

MV800 Series

New Generation Platform Drive

MV810 | MV820 | MV830 | MV850



Power Solutions

- ☐ Telecom Power
- ☐ Medical Power
- ☐ Display Power
- ☐ Enclosed Power
- ☐ LED Power
- ☐ Laser Power
- ☐ OA Power
- ☐ Electric Power
- ☐ Datacenter and Networking Power Solutions
- ☐ Solar & BESS & EV Charging Solution
- ☐ Bi-directional Inverters for Portable Power

Industrial Automation

- ☐ 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

Consumer and Lifestyle Electronics

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

FOLLOW US

Q Megmeet



MEGMEET USA, Inc.

Addr. : 4040 Moorpark Avenue, Suite 221, San Jose, CA 95117

Version: 20260714

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

CONTENTS

01 About Us

About Us	01
----------	----

02 MV800 Platform

Product Introduction	02
Applications	03
Naming Rule	04
Product Features	05-14
Technical Specifications	15-16

03 MV810 Series

Overview	18
Technical Parameters	19
Standard Operation Wiring	20
Installation Dimensions	21-22

04 MV820 Series

Overview	24
Technical Parameters	25-26
Standard Operation Wiring	27-28
Installation Dimensions	29-34

About Us

MEGMEET is a \$1.3B global power and energy company specializing in high-efficiency power solutions for datacenters, e-Mobility, healthcare, industrial automation and renewable energy. With R&D, manufacturing facilities and global operations across North America, India, Thailand, China and Germany, MEGMEET is Engineered to Empower™ the future of AI, Industrial, and e-Mobility Markets.



\$1.3B USD

Revenue 2025



28%

Revenue CAGR
2015-2025



10

R&D Centers



8

Manufacturing
Centers



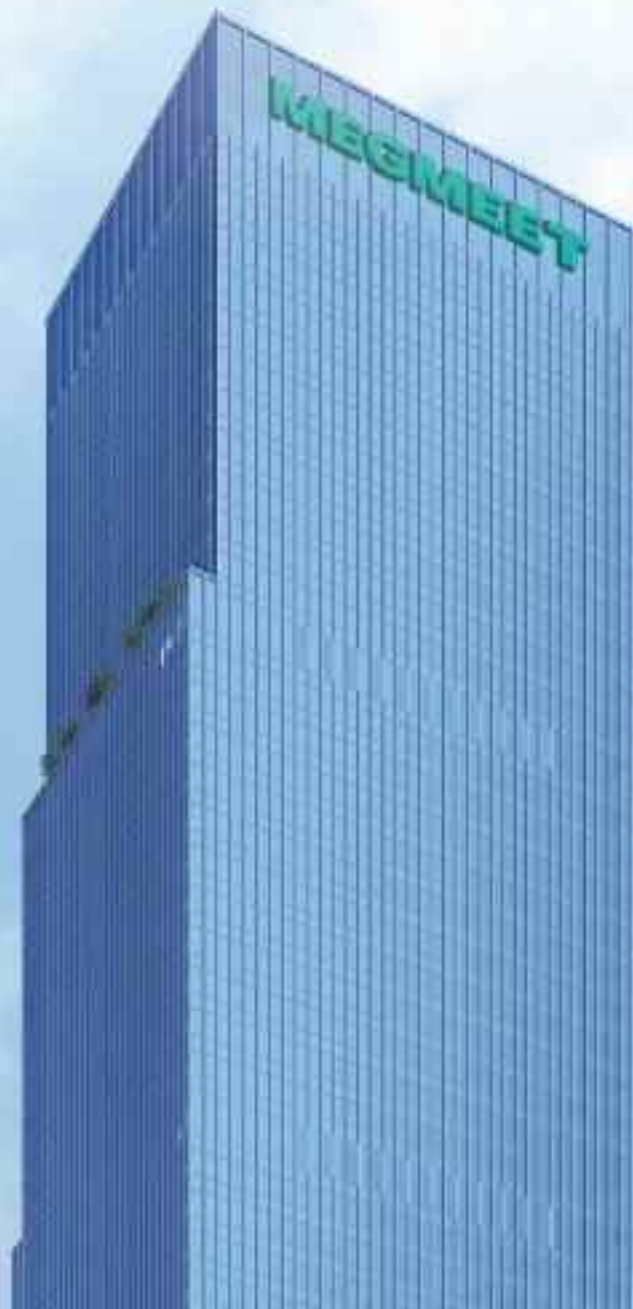
34%

R&D Staff



10K+

Total Employees



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 to 7.5 kW
- Three-phase 220 V: 2.2 to 37 kW
- Three-phase 380 V: 0.4 to 75 kW

MV820

- Single-phase 220 V: 0.4 to 7.5 kW
- Three-phase 220 V: 2.2 to 55 kW
- Three-phase 380 V: 0.4 to 400 kW

MV830

- Three-phase 380 V: 0.4 to 110 kW

MV850

- Three-phase 380 V: 0.4 to 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



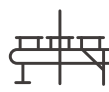
Mining



Fan



Textile printing and dyeing



Metalworking machinery



Plastics machinery



CNC machine tool



Naming 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
L: Lifting

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 400 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

10 Non-standard

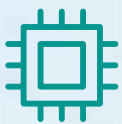
XXX: Customer number

8 Reactor

Null: Not included
T: DC reactor

MV800 Series Features

- New core hardware platform



New MCU
Processor



Optimized
motor control



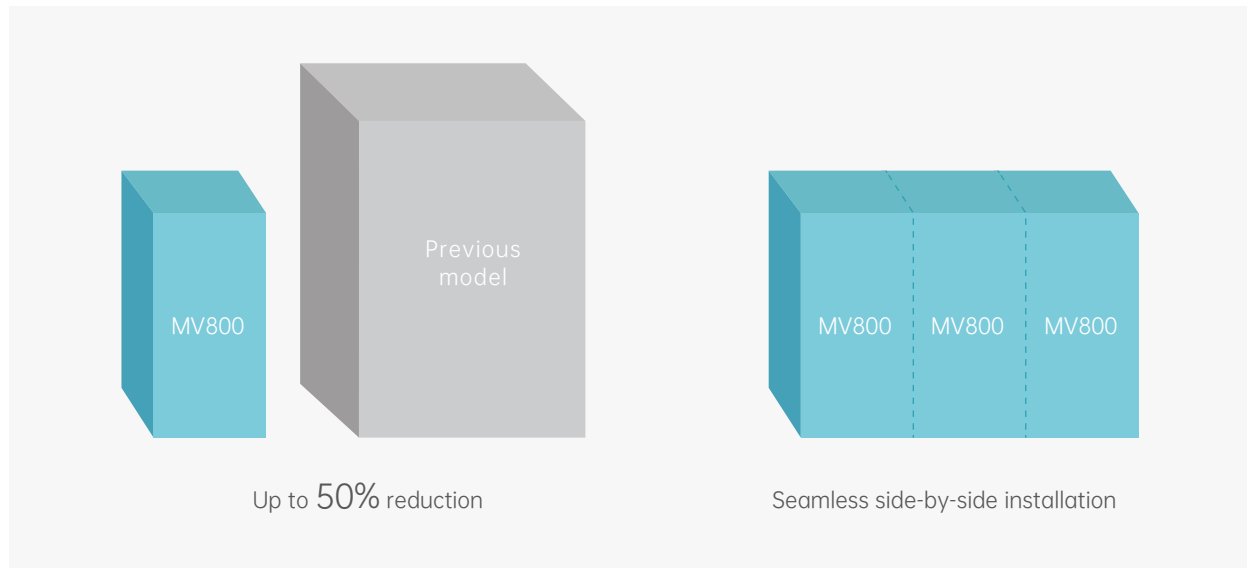
More extensive
function modules



Digital conversion of
input terminals

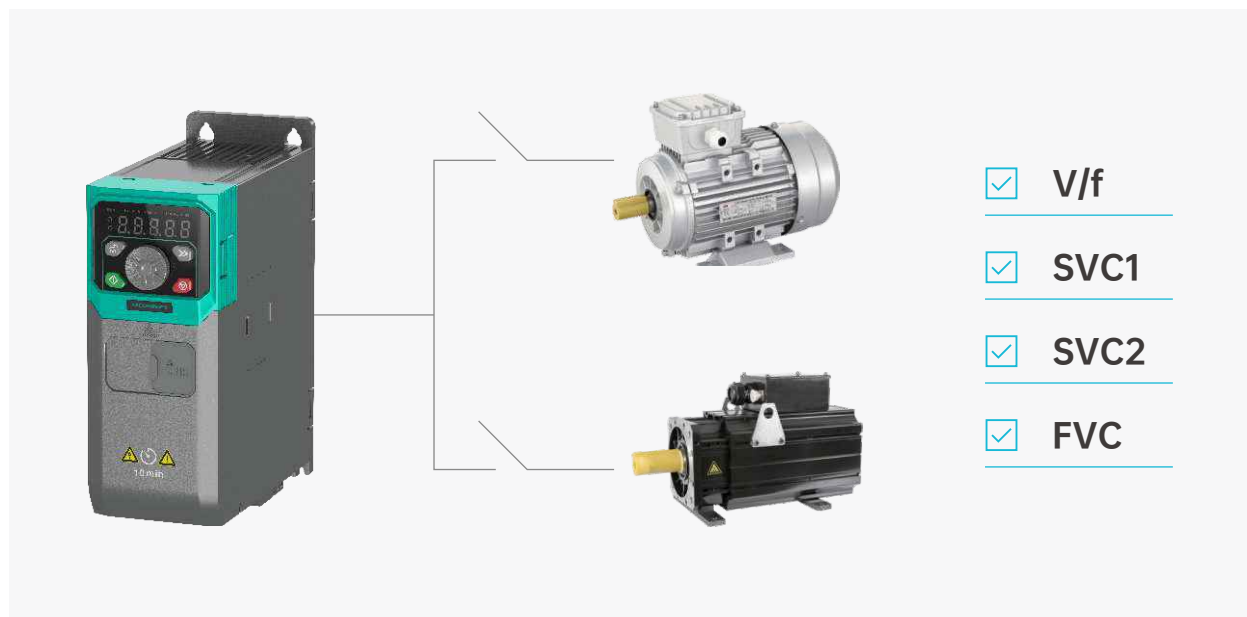
■ Minimized footprint & book-style installation

- 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)



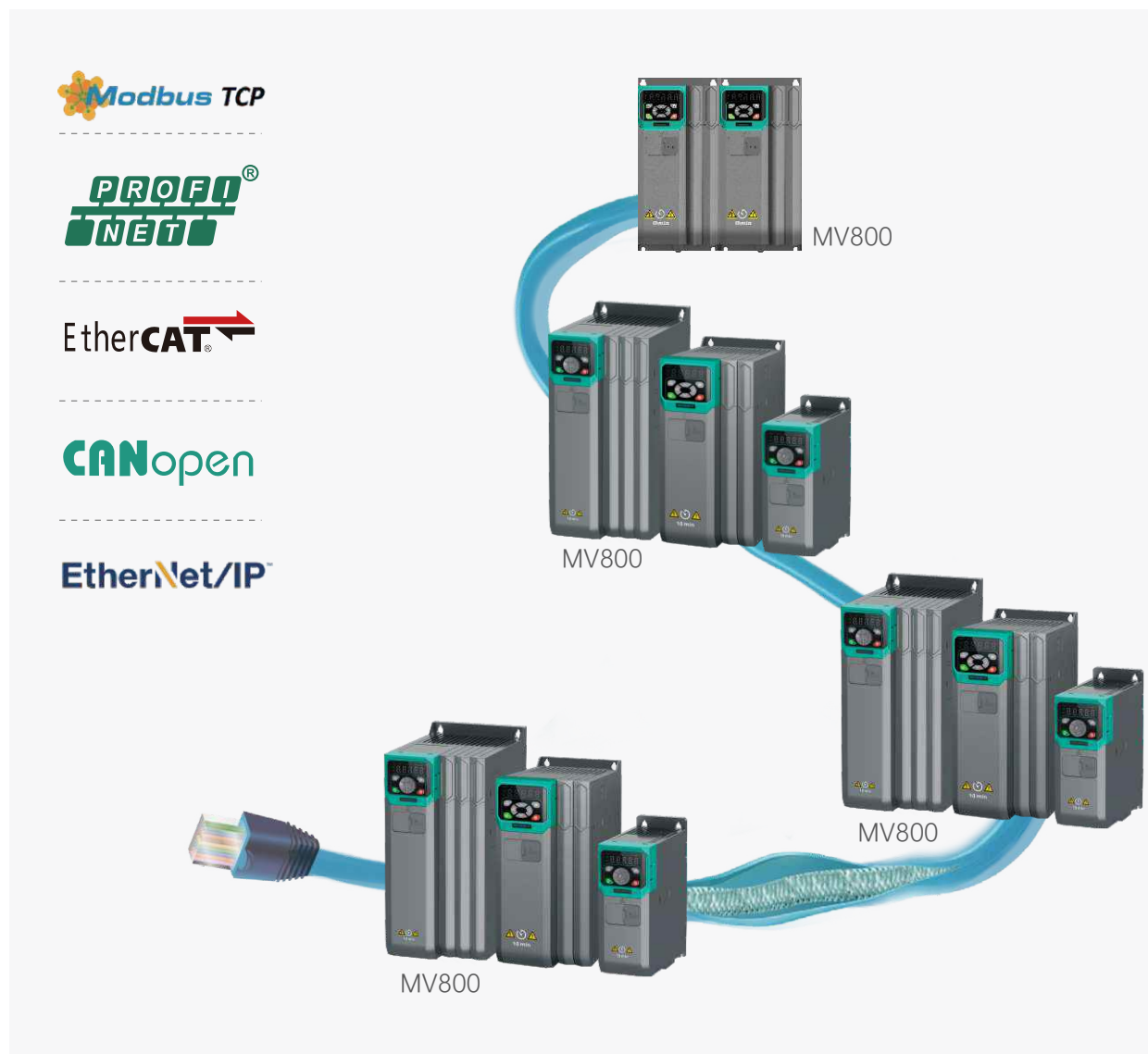
Encoders for MV800

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

Note: MV830 and MV850 are under development.

Flexible communication expansions

Modbus as standard configuration;
PROFINET, EtherCAT, CANopen, and Ethernet communication cards as options.



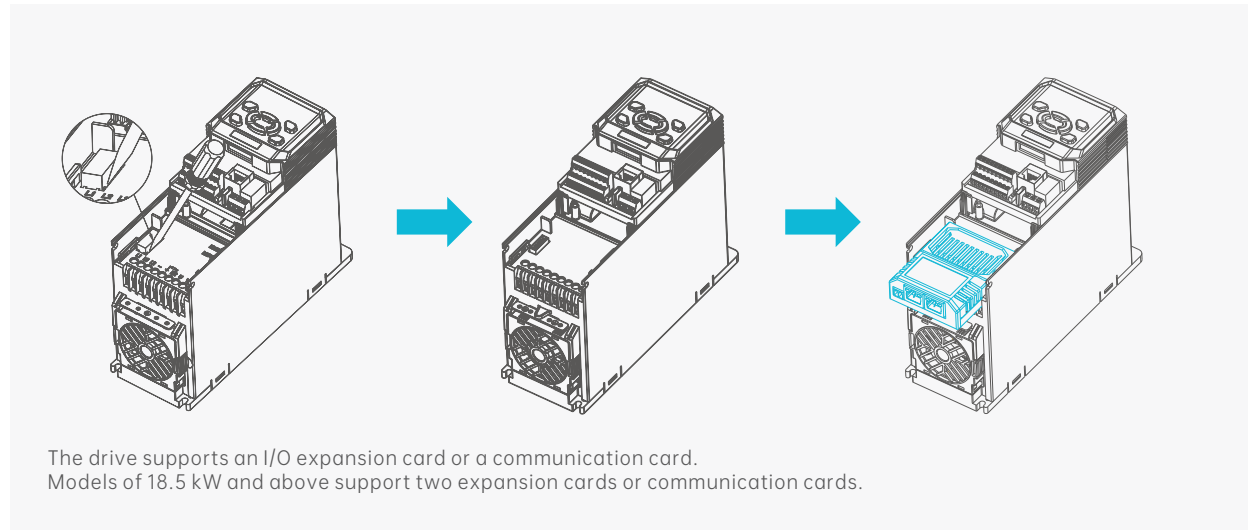
Bus types for MV800

Product series Bus type	MV810	MV820	MV830	MV850
PROFINET	✓	✓	✓	✓
EtherCAT	✓	✓	✓	✓
CANopen	✓	✓	✓	✓
Modbus TCP	✓	✓	✓	✓
Ethernet/IP	✓	✓	✓	✓

Note: MV830 and MV850 are under development.

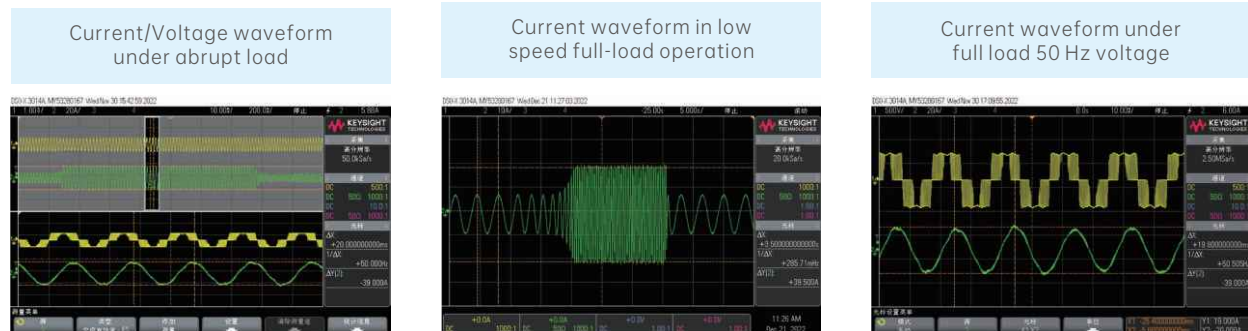
I/O expansions

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.



Note: MV830 and MV850 are under development.

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

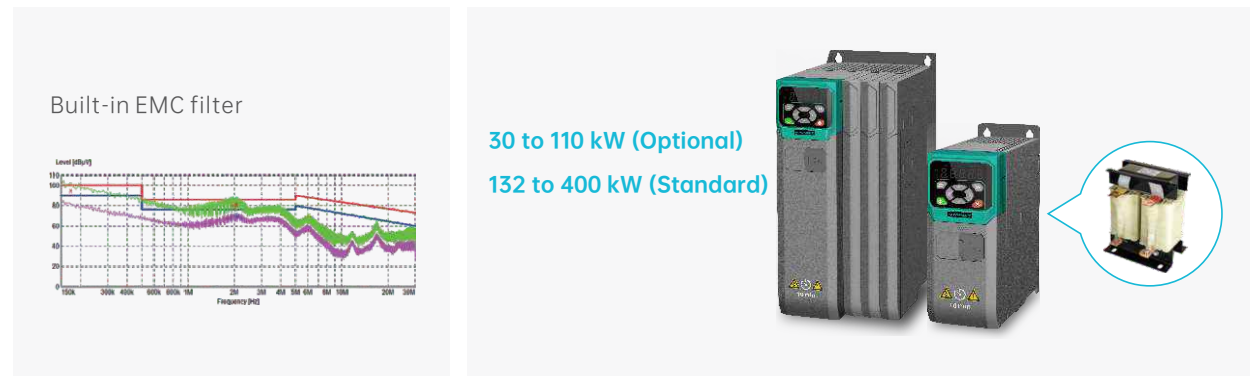


High stability, reliability, and adaptability



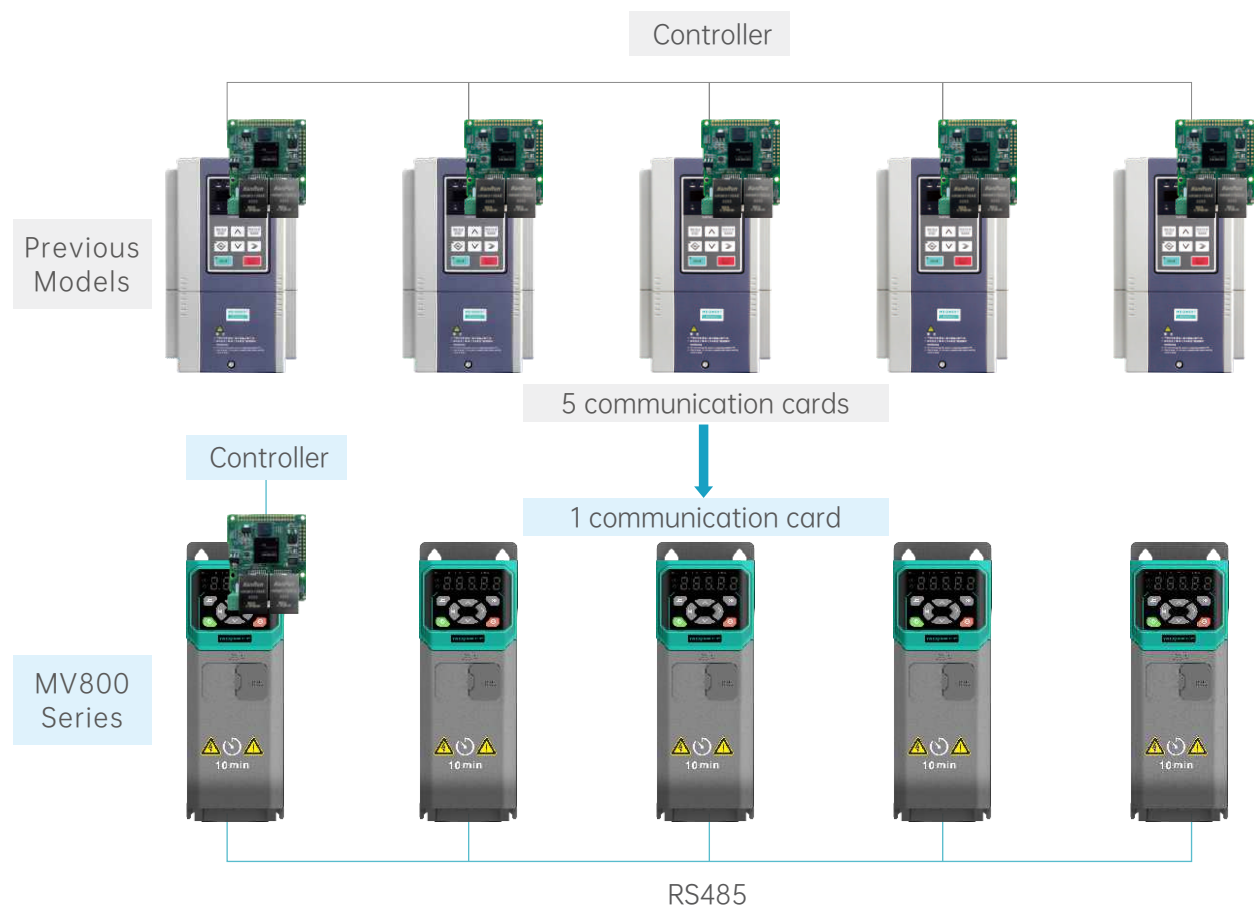
High electromagnetic compatibility

The entire series comes with a built-in EMC filter board. DCL is available for models of 30 kW 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/package industries.



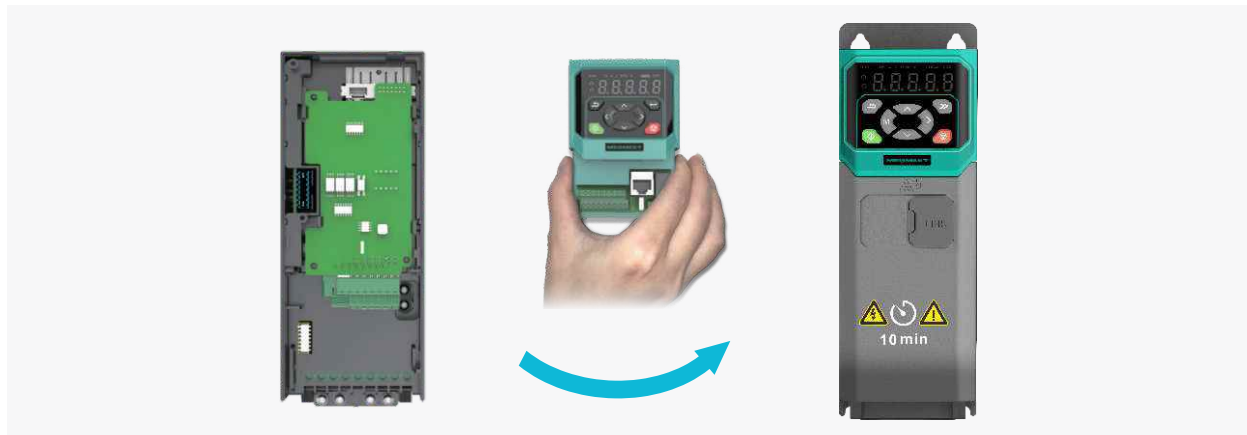
Quick response to faults

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

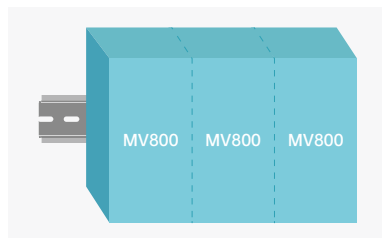


Easy to use

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

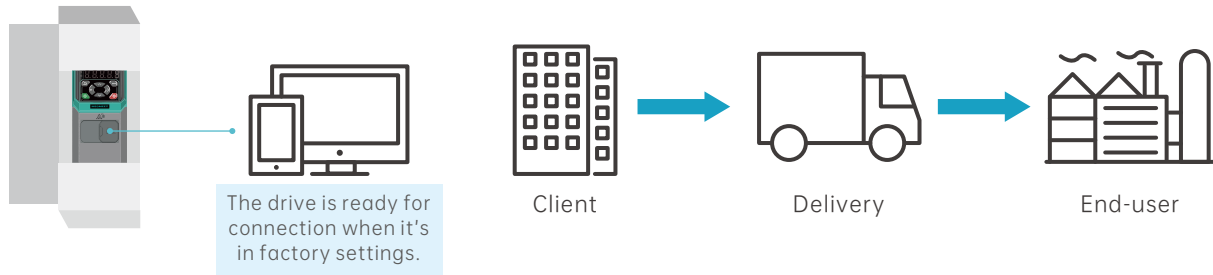


Keypad for subseries

Product series Keypad	MV810	MV820	MV830	MV850
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).

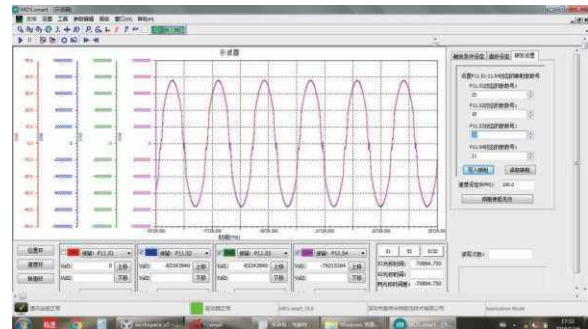
In case no main power is supplied, connect the drive to PC or mobile phones for parameter setting.



Host controller software



- Parameter upload/download
- User-friendly HMI

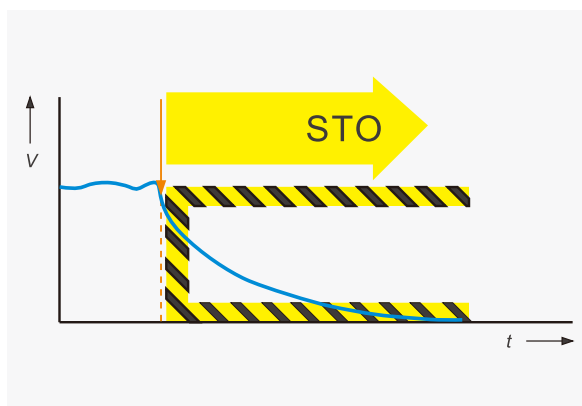


- Communication based on USB2.0
- 4-channel 32-bit real-time oscilloscope display; sampling frequency up to 16 K; multiple trigger modes

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

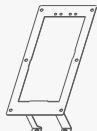
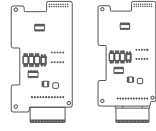
The drive provides an application-like function that supports NFC data exchange with mobile devices, further enhancing the convenience in use.

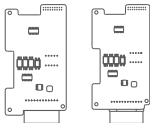
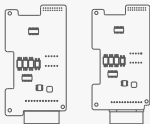
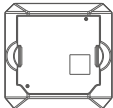
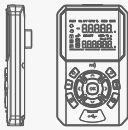
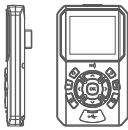
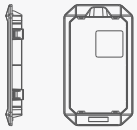
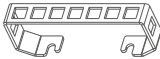


Others

- The entire series supports common DC bus.
- Standard built-in braking unit for models of 110 kW and below
- 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		Enclosure B	For embedded installation of drives, air duct protection, and independent heat dissipation
		MV810-EMBC		Enclosure C	
		MV810-EMBD		Enclosure D	
		MV810-EMBE		Enclosure E	
		MV810-EMBF		Enclosure F	
		MV810-EMBG		Enclosure G	
MV810-EMBH		Enclosure H			
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		Whole series	PROFINET protocol; 100 Mbps full duplex
		MV810-PNET02			
		MV810-PNET03			
	EtherCAT communication card	MV810-ECAT02		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		Enclosure B	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		Enclosure C/D/E/F/G	
	ABZ card with STO	MV810-PG11S		Enclosure B	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		Enclosure C/D/E/F/G	

Type	Name	Model	Diagram	Support model	Function
PG card	Resolver card	MV810-PG12		Enclosure B	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		Enclosure C/D/E/F/G	
	Resolver card with STO	MV810-PG12S		Enclosure B	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		Enclosure C/D/E/F/G	
	Differential pulse card	MV810-PG13		Enclosure B	The card supports 5 V ABZ signal input as the speed or position feedback, and the differential pulse command input
		MV810-PG23		Enclosure C/D/E/F/G	
IO card	I/O expansion	MV810-IO01		Whole series	Input expansion: DI9 to DI11 Output expansion: RO2 to RO3
	I/O expansion	MV810-IO02		Whole series	Input: DI9 to DI11 Analog input: AI3 Analog output: AO2
Other	PLC option	MV810-PLC		Whole series	Programmable multi-function expansion: 6 DIs, 4 DOs
Installation and maintenance	Small LED keypad	MV820-DP01		Whole series	Shuttle wheel, parameter copy function
	Small keypad mounting base	MV820-JPT01		Whole series	Used to mount the small LED keypad on the cabinet door
	Large LED keypad	MV820-DP03		Whole series	Dual-row LED display, parameter copy function
	Large LCD keypad	MV820-DP02		Whole series	LCD display
	Large keypad mounting base	MV820-JPT02		Whole series	Used to mount the MV820 large LED keypad or LCD keypad on the cabinet door
	Wire fixation bracket	MV810-FIXB		Enclosure B	Grounding of the shielded cable; wire fixation
		MV810-FIXC		Enclosure C	
		MV810-FIXD		Enclosure D	
	Guide rail bracket	MV-DIN3563		Enclosure 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 $\pm 10\%$, transient fluctuation -15% to +10%, that is, 187 V to 264 V; voltage unbalance rate $< 3\%$, distortion rate compliant with IEC 61800-2 4T models: three-phase 380 V to 480 V; voltage continuous fluctuation $\pm 10\%$, transient fluctuation -15% to +10%, that is, 323 V to 528 V; voltage unbalance rate $< 3\%$
Rated input current (A)	Please refer to "Technical Parameters"
Rated frequency (Hz)	50 Hz/60 Hz, fluctuation range ± 2 Hz
Output power	
Standard applicative motor (kW)	
Rated capacity (kVA)	Please refer to "Technical Parameters"
Rated current (A)	
Rated voltage (V)	Three-phase output under rated input conditions, 0 to rated input voltage, deviation less than $\pm 3\%$
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 (vector control without PG); 1: 1000 (vector control with PG)
Speed control precision	$\pm 0.5\%$ (vector control without PG); $\pm 0.02\%$ (vector control with PG)
Speed fluctuation	$\pm 0.3\%$ (vector control without PG); $\pm 0.1\%$ (vector control with PG)
Torque response	< 20 ms (vector control without PG); < 10 ms (vector control with PG)
Torque control	Torque control precision $\pm 5\%$ for vector control without PG (above 5 Hz for asynchronous motors; above 10 Hz for synchronous motors); torque control precision $\pm 3\%$ for vector with PG
Startup torque	0.25 Hz 150% (vector control without PG); 0 Hz 180% (vector control with PG)
Product functions	
Key functions	Fast tracking, overtorque/undertorque 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 switchover, 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	0.1 Hz to 599.0 Hz
Startup frequency	0.0 Hz to 50.0 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 and below: $\geq 93\%$; 15 kW and below: $\geq 95\%$
Installation method	Refer to "3.3 Installation direction and clearance" of the full electronic user manual.
IP rating	IP20
Cooling method	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 increase of 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/m ² ; air pressure: 70 to 106 kPa
Vibration	Sine vibration: 1.5 mm displacement for 2 to 9 Hz; 5.9 m/s ² (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 7.5 kW

Three-phase 220 V: 2.2 to 37 kW

Three-phase 380 V: 0.4 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

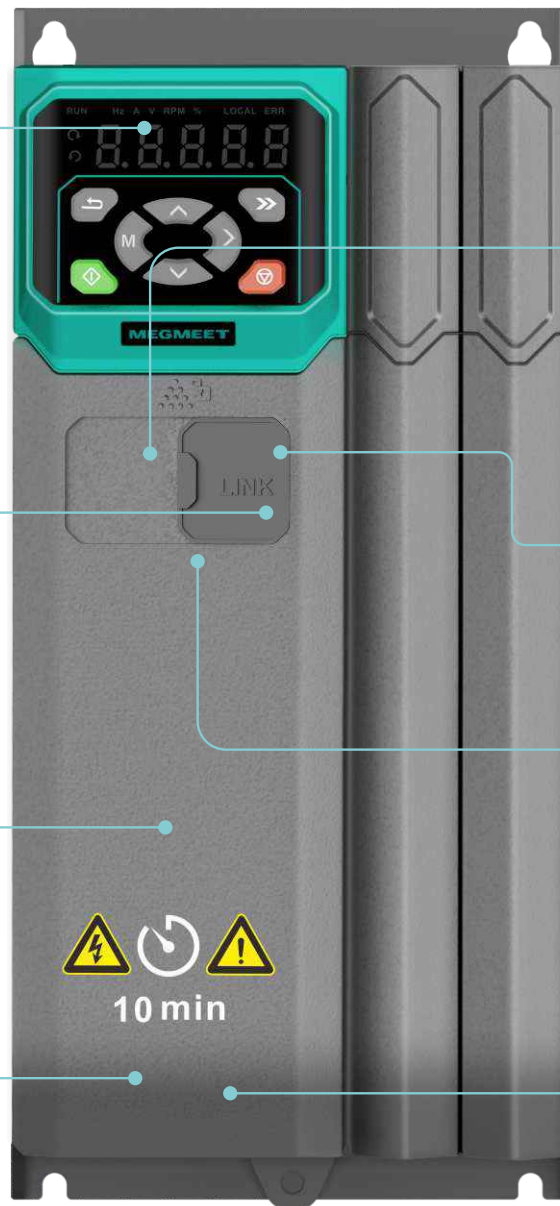
Lower cover plate

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



Options

- 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



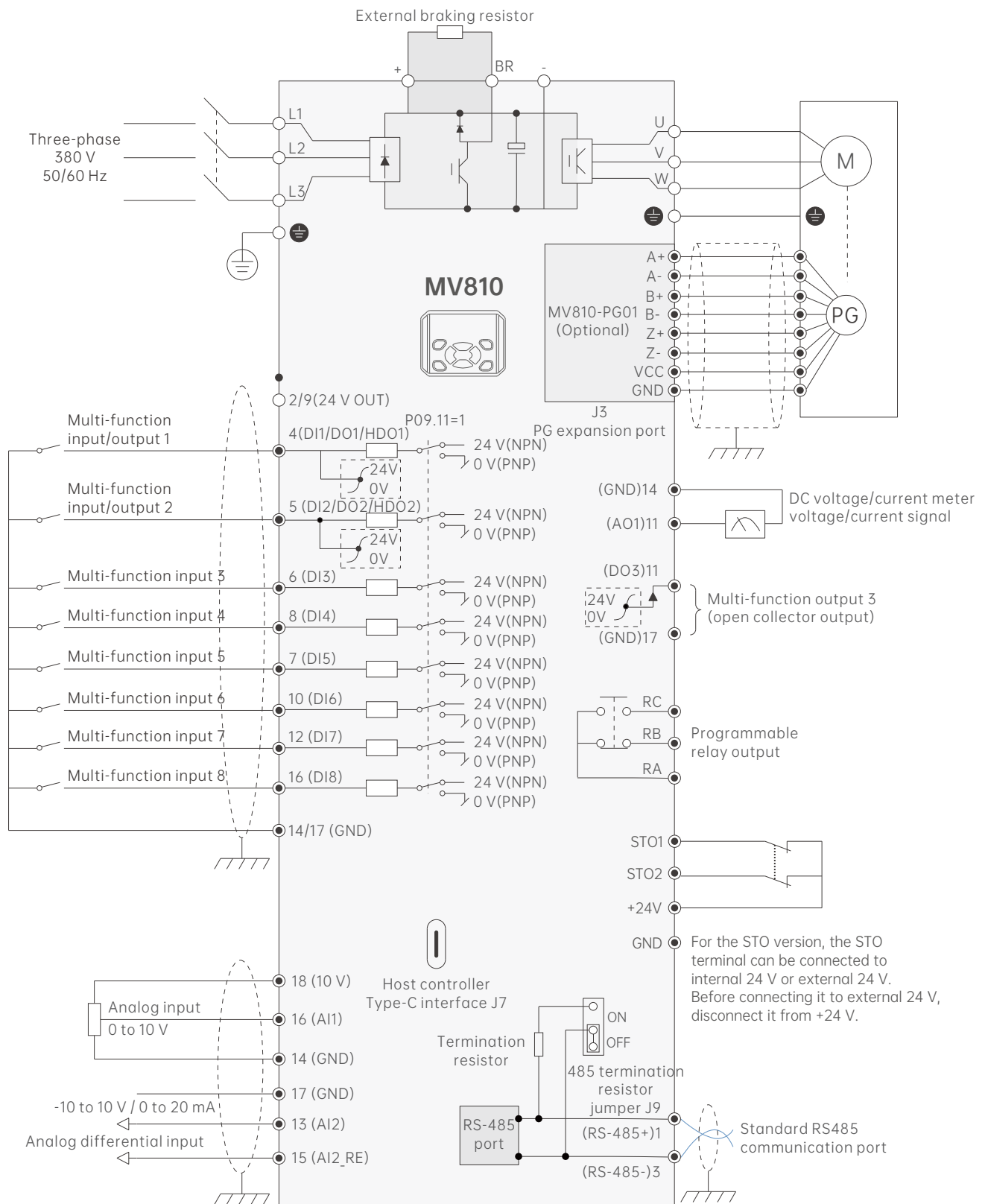
Cooling Fan

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

MV810 Technical Parameters

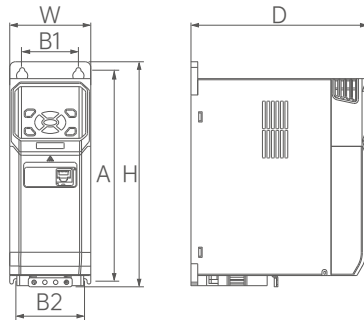
Enclosure	Product model	Rated input current (A)		Rated output current (A)		Rated output power (kW)		Fan's air volume (m³/min)
		HD	ND	HD	ND	HD	ND	
Single-phase power: 200 V AC to 240 V AC, 50 Hz / 60 Hz								
B	MV810G1-2S0.4B	5.5	/	2.4	/	0.4	/	0.4
	MV810G1-2S0.75B	8.5	/	4.2	/	0.75	/	0.4
	MV810G1-2S1.5B	15.0	/	7.5	/	1.5	/	0.48
	MV810G1-2S2.2B	19.8	/	9.4	/	2.2	/	0.48
C	MV810G1-2S3.7B	32.0	/	17.0	/	3.7	/	0.8
D	MV810G1-2S5.5B	50.0	/	25.0	/	5.5	/	1.8
E	MV810G1-2S7.5B	65.0	/	32.0	/	7.5	/	4.0
Three-phase power: 200 V AC to 240 V AC, 50 Hz / 60 Hz								
B	MV810G1-2T2.2B	13.0	/	9.4	/	2.2	/	0.4
C	MV810G1-2T3.7B	20.3	/	17.0	/	3.7	/	0.8
D	MV810G1-2T5.5B	32.0	/	25.0	/	5.5	/	1.8
	MV810G1-2T7.5B	41.0	/	32.0	/	7.5	/	1.8
E	MV810G1-2T11B	60.0	73.0	45.0	60.0	11.0	15.0	4.0
F	MV810G1-2T11BT	43.0	57.0	45.0	60.0	11.0	15.0	5.8
	MV810G1-2T15B	80.0	93.0	60.0	75.0	15.0	18.5	5.8
	MV810G1-2T15BT	57.0	71.0	60.0	75.0	15.0	18.5	5.8
	MV810G1-2T18.5B	97.0	106.0	75.0	90.0	18.5	22.0	5.8
	MV810G1-2T18.5BT	69.0	86.0	75.0	90.0	18.5	22.0	5.8
	MV810G1-2T22BT	89.0	111.0	90.0	110.0	22.0	30.0	5.8
G	MV810G1-2T30B	145.0	182.0	110.0	152.0	30.0	37.0	14.42
	MV810G1-2T30BT	107.0	145.0	110.0	152.0	30.0	37.0	14.42
	MV810G1-2T37B	182.0	209.0	150.0	176.0	37.0	45.0	14.42
	MV810G1-2T37BT	145.0	167.0	150.0	176.0	37.0	45.0	14.42
Three-phase power: 380 V AC to 480 V AC, 50 Hz / 60 Hz								
B	MV810G1-4T0.4B	1.8	/	1.5	/	0.4	/	No fan; natural cooling
	MV810G1-4T0.75B	3.5	/	2.7	/	0.75	/	
	MV810G1-4T1.5B	5.1	/	4.2	/	1.5	/	
	MV810G1-4T2.2B	6.8	/	5.6	/	2.2	/	
	MV810G1-4T3.7B	11.8	/	9.4	/	3.7	/	
C	MV810G1-4T5.5B	15.5		13.0		5.5		0.8
	MV810G1-4T7.5B	23.0	/	17.0	/	7.5	/	0.8
D	MV810G1-4T11B	32.0	/	25.0	/	11.0	/	1.8
	MV810G1-4T15B	41.0	/	32.0	/	15.0	/	1.8
E	MV810G1-4T18.5B	49.0	58.0	38.0	45.0	18.5	22.0	4.0
	MV810G1-4T22B	58.0	80.0	45.0	60.0	22.0	30.0	4.0
F	MV810G1-4T22BT	44.0	59.0	45.0	60.0	22.0	30.0	5.8
	MV810G1-4T30B	73.0	93.0	60.0	75.0	30.0	37.0	5.8
	MV810G1-4T30BT	58.0	72.0	60.0	75.0	30.0	37.0	5.8
	MV810G1-4T37B	93.0	109.0	75.0	90.0	37.0	45.0	5.8
	MV810G1-4T37BT	70.0	87.0	75.0	90.0	37.0	45.0	5.8
G	MV810G1-4T45B	109.0	132.0	90.0	110.0	45.0	55.0	14.42
	MV810G1-4T45BT	90.0	110.0	90.0	110.0	45.0	55.0	14.42
	MV810G1-4T55B	135.0	180.0	110.0	152.0	55.0	75.0	14.42
	MV810G1-4T55BT	108.0	147.0	110.0	152.0	55.0	75.0	14.42
	MV810G1-4T75B	186.0	207.0	150.0	176.0	75.0	90.0	14.42
	MV810G1-4T75BT	147.0	171.0	150.0	176.0	75.0	90.0	14.42

Standard Operation Wiring

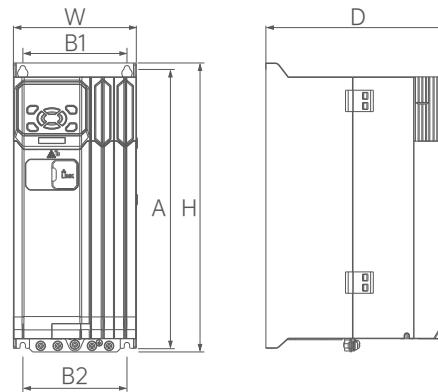


MV810 Installation Dimensions

Enclosure B

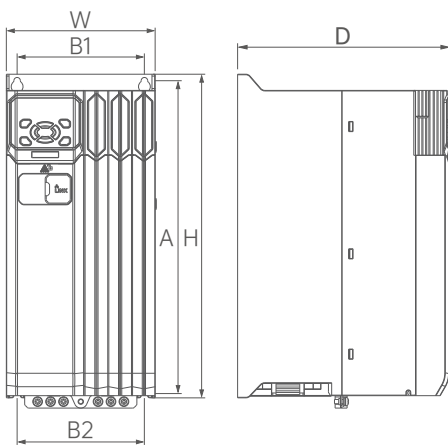


Enclosure C

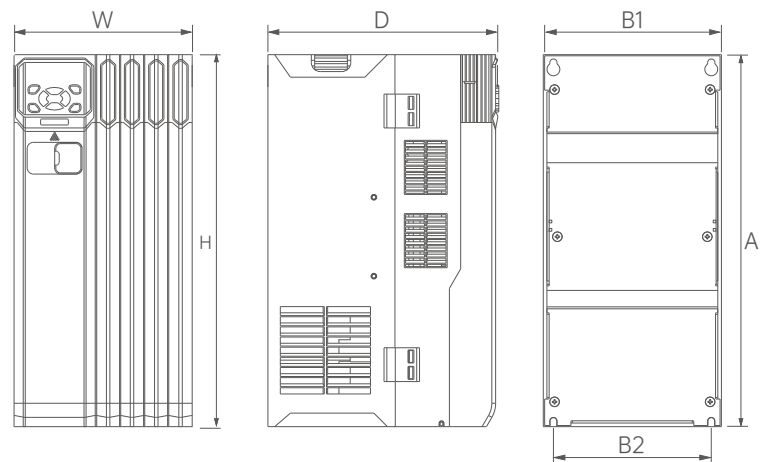


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter(mm)
B	MV810G1-2S0.4B MV810G1-2S0.75B MV810G1-2S1.5B MV810G1-2S2.2B MV810G1-4T0.4B MV810G1-4T0.75B MV810G1-4T1.5B MV810G1-4T2.2B MV810G1-4T3.7B	187.5	50	61	200	72	158.3	4.5
C	MV810G1-2S3.7B MV810G1-2T3.7B MV810G1-4T5.5B MV810G1-4T7.5B	259	97.5	97.5	270.4	115	172.2	5

Enclosure D

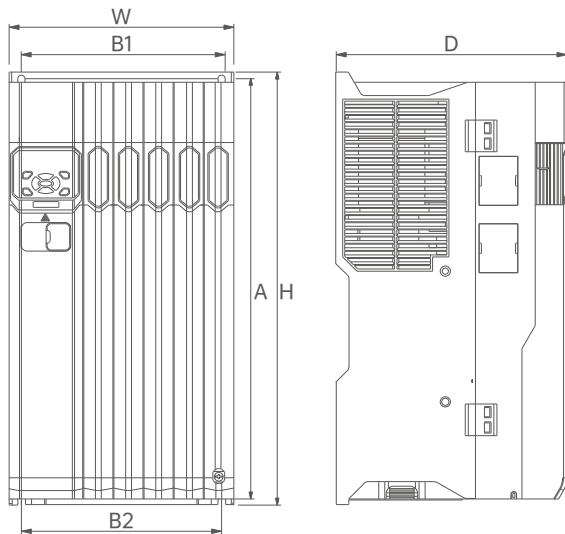


Enclosure E

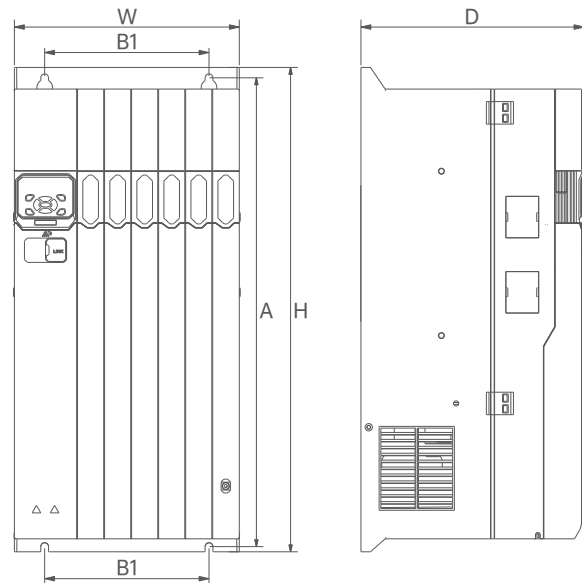


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
D	MV810G1-2S5.5B MV810G1-2T5.5B MV810G1-2T7.5B MV810G1-4T11B MV810G1-4T15B	290	118	118	309.5	138	198.8	6
E	MV810G1-2S7.5B MV810G1-2T11B MV810G1-4T18.5B MV810G1-4T22B	318	140	140	330	158	204.8	6

Enclosure F



Enclosure G



Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
F	MV810G1-2T11BT MV810G1-2T15B MV810G1-2T15BT MV810G1-2T18.5B MV810G1-2T18.5BT MV810G1-2T22BT MV810G1-4T22BT MV810G1-4T30B MV810G1-4T30BT MV810G1-4T37B MV810G1-4T37BT	412	196	196	424	220	229	7
G	MV810G1-2T30B MV810G1-2T30BT MV810G1-2T37B MV810G1-2T37BT MV810G1-4T45B MV810G1-4T45BT MV810G1-4T55B MV810G1-4T55BT MV810G1-4T75B MV810G1-4T75BT	542	190	190	560	260	257.8	9

MV820 High-Performance Vector Control Drive

Single-phase 220 V: 0.4 to 7.5 kW

Three-phase 220 V: 2.2 to 55 kW

Three-phase 380 V: 0.4 to 400 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

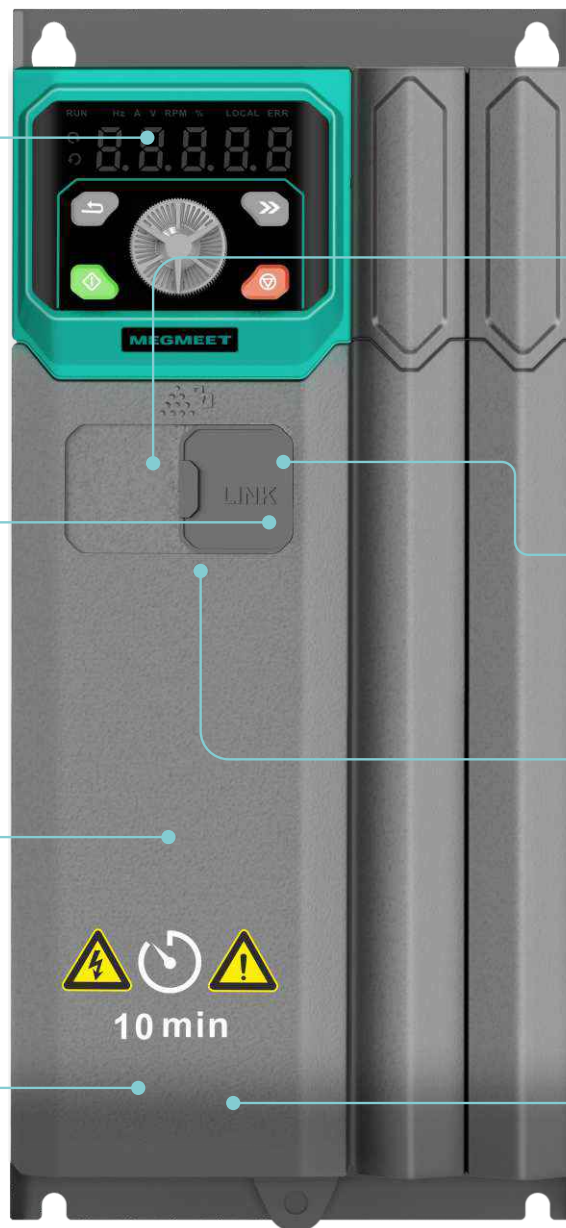
Lower cover plate

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



Options

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

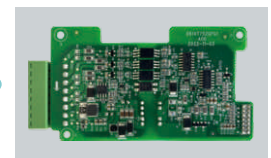


Multi-function terminals

- 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

MV820 Technical Parameters

Enclosure	Product model	Rated input current (A)		Rated output current (A)		Rated output power (kW)		Fan's air volume (m³/min)
		HD	ND	HD	ND	HD	ND	
Single-phase power: 200 V AC to 240 V AC, 50 Hz / 60 Hz								
B	MV820G1-2S0.4B	5.5	/	2.4	/	0.4	/	0.4
	MV820G1-2S0.75B	8.5	/	4.2	/	0.75	/	0.4
	MV820G1-2S1.5B	15.0	/	7.5	/	1.5	/	0.48
	MV820G1-2S2.2B	19.8	/	9.4	/	2.2	/	0.48
C	MV820G1-2S3.7B	32.0	/	17.0	/	3.7	/	0.8
D	MV820G1-2S5.5B	50.0	/	25.0	/	5.5	/	1.8
E	MV820G1-2S7.5B	65.0	/	32.0	/	7.5	/	4.0
Three-phase power: 200 V AC to 240 V AC, 50 Hz / 60 Hz								
B	MV820G1-2T2.2B	13.0	/	9.4	/	2.2	/	0.4
C	MV820G1-2T3.7B	20.3	/	17.0	/	3.7	/	0.8
D	MV820G1-2T5.5B	32.0	/	25.0	/	5.5	/	1.8
	MV820G1-2T7.5B	41.0	/	32.0	/	7.5	/	1.8
E	MV820G1-2T11B	60.0	73.0	45.0	60.0	11.0	15.0	4.0
F	MV820G1-2T11BT	43.0	57.0	45.0	60.0	11.0	15.0	5.8
	MV820G1-2T15B	80.0	93.0	60.0	75.0	15.0	18.5	5.8
	MV820G1-2T15BT	57.0	71.0	60.0	75.0	15.0	18.5	5.8
	MV820G1-2T18.5B	97.0	106.0	75.0	90.0	18.5	22.0	5.8
	MV820G1-2T18.5BT	69.0	86.0	75.0	90.0	18.5	22.0	5.8
	MV820G1-2T22BT	89.0	111.0	90.0	110.0	22.0	30.0	5.8
G	MV820G1-2T30B	145.0	182.0	110.0	152.0	30.0	37.0	14.42
	MV820G1-2T30BT	107.0	145.0	110.0	152.0	30.0	37.0	14.42
	MV820G1-2T37B	182.0	209.0	150.0	176.0	37.0	45.0	14.42
	MV820G1-2T37BT	145.0	167.0	150.0	176.0	37.0	45.0	14.42
H	MV820G1-2T45BS	217.0	252.0	176.0	210.0	45.0	55.0	14.42
	MV820G1-2T45BTS	167.0	198.0	176.0	210.0	45.0	55.0	14.42
	MV820G1-2T55BS	260.0	297.0	210.0	250.0	55.0	75.0	14.42
	MV820G1-2T55BTS	198.0	239.0	210.0	250.0	55.0	75.0	14.42
Three-phase power: 380 V AC to 480 V AC, 50 Hz / 60 Hz								
B	MV820G1-4T0.4B	1.8	/	1.5	/	0.4	/	No fan; natural cooling
	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	6.8	/	5.6	/	2.2	/	0.48
	MV820G1-4T3.7B	11.8	/	9.4	/	3.7	/	0.48
C	MV820G1-4T5.5B	15.5	/	13.0	/	5.5	/	0.8
	MV820G1-4T7.5B	23.0	/	17.0	/	7.5	/	0.8
D	MV820G1-4T11B	32.0	/	25.0	/	11.0	/	1.8
	MV820G1-4T15B	41.0	/	32.0	/	15.0	/	1.8
E	MV820G1-4T18.5B	49.0	58.0	38.0	45.0	18.5	22.0	4.0
	MV820G1-4T22B	58.0	80.0	45.0	60.0	22.0	30.0	4.0

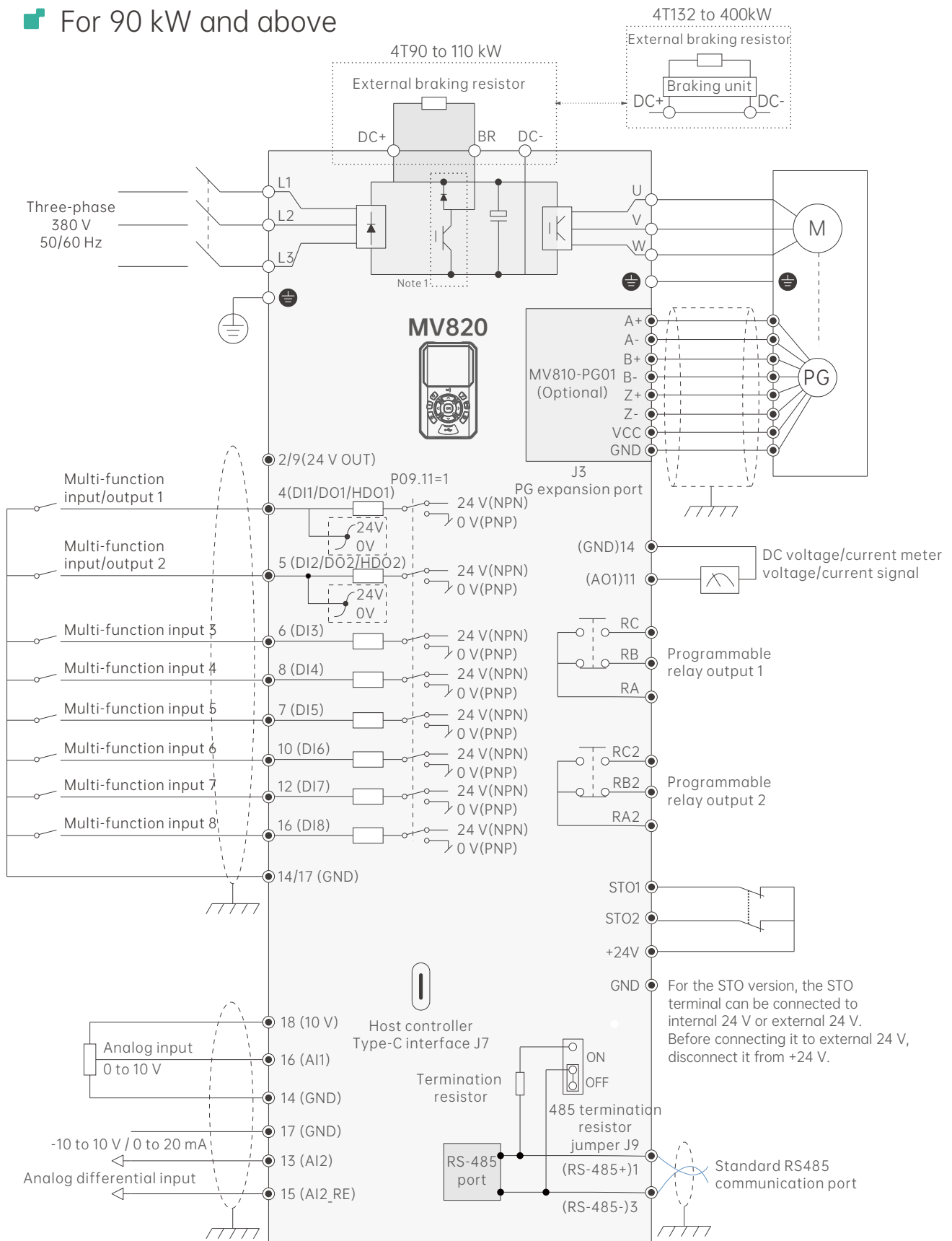
MV820 Technical Parameters

Enclosure	Product model	Rated input current (A)		Rated output current (A)		Rated output power (kW)		Fan's air volume (m³/min)
		HD	ND	HD	ND	HD	ND	
Three-phase power: 380 V AC to 480 V AC, 50 Hz / 60 Hz								
F	MV820G1-4T22BT	44.0	59.0	45.0	60.0	22.0	30.0	5.8
	MV820G1-4T30B	73.0	93.0	60.0	75.0	30.0	37.0	5.8
	MV820G1-4T30BT	58.0	72.0	60.0	75.0	30.0	37.0	5.8
	MV820G1-4T37B	93.0	109.0	75.0	90.0	37.0	45.0	5.8
	MV820G1-4T37BT	70.0	87.0	75.0	90.0	37.0	45.0	5.8
G	MV820G1-4T45B	109.0	132.0	90.0	110.0	45.0	55.0	14.42
	MV820G1-4T45BT	90.0	110.0	90.0	110.0	45.0	55.0	14.42
	MV820G1-4T55B	135.0	180.0	110.0	152.0	55.0	75.0	14.42
	MV820G1-4T55BT	108.0	147.0	110.0	152.0	55.0	75.0	14.42
	MV820G1-4T75B	186.0	207.0	150.0	176.0	75.0	90.0	14.42
	MV820G1-4T75BT	147.0	171.0	150.0	176.0	75.0	90.0	14.42
H	MV820G1-4T90BS	212.0	244.0	176.0	210.0	90.0	110.0	14.42
	MV820G1-4T90BTS	166.0	201.0	176.0	210.0	90.0	110.0	14.42
	MV820G1-4T110BS	249.0	291.0	210.0	253.0	110.0	132.0	14.42
	MV820G1-4T110BTS	198.0	242.0	210.0	253.0	110.0	132.0	14.42
I	MV820G1-4T132TS	242.0	296.0	253.0	304.0	132.0	160.0	21.48
	MV820G1-4T160TS	293.0	330.0	304.0	340.0	160.0	185.0	21.48
J	MV820G1-4T185TS	330.0	368.0	340.0	380.0	185.0	200.0	21.48
	MV820G1-4T200TS	368.0	410.0	380.0	426.0	200.0	220.0	21.48
	MV820G1-4T220TS	410.0	440.0	426.0	465.0	220.0	250.0	21.48
K	MV820G1-4T250TS	442.0	496.0	465.0	520.0	250.0	280.0	27.19
	MV820G1-4T280TS	496.0	563.0	520.0	585.0	280.0	315.0	27.19
L	MV820G1-4T315TS	560.0	625.0	585.0	650.0	315.0	355.0	36.60
	MV820G1-4T355TS	617.0	715.0	650.0	725.0	355.0	400.0	36.60
	MV820G1-4T400TS	687.0	795.0	725.0	810.0	400.0	450.0	36.60

- For 75 kW and below



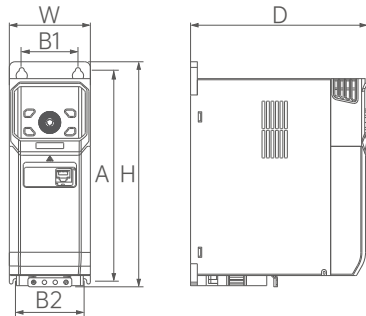
■ For 90 kW and above



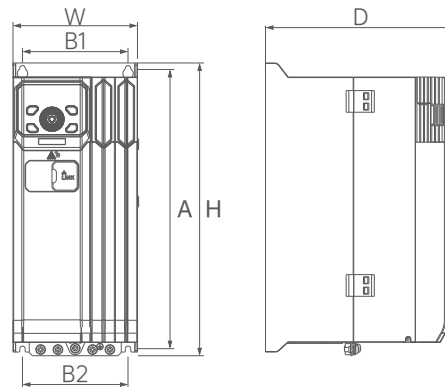
Note 1: For 132 kW and above, built-in braking unit is not included as standard.

MV820 Installation Dimensions

Enclosure B

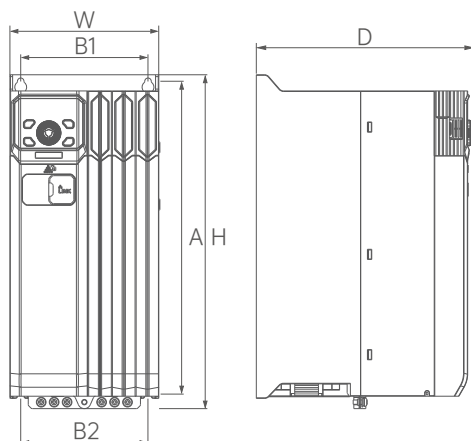


Enclosure C

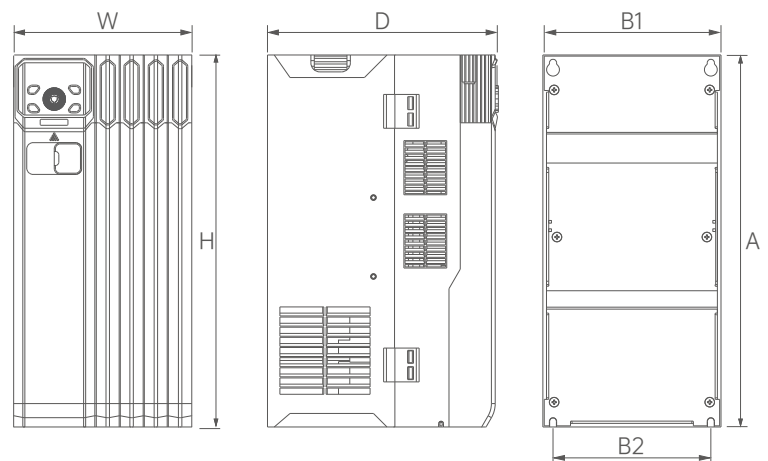


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
B	MV820G1-2S0.4B MV820G1-2S0.75B MV820G1-2S1.5B MV820G1-2S2.2B MV820G1-4T0.4B MV820G1-4T0.75B MV820G1-4T1.5B MV820G1-4T2.2B MV820G1-4T3.7B	187.5	50	61	200	72	162.5	4.5
C	MV820G1-2S3.7B MV820G1-2T3.7B MV820G1-4T5.5B MV820G1-4T7.5B	259	97.5	97.5	270.4	115	176.4	5

Enclosure D

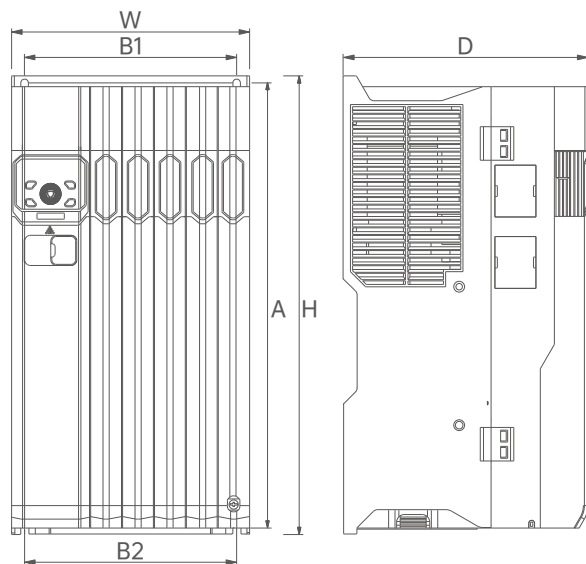


Enclosure E

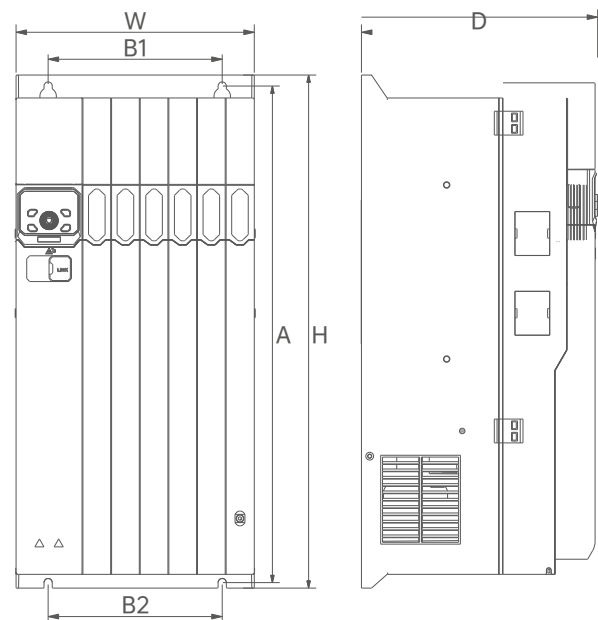


Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
D	MV820G1-2S5.5B MV820G1-2T5.5B MV820G1-2T7.5B MV820G1-4T11B MV820G1-4T15B	290	118	118	309.5	138	203	6
E	MV820G1-2S7.5B MV820G1-2T11B MV820G1-4T18.5B MV820G1-4T22B	318	140	140	330	158	209	6

Enclosure F

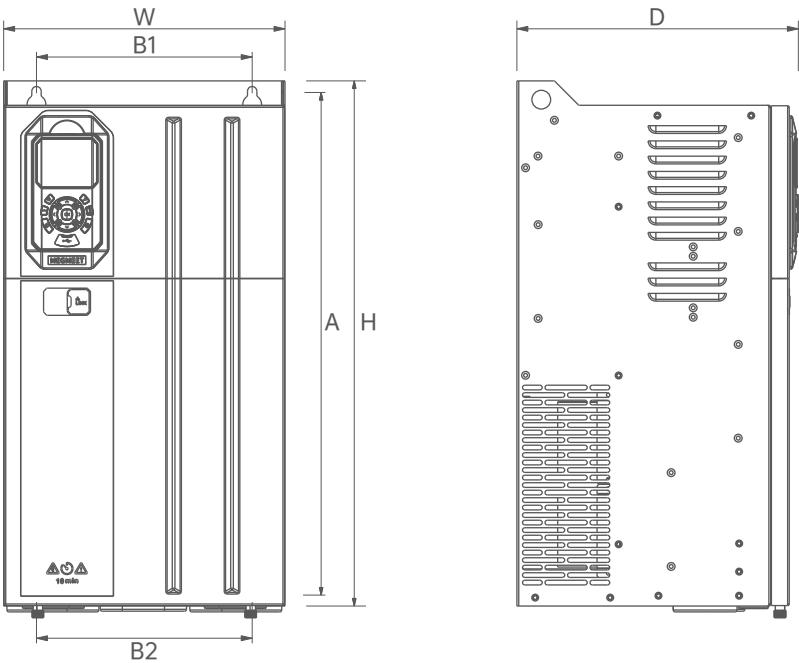


Enclosure G



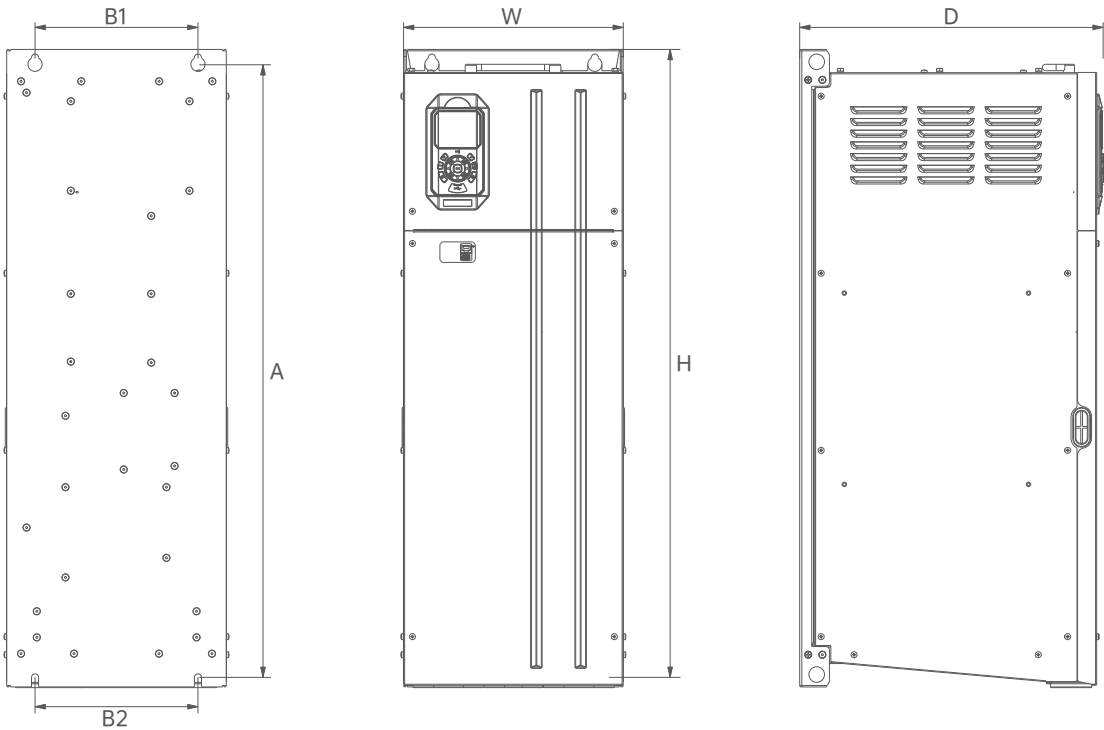
Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
F	MV820G1-2T11BT MV820G1-2T15B MV820G1-2T15BT MV820G1-2T18.5B MV820G1-2T18.5BT MV820G1-2T22BT MV820G1-4T22BT MV820G1-4T30B MV820G1-4T30BT MV820G1-4T37B MV820G1-4T37BT	412	196	196	424	220	233.2	7
G	MV820G1-2T30B MV820G1-2T30BT MV820G1-2T37B MV820G1-2T37BT MV820G1-4T45B MV820G1-4T45BT MV820G1-4T55B MV820G1-4T55BT MV820G1-4T75B MV820G1-4T75BT	542	190	190	560	260	262	9

Enclosure H



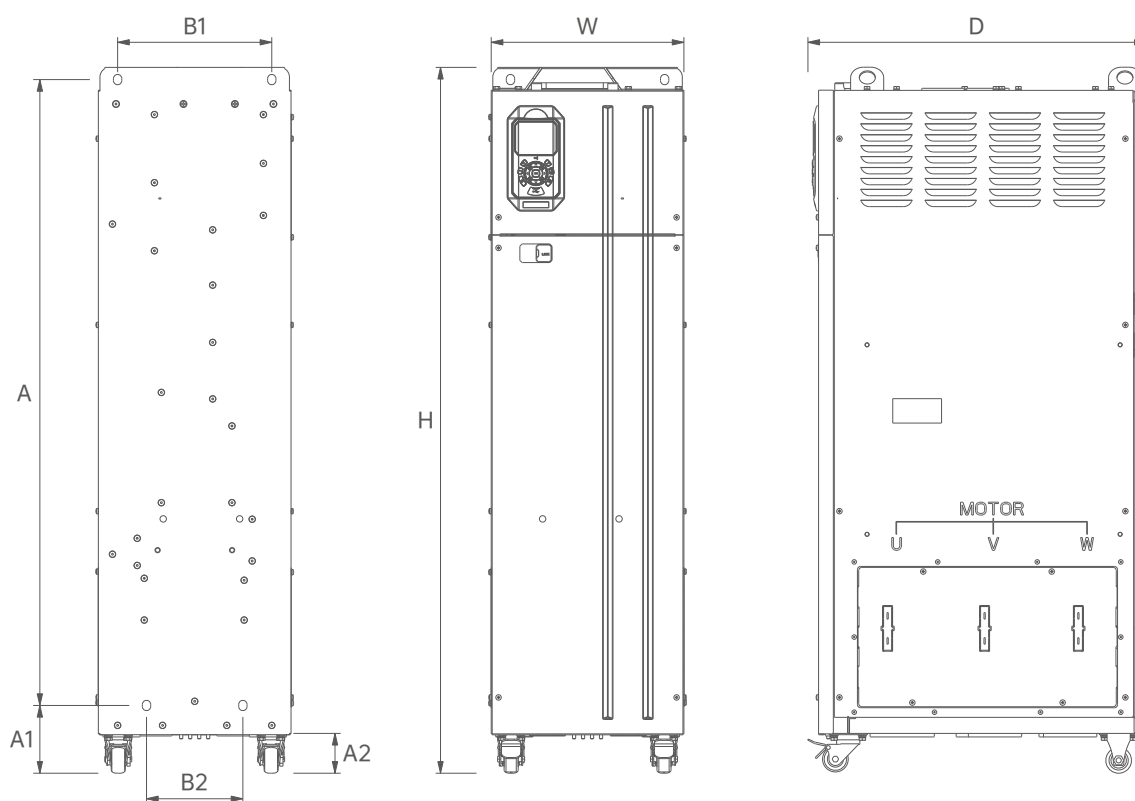
Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
H	MV820G1-2T45BS MV820G1-2T45BTS MV820G1-2T55BS MV820G1-2T55BTS MV820G1-4T90BS MV820G1-4T90BTS MV820G1-4T110BS MV820G1-4T110BTS	539	230	230	560	300	300	10

Enclosure I



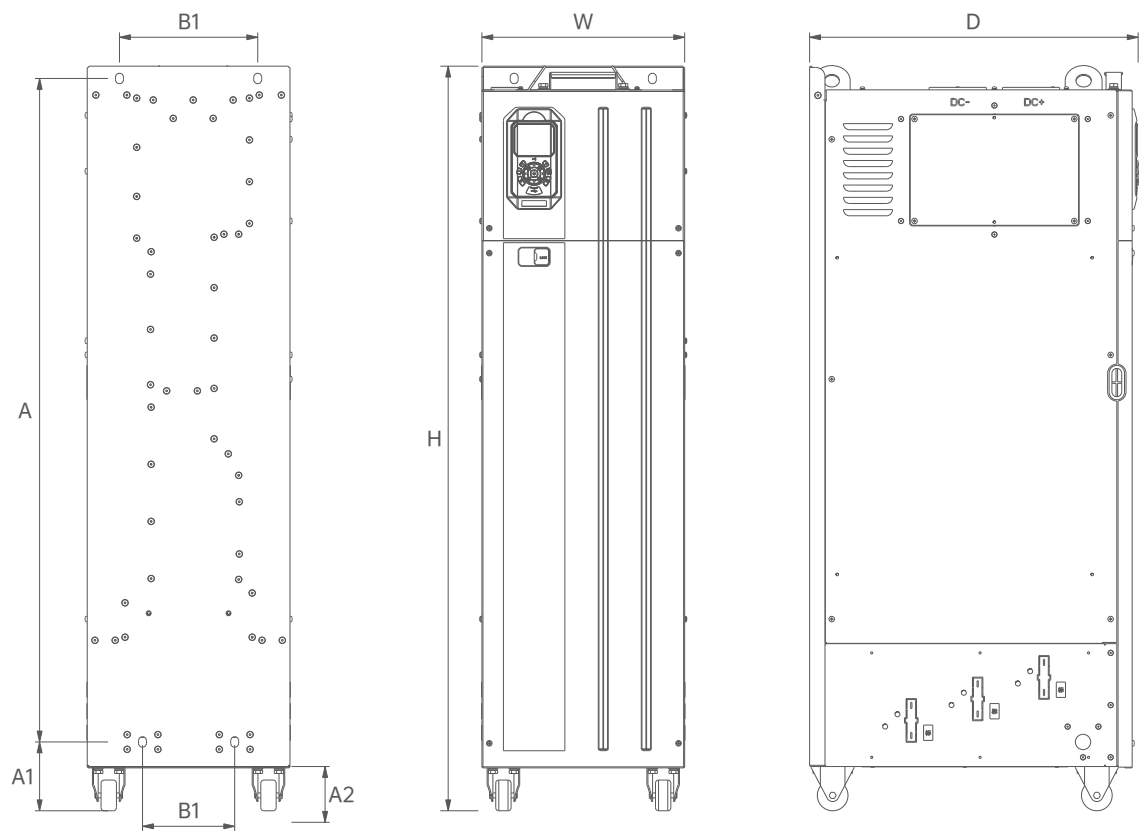
Enclosure model	Drive model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Mounting hole diameter (mm)
I	MV820G1-4T132TS MV820G1-4T160TS	875	230	230	900	310	429	10

Enclosure J



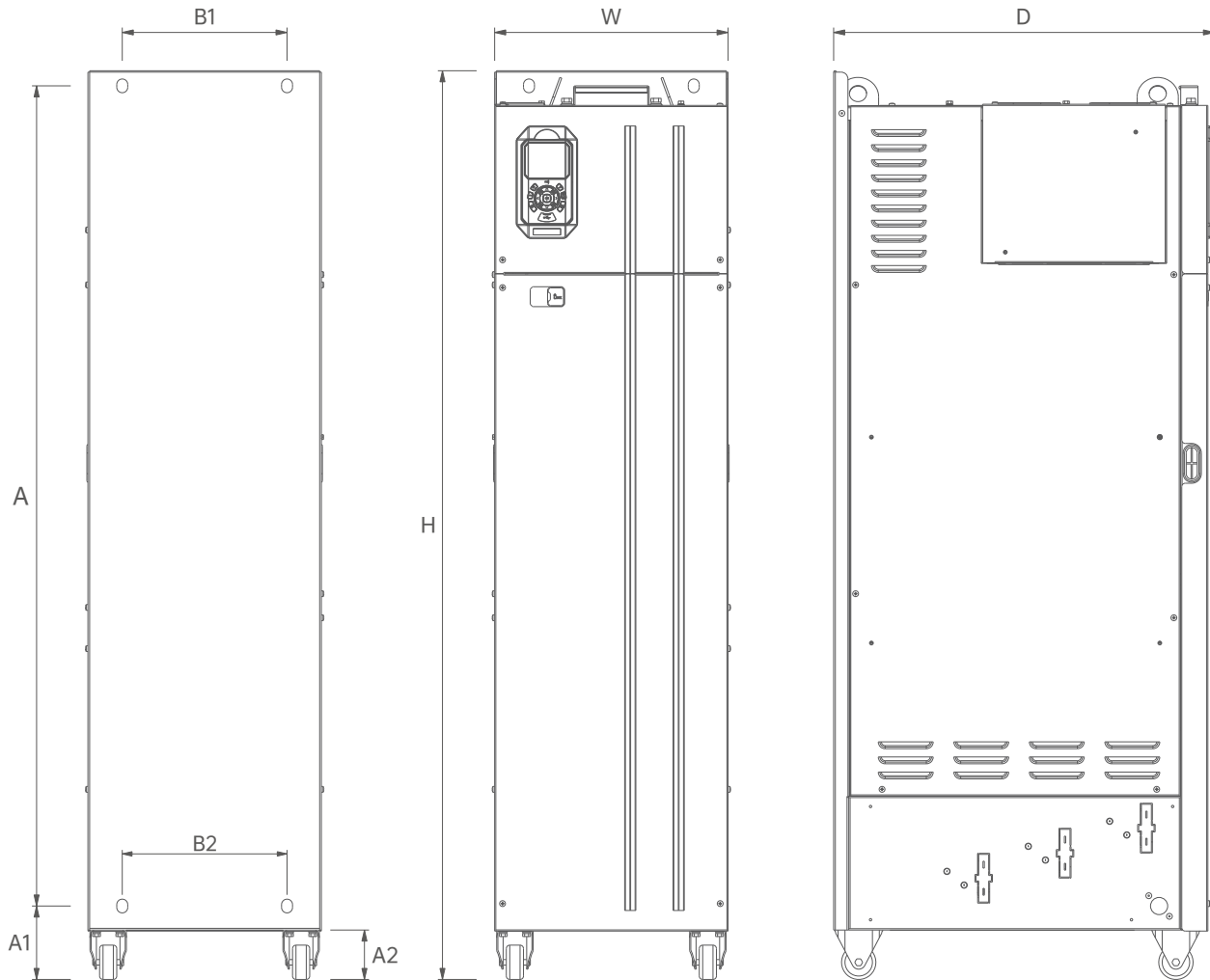
Enclosure model	Drive model	A (mm)	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)
J	MV820G1-4T185TS MV820G1-4T200TS MV820G1-4T220TS	974.5	105.5	62	240	150	1039	300	520

Enclosure K



Enclosure model	Drive model	A (mm)	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)
K	MV820G1-4T250TS MV820G1-4T280TS	1080	112	72	225	150	1212	330	535

Enclosure L



Enclosure model	Drive model	A (mm)	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)
L	MV820G1-4T315TS MV820G1-4T355TS MV820G1-4T400TS	1195	107	72	240	240	1324	340	555

Global Infrastructure

MEGMEET's global footprint includes advanced R&D centers, integrated manufacturing, and regional offices enabling fast response, localized support, and efficient deployment worldwide.

MEGMEET's international engineering network supports close customer collaboration, rapid validation, and region-specific adaptation to deliver reliable, high-performance solutions globally.



10 R&D Centers



8 Owned Manufacturing

