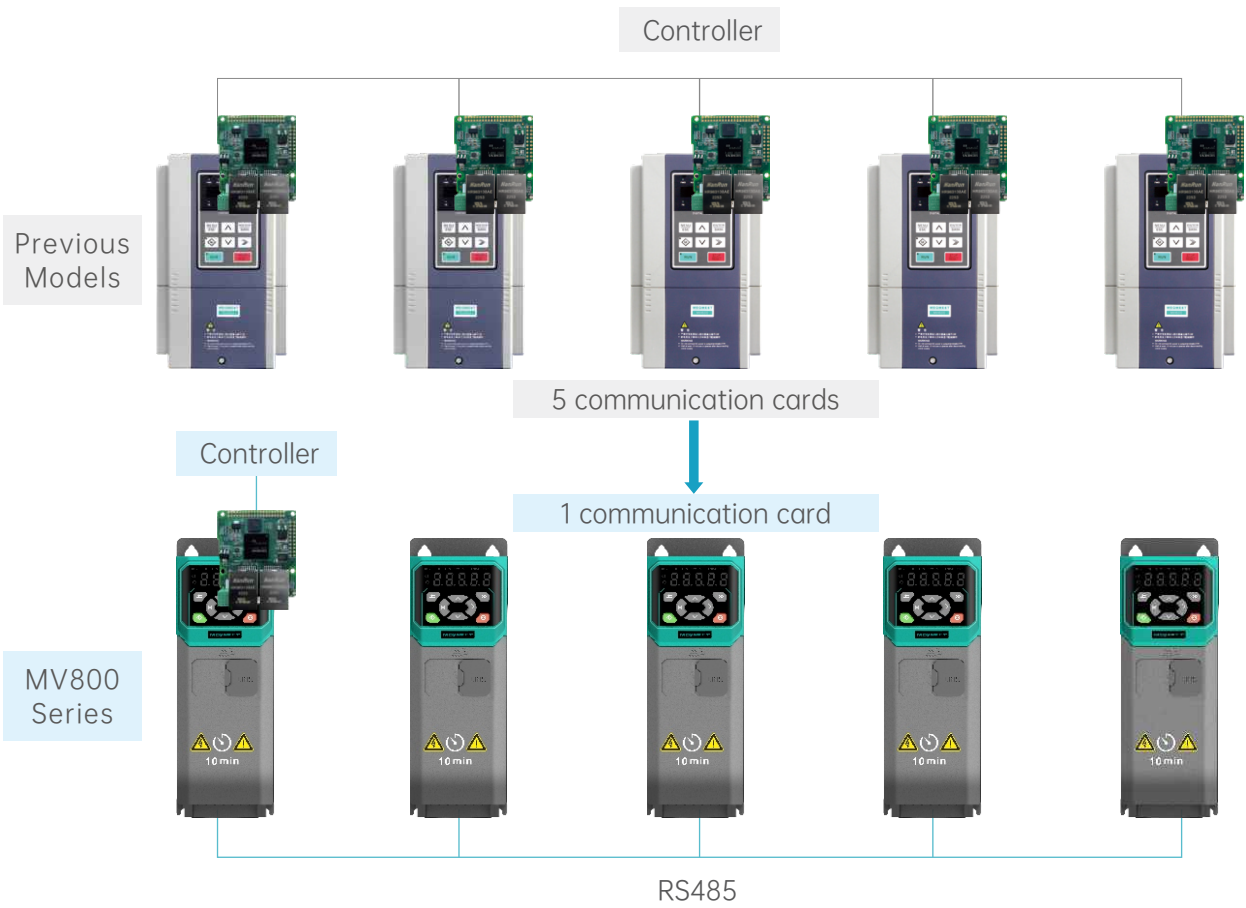
High electromagnetic compatibility

The entire series has the EMC filtering function. DCL is available for 30 kW models and above. These features offer high electromagnetic compatibility to minimize the need of clients for additional accessories.



Cost-efficient

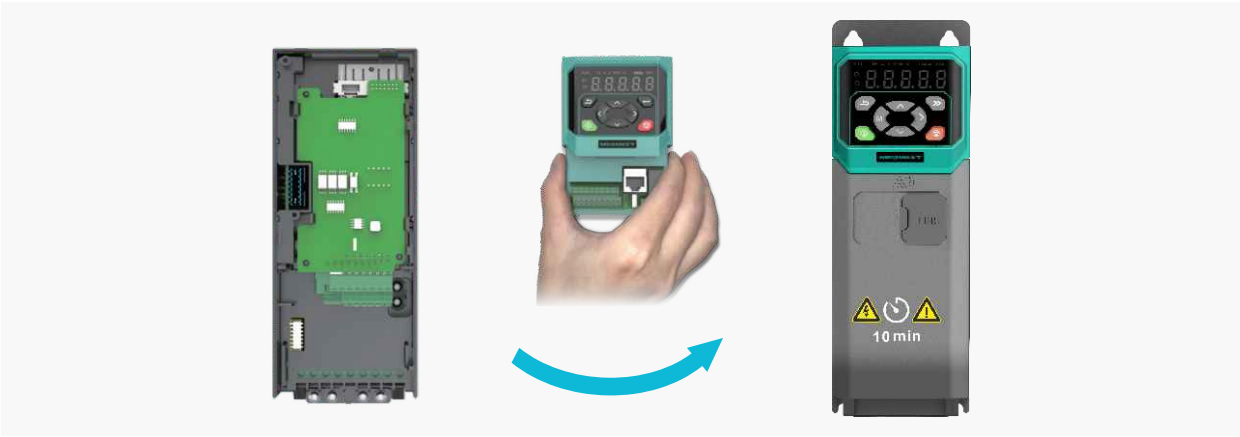
One communication card is able to control up to 5 drives, applicable for extruders and printing/packaging industries.



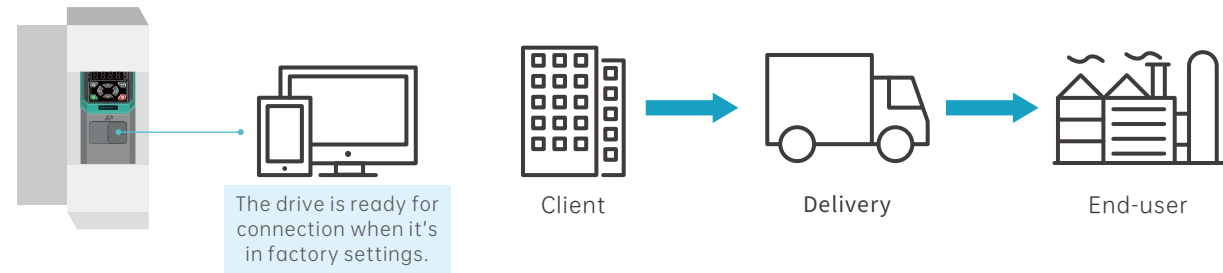
Quick response to faults

This series offers quick recovery in the event of common faults to effectively reduce the downtime. In case of function failures which reject reset, there is no need to replace the drive (or reset parameters on the replacement). Function shall be restored once the control box is replaced. Parameter backup methods include:

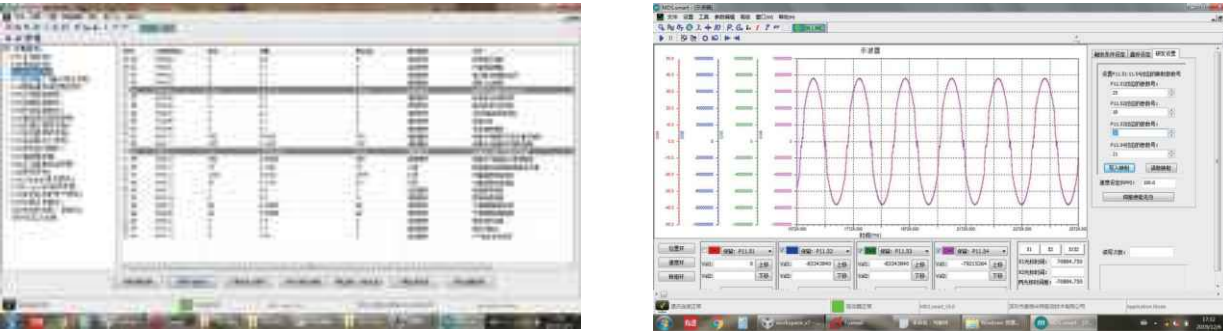
- ① Standard operating panel: 1 set of drive parameters can be stored
- ② Optional LCD operating panel: Multiple sets of drive parameters can be stored



In case no main power is supplied, connect the drive to PC or mobile phones for parameter setting.



Host controller software



- Parameter upload/download
- User-friendly HMI
- Communication based on USB2.0
- 4-channel 32-bit real-time oscilloscope display; sampling frequency up to 16K; multiple trigger modes

Easy to use

Easy installation, optional Size B model rail, side-by-side assembly for minimized footprint, fan cover pop-up design for easy replacement

Standard LED/LCD panel; optional remote LCD panel (Chinese/English); keypad expansion available (standard network cable)

Standard Type-C interface; the host controller commissioning software can upload/download parameters and save/import parameter files; electronic oscilloscope function is available

STO/NFC function

Dual-channel STO function

The drive cuts off output to the motor when the safe torque off function is triggered (push button or light curtain, etc.), for emergency stop and safe stop during mechanical maintenance.

NFC function

The drive provides an application-like function that supports NFC data exchange with mobile devices, further enhancing the convenience in use.

Keypad for subseries

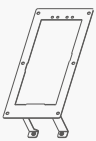
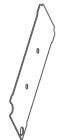
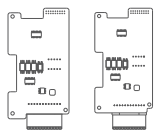
Product series	MV810	MV820	MV830	MV850
Keypad				
Fixed LED	✓	-	-	-
Removable small LED keypad with shuttle	-	✓	-	-
Removable large LED keypad	-	✓	-	-
Removable LCD	-	-	✓	✓

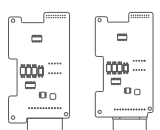
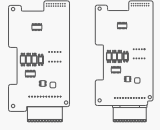
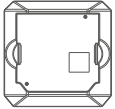
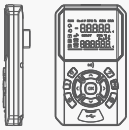
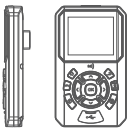
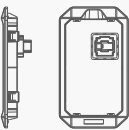
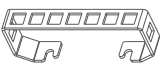
Note: The entire MV800 series supports remote LCD (IP66, RJ45 interface, optional).

Others

- The entire series supports common DC bus.
- Standard built-in braking unit for models up to 110 kW (included)
- Models of 18.5 kW and above integrate both the G type and the P type, which can be switched through the function code.
- Multi-function terminal supports high-speed pulse, motor thermistor input, etc.

Options & accessories

Type	Name	Model	Diagram	Support model	Function
Protection	Embedded mounting bracket kit	MV810-EMBB		0.4 to 3.7 kW	For embedded installation of drives, air duct protection, and independent heat dissipation
		MV810-EMBC		5.5 to 7.5 kW	
		MV810-EMBD		11 to 15 kW	
		MV810-EMBE		18.5 to 22 kW	
		MV810-EMBF		30/37 kW	
		MV810-EMBG		45 to 75 kW	
		MV810-EMBH		90 to 110 kW	
	Reinforced metal bottom plate	MV810-METB		All plastic-case models	For use in high-temperature or oily environment
		MV810-METC			
		MV810-METD			
Communication	PROFINET communication card	MV810-PNET01/02		Whole series	PROFINET protocol; 100 Mbps full duplex
	EtherCAT communication card	MV810-ECAT01/02		Whole series	EtherCAT communication standard; 100 Mbps full duplex
	CANopen communication card	MV810-CAN01		Whole series	CANopen communication standard; maximum 1 Mbps
	TCP communication card	MV810-TCP01		Whole series	Modbus TCP communication standard; 100 Mbps full duplex
	Ethernet/IP communication card	MV810-EIP01		Whole series	Ethernet/IP communication standard; 100 Mbps full duplex
PG card	ABZ card	MV810-PG11		0.4 to 3.7 kW	Suitable for use with 5 V differential encoders, open collector (OC) output encoders, and push-pull complementary output encoders, with 5 V and 12 V output voltage options
		MV810-PG21		5.5 kW and above	
	ABZ card with STO	MV810-PG11S		0.4 to 3.7 kW	Suitable for use with 5 V differential encoders, open collector (OC) output encoders, and push-pull complementary output encoders, with 5 V and 12 V output voltage options; STO function
		MV810-PG21S		5.5 kW and above	

Type	Name	Model	Diagram	Support model	Function
PG card	Resolver card	MV810-PG12		0.4 to 3.7 kW	The card provides a resolver interface, and supports communication of the excitation signal (EXC+/-) and the feedback signal (SIN+/- and COS+/-) as the speed or position feedback
		MV810-PG22		5.5 kW and above	
	Resolver card with STO	MV810-PG12S		0.4 to 3.7 kW	The card provides a resolver interface, and supports communication of the excitation signal (EXC+/-) and the feedback signal (SIN+/- and COS+/-) as the speed or position feedback; the STO function is available
		MV810-PG22S		5.5 kW and above	
	Differential pulse card	MV810-PG13		0.4 to 3.7 kW	The card supports 5 V ABZ signal input as the speed or position feedback, and the differential pulse command input
		MV810-PG23		5.5 kW and above	
IO card	I/O expansion	MV810-IO01		Whole series	Input expansion: DI9 to DI11 Output expansion: RO2 to RO3
Installation and maintenance	Small LED keypad	MV820-DP01		MV810 MV820	Shuttle, parameter copy function
	Small keypad mounting base	MV820-JPT01		Whole series	Used to mounting the MV820 small LED keypad on the cabinet door
	Large LED keypad	MV820-DP03		Whole series	Dual-row LED display
	Large LCD keypad	MV820-DP02		Whole series	LCD display
	Large keypad mounting base	MV820-JPT02		Whole series	Used to mounting the MV820 large LED keypad or LCD keypad on the cabinet door
	Wire fixation bracket	MV810-FIXB MV810-FIXC MV810-FIXD		MV810/MV820: 0.4 to 15kW	Grounding of the shielded cable; wire fixation
	Guide rail bracket	MV-DIN3563		Size B	Standard DIN 35 mm guide rail bracket mounting base, 63 mm mounting distance

Technical Specifications

Input power	
Rated voltage (V)	2S/2T models: single/three-phase: 220 V to 240 V; voltage continuous fluctuation ±10%, transient fluctuation -15% to +10%, that is, 187 V to 264 V; voltage unbalance rate <3%, distortion rate compliant with IEC61800-2 4T models: three-phase 380 V to 480 V; voltage continuous fluctuation ±10%, transient fluctuation -15% to +10%, that is, 323 V to 528 V; voltage unbalance rate <3%
Rated input current (A)	Please refer to Table 1-1 of the user manual
Rated frequency (Hz)	50 Hz/60 Hz, fluctuation range ±2 Hz
Output power	
Standard applicative motor (kW)	
Rated capacity (kVA)	Please refer to table 1-1 of the user manual
Rated current (A)	
Rated voltage (V)	Three-phase output under rated input conditions, 0 to rated input voltage, deviation less than ±3%
Output frequency(Hz)	V/F: 0.00 to 599.0 Hz (unit: 0.01 Hz); vector control: 0.00 to 599.00 Hz;
Overload capacity	HD: 1 min for 150% rated current, 6 s for 180% rated current, 1 s for 200% rated current ND: 1 min for 110% rated current
Operation control features	
Control mode	Vector control without PG, V/F control; vector control with PG
Maximum output frequency	V/F control: 599.0 Hz; other control: 599.0 Hz; high frequency version: 3500 Hz
Speed regulation range	1: 200 (flux vector control without PG); 1: 1000 (flux vector control with PG)
Speed control precision	±0.5% (flux vector control without PG); ±0.02% (flux vector control with PG)
Speed fluctuation	±0.3% (flux vector control without PG); ±0.1% (flux vector control with PG)
Torque response	< 20 ms (flux vector control without PG); < 10 ms (flux vector control with PG)
Torque control	Torque control precision ±5% for flux vector control without PG (above 5 Hz for asynchronous motors; above 10 Hz for synchronous motors); torque control precision ±3% for flux vector with PG
Startup torque	0.25 Hz 150% (flux vector control without PG); 0.00 Hz 180% (flux vector control with PG)
Product functions	
Key functions	Fast tracking, over-torque/under-torque detection, torque limit, multi-speed reference, multiple acceleration/deceleration time switchover, auto-tuning, S curve acceleration/ deceleration, slip compensation, fan speed control, frequency hopping, energy saving operation, PID adjustment (sleep function), power dip ride-through, multi-command swithover, MODBUS communication, torque control, torque and speed control mode switchover, automatic restart, DC braking, dynamic braking; simple PLC, AVR, two sets of motor parameters switchover; fieldbus communication, master-slave control, etc.

Basic frequency	0.10 Hz to 599.00 Hz
Startup frequency	0.00 Hz to 50.00 Hz
Frequency setting mode	Digital panel setting, analog setting: AI1/AI2, terminal pulse HDI setting; simple PLC reference, multiple PLC reference, host controller communication setting, PID control reference, fieldbus communication
Acceleration/ Deceleration time	0.1 to 6000.0, (unit: 0.1 s)
Dynamic braking capacity	A built-in braking unit is the standard configuration for the whole MV810G1 series, and the MV820G models of 110 kW and below. Braking ratio: 0.0 to 100.0%
DC braking capacity	Startup frequency: 0.00 Hz to 599.00 Hz; braking time: 0.1 s to 50.0 s braking current: 0% to 100%, according to the nominal rated current of the drive
Terminal functions	Please refer to the terminal function part for details.
Protection function	
Please refer to fault protection part for details.	
Others	
Efficiency	7.5 kW or below: ≥93%; 15 kW or below: ≥95%
Installation method	Wall-mounted. Mounted vertically on a solid indoor base, with at least 100 mm space for air inlet and outlet, and at least 10 mm space on the left and right sides of the case (except for case A/B). The cooling medium is air.
IP rating	IP20
Cooling mode	Air cooling
Environment	
Operating site	Indoors, away from direct sunlight, free from dust, corrosive gas, combustible gas, oil mist, water vapor, water dripping or salt, etc.
Altitude	Normal use for altitude ≤ 1000 m; derated by 1% for every additional 100 m above 1000 m; maximum altitude for use: 3000 m.
Ambient temperature	-10°C to +50°C, air temperature change less than 0.5°C/min; derating required if the ambient temperature is above 40°C.
Humidity	5% to 95% RH; no condensing, rain, snow, or hail; solar radiation below 700 W/m²; air pressure: 70 to 106 kPa
Vibration	Sine vibration: 1.5 mm displacement for 2 to 9 Hz; 5.9 m/s² (0.6g) for 9 to 200 Hz
Storage temperature	-30°C to +70°C; air temperature change less than 1°C/min; maximum 60°C for long-term storage; 60°C to 70°C for short-term storage only

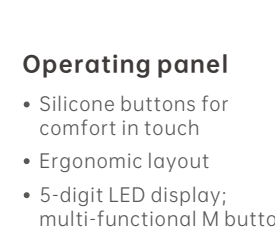
MV810 High-performance vector control drive

- Single-phase 220 V: 0.4 to 2.2 kW
- Three-phase 220 V: 3.7 to 7.5 kW
- Three-phase 380 V: 0.75 to 75 kW



MV810 Overview

Product appearance:
European style design, narrow-body structure, compact layout, and user-friendly interface. Multi-function terminals and rich expansions to meet diverse needs in applications.



Operating panel

- Silicone buttons for comfort in touch
- Ergonomic layout
- 5-digit LED display; multi-functional M button



Type-C interface

- Standard Type-C interface
- Host controller connection for parameter setting and status monitoring of the drive



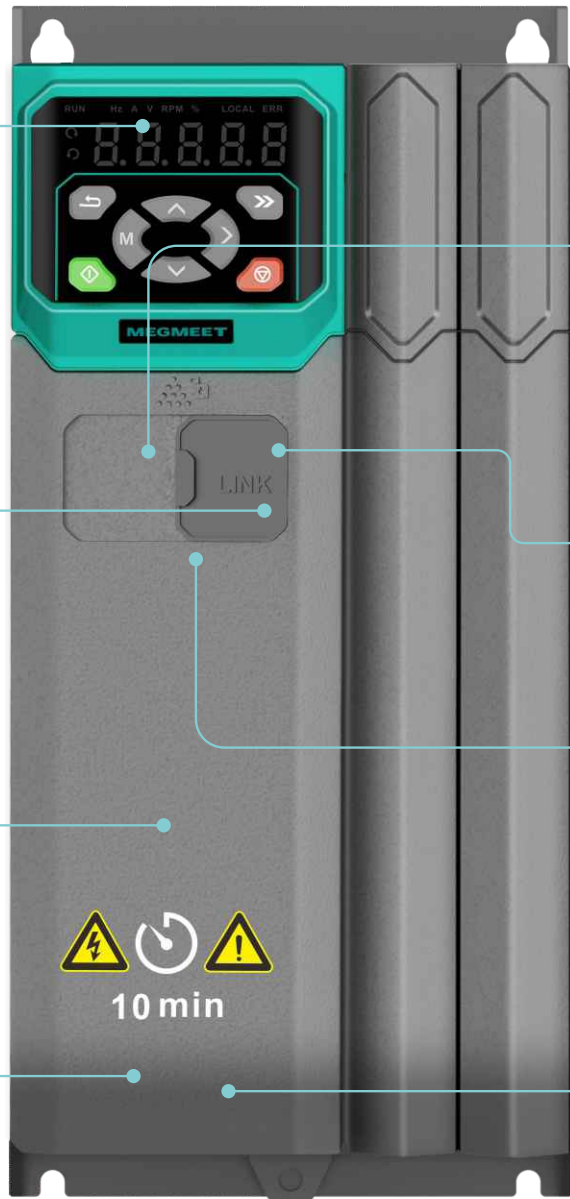
Lower cover plate

- Screwless design
- Slip-on mounting for fast and easy installation



Expansion box

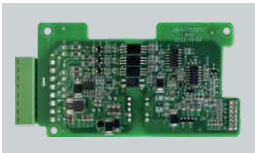
- Expansion bus communication card
- PROFINET
- EtherCAT
- CANopen
- Modbus TCP
- Ethernet/IP





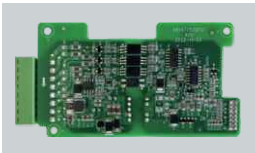
Multi-function terminals

- AI/AO
- DI/HDI
- DO/HDO
- Thermistor input



Standard network port

- Standard network port supports remote extension
- Remote LCD panel option available

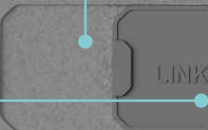


Expansion PG card



Cooling Fan

- Pop-up design of fan cover for easier replacement and cleaning



LINK

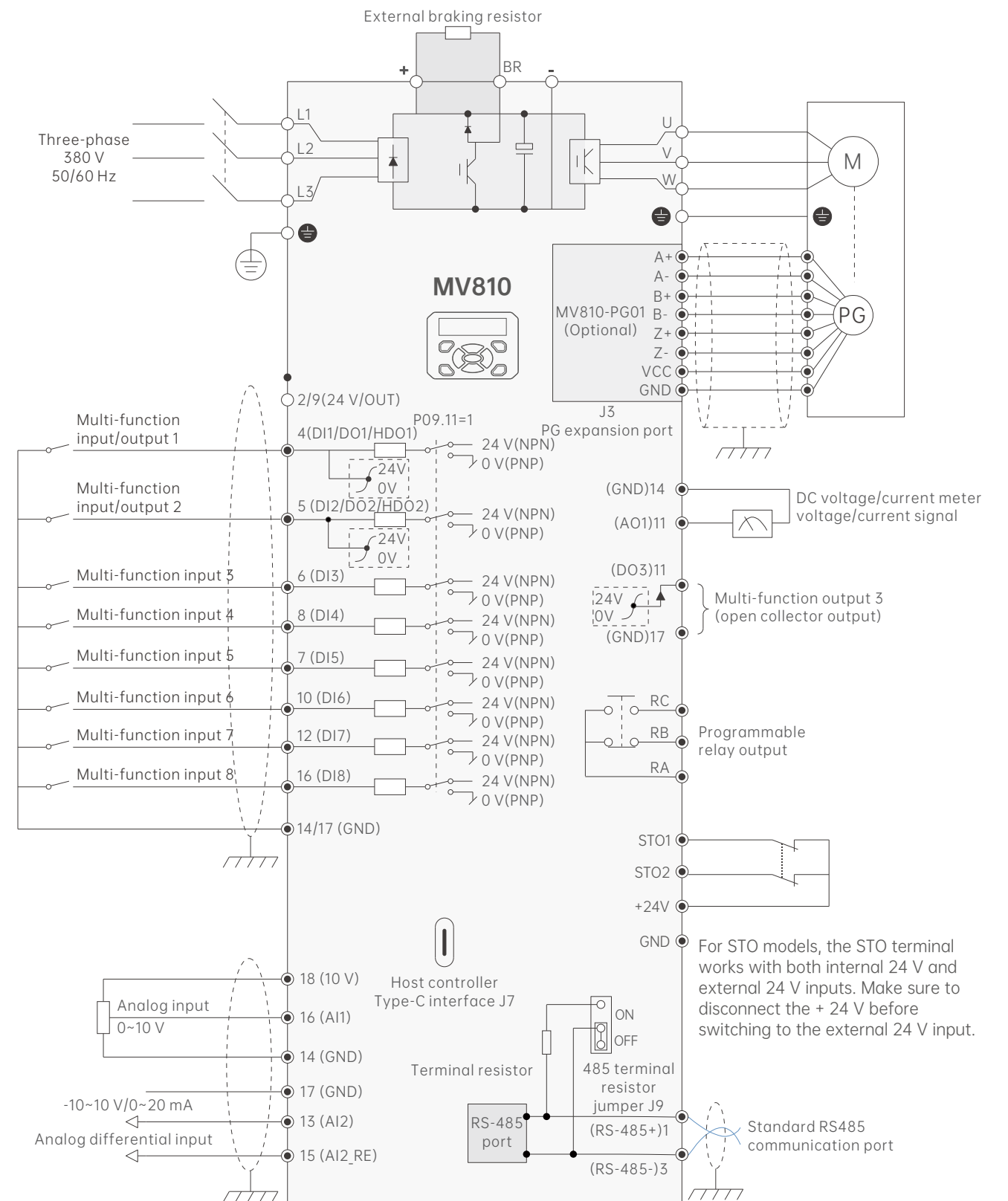


10 min

MV810 Technical Parameters

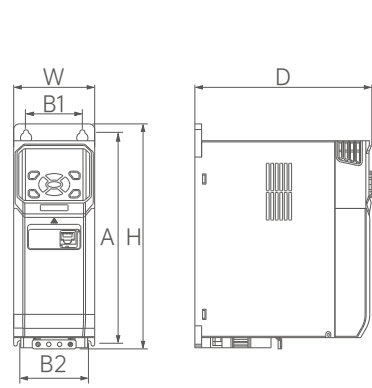
Enclosure model	Product model	Rated input current (A)		Rated output current (A)		Rated output power (kW)		Fan air volume (m³/min)
		HD	ND	HD	ND	HD	ND	
B	MV810G1-2S0.4B	5.3	/	2.4	/	0.4	/	0.4
	MV810G1-2S0.75B	10.4	/	4.2	/	0.75	/	0.4
	MV810G1-2S1.5B	16.2	/	7.5	/	1.5	/	0.48
	MV810G1-2S2.2B	23.0	/	9.4	/	2.2	/	0.48
	MV810G1-4T0.75B	3.5	/	2.7	/	0.75	/	0.4
	MV810G1-4T1.5B	5.1	/	4.2	/	1.5	/	0.4
	MV810G1-4T2.2B	5.8	/	5.6	/	2.2	/	0.48
	MV810G1-4T3.7B	10.5	/	9.4	/	3.7	/	0.48
C	MV810G1-2T3.7B	21.3	/	17.0	/	3.7	/	0.80
	MV810G1-4T5.5B	14.5	/	13.0	/	5.5	/	0.80
	MV810G1-4T7.5B	20.5	/	17.0	/	7.5	/	0.80
D	MV810G1-2T5.5B	32.0	/	25.0	/	5.5	/	1.8
	MV810G1-2T7.5B	41.0	/	32.0	/	7.5	/	1.8
	MV810G1-4T11B	26.0	/	25.0	/	11.0	/	1.8
	MV810G1-4T15B	35.0	/	32.0	/	15.0	/	1.8
E	MV810G1-4T18.5B	49.0	58.0	37.0	45.0	18.5	22.0	4.0
	MV810G1-4T22B	58.0	62.0	45.0	60.0	22.0	30.0	4.0
F	MV810G1-4T30B	62.0	76.0	60.0	75.0	30.0	37.0	5.8
	MV810G1-4T37B	76.0	92.0	75.0	90.0	37.0	45.0	5.8
G	MV810G1-4T45B	92.0	113.0	90.0	110.0	45.0	55.0	7.21
	MV810G1-4T55B	113.0	157.0	110.0	152.0	55.0	75.0	7.21
	MV810G1-4T75B	157.0	180.0	152.0	176.0	75.0	90.0	7.21

Standard Operation Wiring

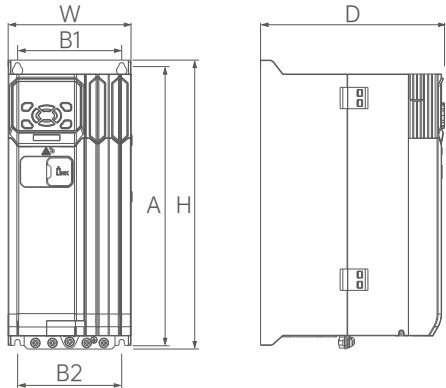


MV810 Installation Dimensions

Enclosure B

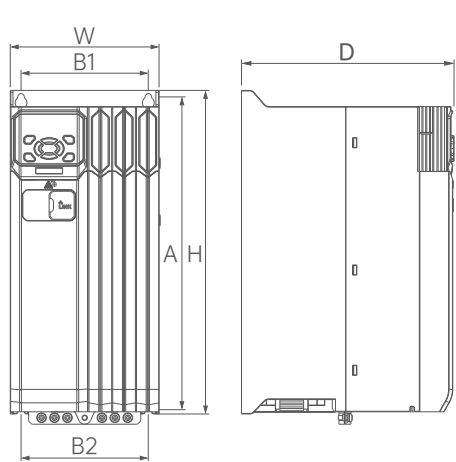


Enclosure C

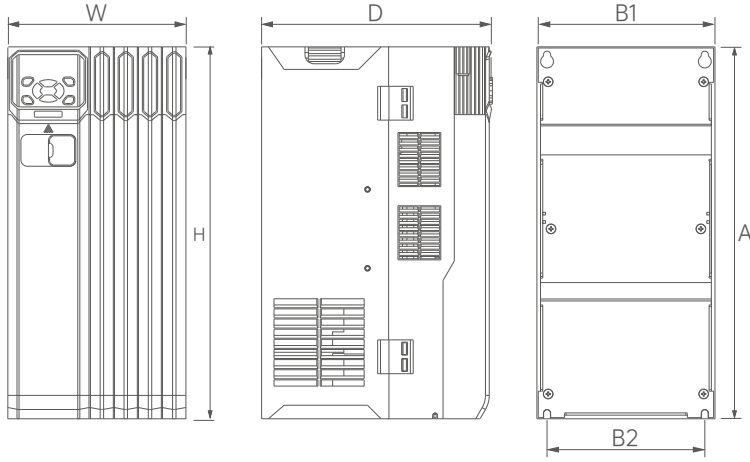


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
B	MV810G1-2S0.4B	187.5	50	61	200	72	162.2	4.5
	MV810G1-2S0.75B							
	MV810G1-2S1.5B							
	MV810G1-2S2.2B							
	MV810G1-4T0.75B							
	MV810G1-4T1.5B							
	MV810G1-4T2.2B							
	MV810G1-4T3.7B							
C	MV810G1-2T3.7B	259	97.5	97.5	270.4	115	172.2	5
	MV810G1-4T5.5B							
	MV810G1-4T7.5B							

Enclosure D

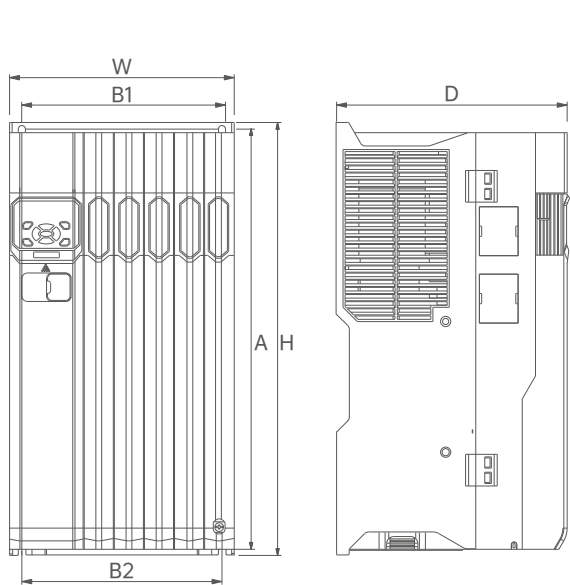


Enclosure E

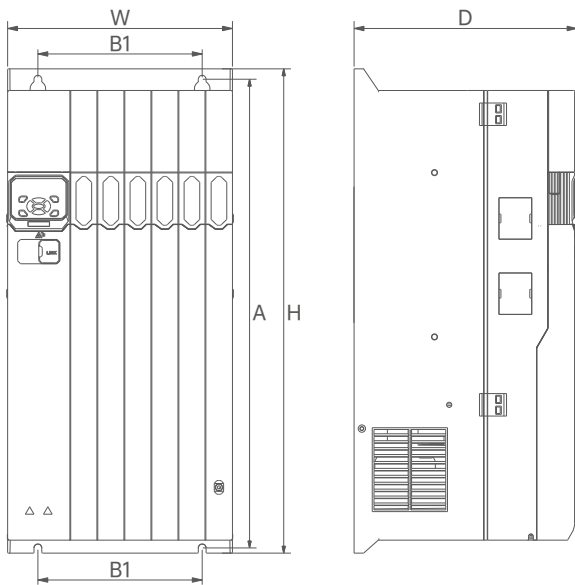


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
D	MV810G1-2T5.5B	290	118	118	309.5	138	197.2	6
	MV810G1-2T7.5B							
	MV810G1-4T11B							
	MV810G1-4T15B							
E	MV810G1-4T18.5B	318	140	140	330	158	204.8	6
	MV810G1-4T22B							

Enclosure F



Enclosure G



Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
F	MV810G1-4T30B	412	196	196	424	220	229	7
	MV810G1-4T37B							
G	MV810G1-4T45B	542	190	190	560	260	255	9
	MV810G1-4T55B							
	MV810G1-4T75B							

MV820 High-performance vector control drive

Single-phase 220 V: 0.4 to 2.2 kW

Three-phase 220 V: 3.7 to 7.5 kW

Three-phase 380 V: 0.75 to 220 kW

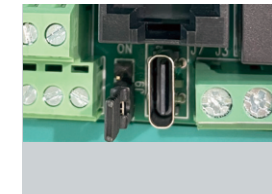


MV820 Overview

Product appearance:
European style design, narrow-body structure, compact layout, and user-friendly interface. Multi-function terminals and rich expansions to meet diverse needs in applications.

Operating panel

- Silicone buttons for comfort in touch
- Ergonomic layout
- 5-digit LED display; multi-functional M button
- Shuttle button



Type-C interface

- Standard Type-C interface
- Host controller connection for parameter setting and status monitoring of the drive

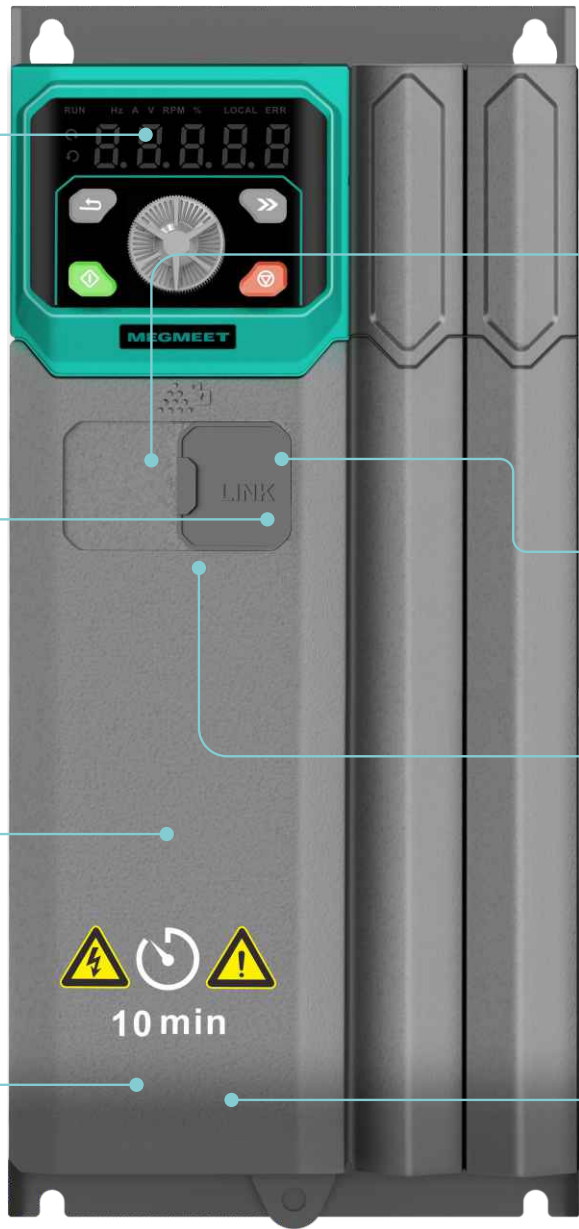
Lower cover plate

- Screwless design
- Slip-on mounting for fast and easy installation



Expansion box

- Expansion bus communication card
- PROFINET
- EtherCAT
- CANopen
- Modbus TCP
- Ethernet/IP

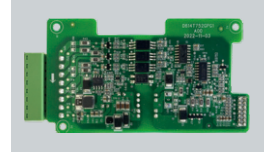


Multi-function terminals

- AI/AO
- DI/HDI
- DO/HDO
- Thermistor input

Standard network port

- Standard network port supports remote extension
- Remote LCD panel option available



Expansion PG card



Cooling Fan

- Pop-up design of fan cover for easier replacement and cleaning

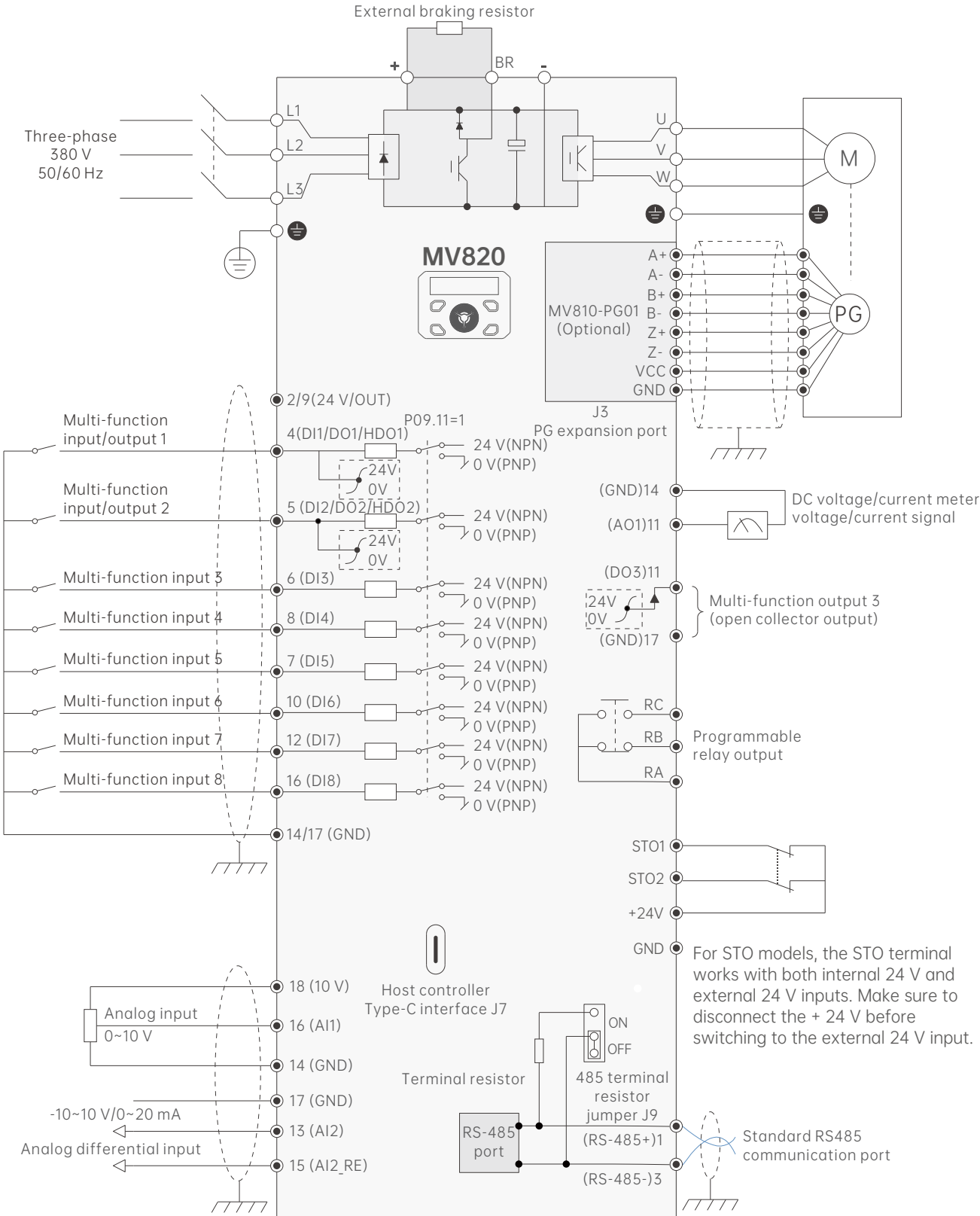
10 min

MV820 Technical Parameters

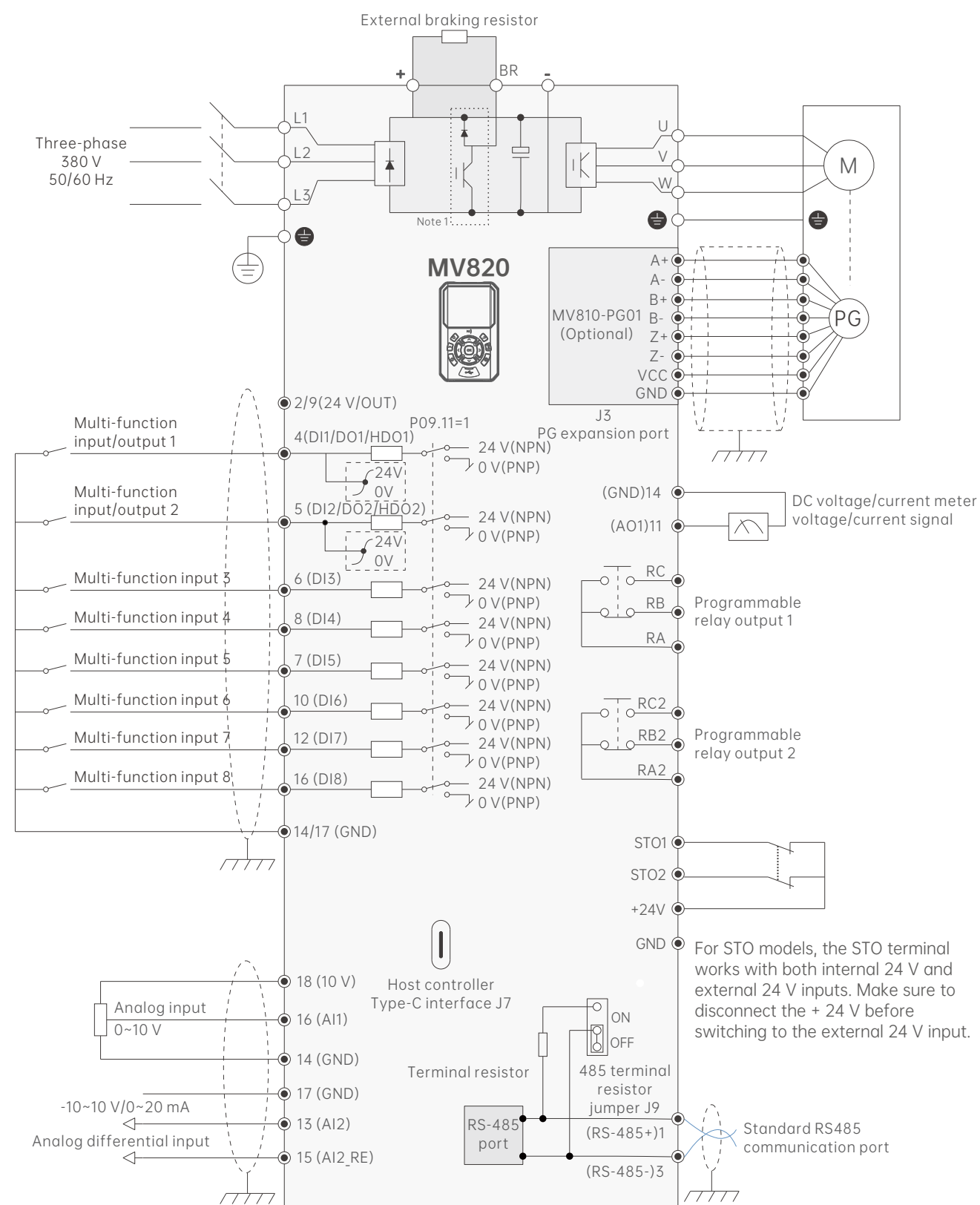
Enclosure model	Product model	Rated input current (A)		Rated output current (A)		Rated output power (kW)		Fan air volume (m³/min)
		HD	ND	HD	ND	HD	ND	
B	MV820G1-2S0.4B	5.3	/	2.4	/	0.4	/	0.4
	MV820G1-2S0.75B	10.4	/	4.2	/	0.75	/	0.4
	MV820G1-2S1.5B	16.2	/	7.5	/	1.5	/	0.48
	MV820G1-2S2.2B	23.0	/	9.4	/	2.2	/	0.48
	MV820G1-4T0.75B	3.5	/	2.7	/	0.75	/	0.4
	MV820G1-4T1.5B	5.1	/	4.2	/	1.5	/	0.4
	MV820G1-4T2.2B	5.8	/	5.6	/	2.2	/	0.48
	MV820G1-4T3.7B	10.5	/	9.4	/	3.7	/	0.48
C	MV820G1-2T3.7B	21.3	/	17.0	/	3.7	/	0.80
	MV820G1-4T5.5B	14.5	/	13.0	/	5.5	/	0.80
	MV820G1-4T7.5B	20.5	/	17.0	/	7.5	/	0.80
D	MV820G1-2T5.5B	32.0	/	25.0	/	5.5	/	1.8
	MV820G1-2T7.5B	41.0	/	32.0	/	7.5	/	1.8
	MV820G1-4T11B	26.0	/	25.0	/	11.0	/	1.8
	MV820G1-4T15B	35.0	/	32.0	/	15.0	/	1.8
E	MV820G1-4T18.5B	49.0	58.0	37.0	45.0	18.5	22.0	4.0
	MV820G1-4T22B	58.0	62.0	45.0	60.0	22.0	30.0	4.0
F	MV820G1-4T30B	62.0	76.0	60.0	75.0	30.0	37.0	5.8
	MV820G1-4T37B	76.0	92.0	75.0	90.0	37.0	45.0	5.8
G	MV820G1-4T45B	92.0	113.0	90.0	110.0	45.0	55.0	14.42
	MV820G1-4T55B	113.0	157.0	110.0	152.0	55.0	75.0	14.42
	MV820G1-4T75B	157.0	180.0	152.0	176.0	75.0	90.0	14.42
H	MV820G1-4T90B	180.0	214.0	176.0	210.0	90.0	110.0	14.42
	MV820G1-4T110B	214.0	256.0	210.0	253.0	110.0	132.0	14.42
I	MV820G1-4T132T	256.0	307.0	253.0	304.0	132.0	160.0	21.48
	MV820G1-4T160T	307.0	330.0	304.0	340.0	160.0	185.0	21.48
J	MV820G1-4T185T	330.0	368.0	340.0	380.0	185.0	200.0	21.48
	MV820G1-4T200T	368.0	410.0	380.0	426.0	200.0	220.0	21.48
	MV820G1-4T220T	410.0	440.0	426.0	465.0	220.0	250.0	21.48

Standard Operation Wiring

For 75 kW or below



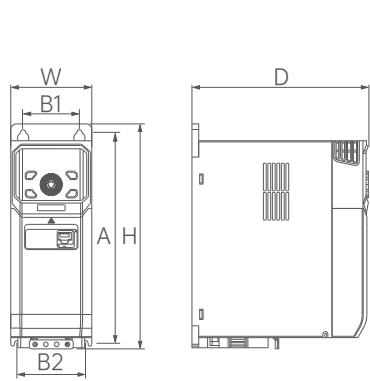
■ For 90 kW or above



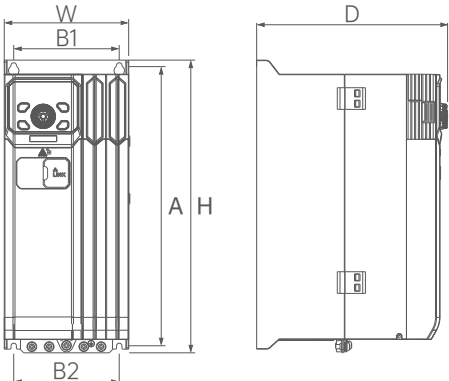
Note 1: For 132 kW or above, built-in braking unit is not included as standard.

MV820 Installation Dimensions

Enclosure B

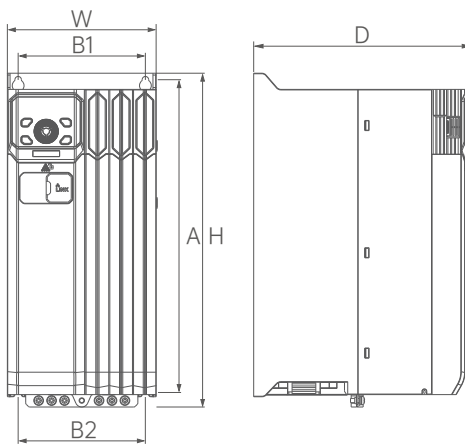


Enclosure C

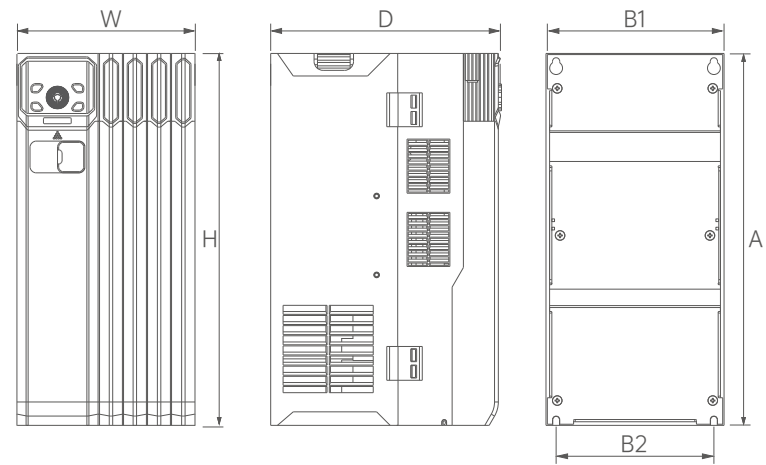


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
B	MV820G1-2S0.4B	187.5	50	61	200	72	162.2	4.5
	MV820G1-2S0.75B							
	MV820G1-2S1.5B							
	MV820G1-2S2.2B							
	MV820G1-4T0.75B							
	MV820G1-4T1.5B							
	MV820G1-4T2.2B							
C	MV820G1-2T3.7B	259	97.5	97.5	267	115	176.4	5
	MV820G1-4T5.5B							
	MV820G1-4T7.5B							

Enclosure D

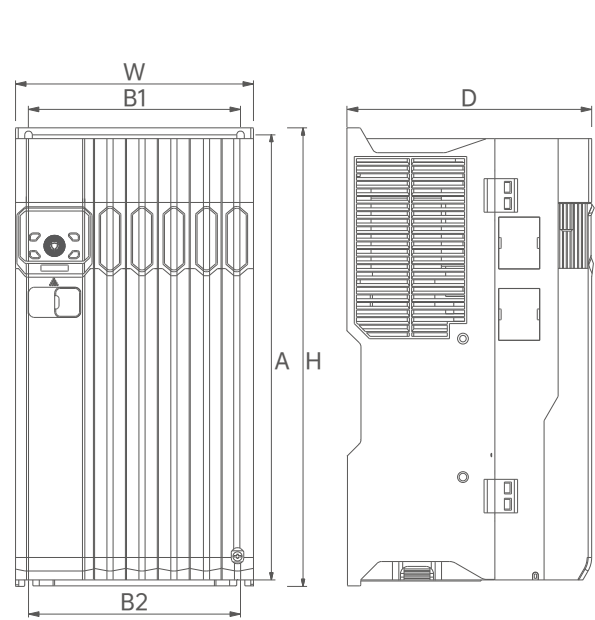


Enclosure E



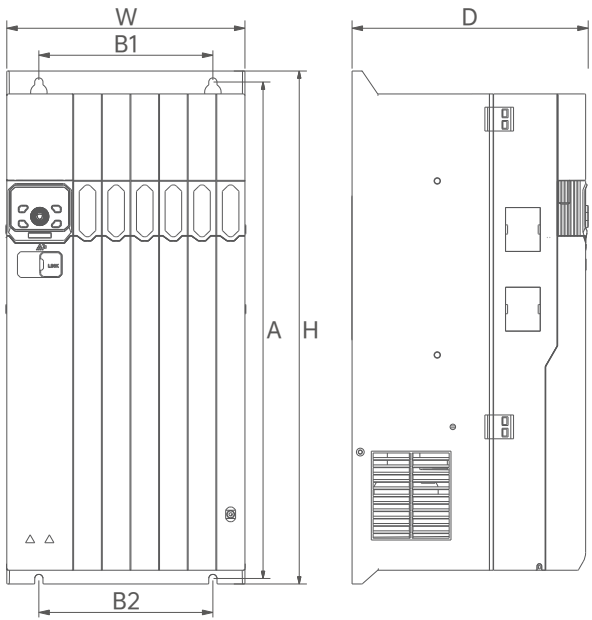
Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
D	MV820G1-2T5.5B	290	118	118	309.5	138	202.4	6
	MV820G1-2T7.5B							
	MV820G1-4T11B							
	MV820G1-4T15B							
E	MV820G1-4T18.5B	318	140	140	330	158	208.7	6
	MV820G1-4T22B							

Enclosure F

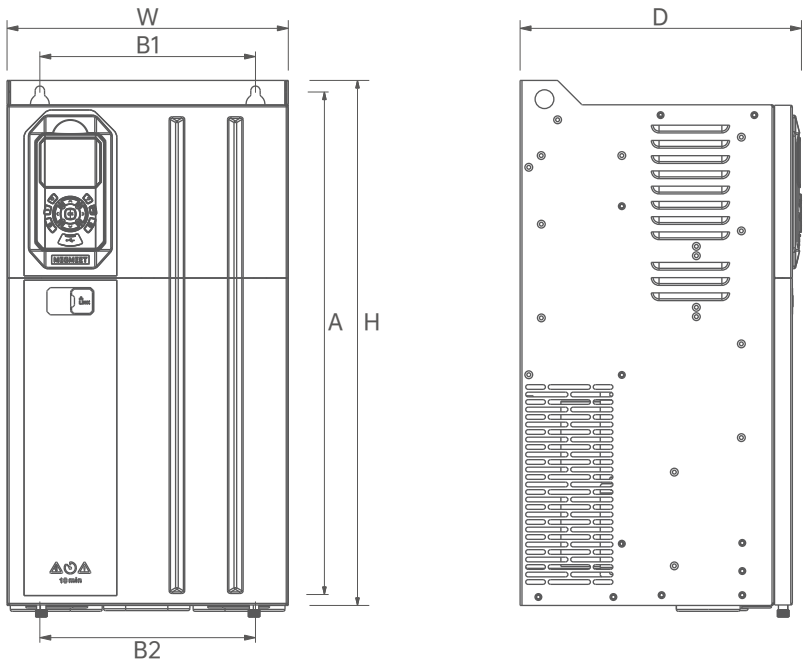


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
F	MV820G1-4T30B	412	196	196	424	220	236	7
	MV820G1-4T37B							
G	MV820G1-4T45B	542	190	190	560	260	262	9
	MV820G1-4T55B							
	MV820G1-4T75B							

Enclosure G

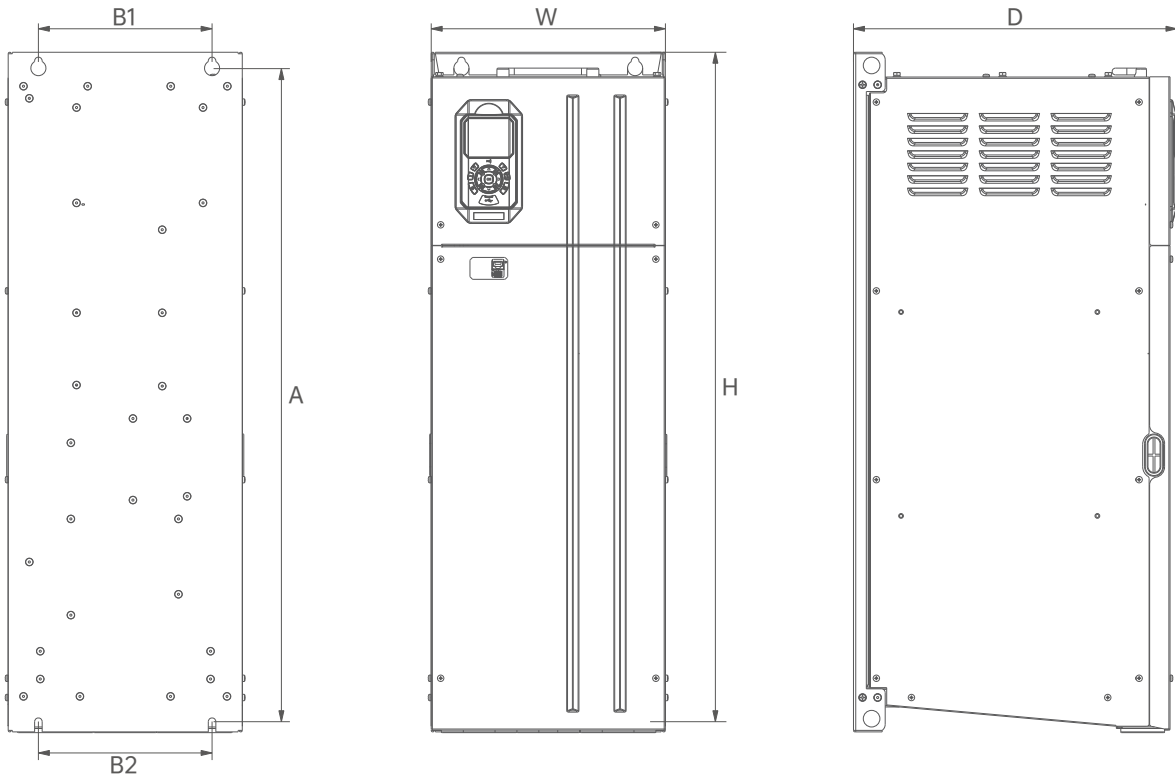


Enclosure H



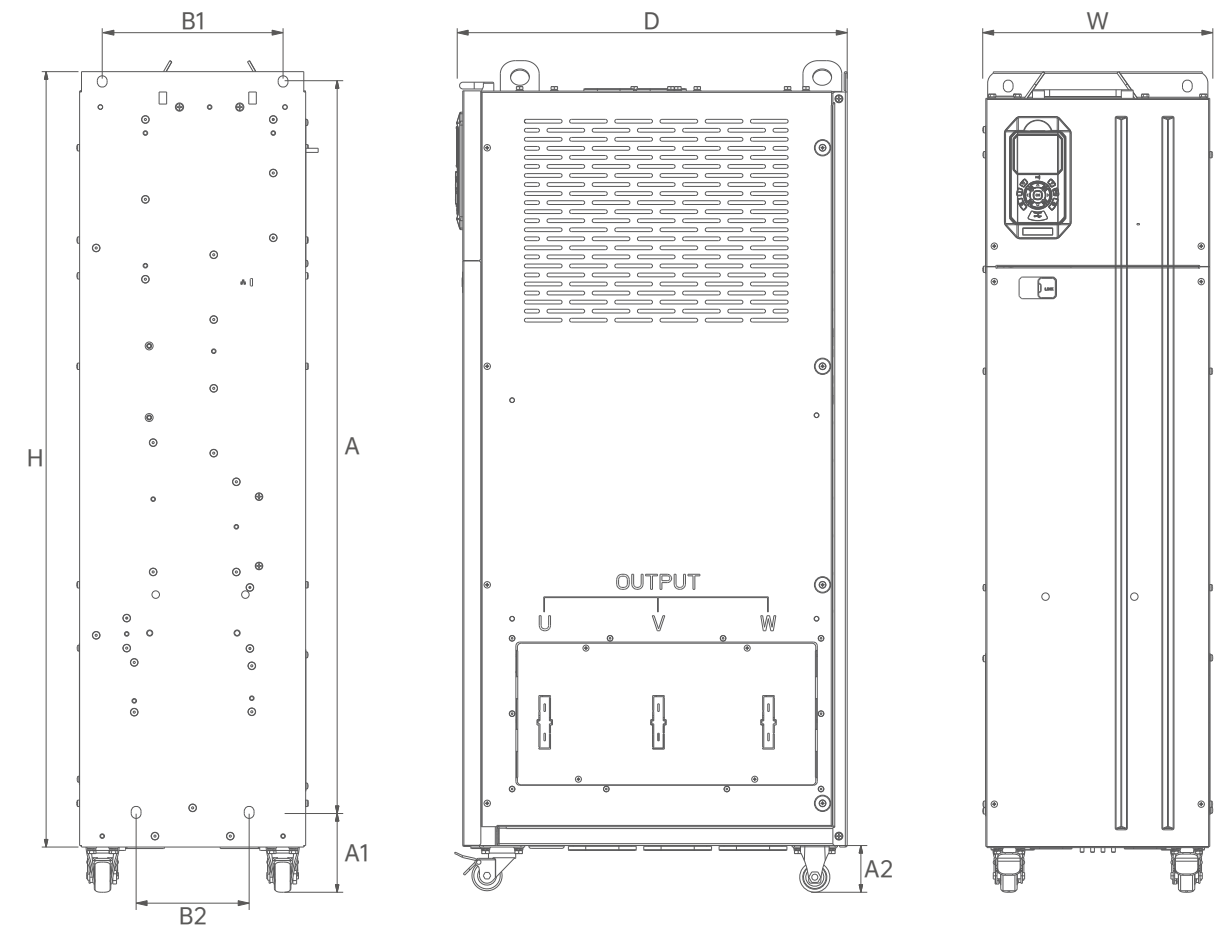
Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
H	MV820G1-4T90B	539	230	230	560	300	300	10
	MV820G1-4T110B							

Enclosure I



Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Diameter of mounting aperture (mm)
I	MV820G1-4T132T MV820G1-4T160T	875	230	230	900	310	429	10

Enclosure J



Enclosure model	Drive model	A (mm)	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)
J	MV820G1-4T185T MV820G1-4T200T MV820G1-4T220T	974.5	106	62	240	150	1039	300	520

Industrial Automation Solutions

