

DM5 Series

High-Performance

Low Voltage Servo System

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

Industry Automation

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

New Energy Solutions

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

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



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Version: 202504

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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, New Energy Solutions, Intelligent Equipment, Home Appliance Control Solutions, and Precision Connection.


MEGMEET has established a robust R&D, manufacturing, marketing, and service platform, with over 7,600 employees worldwide. MEGMEET's global presence includes R&D Centers in China, Germany, and the United States; Manufacturing Centers in Thailand, India, and China; and Regional Offices across North America, Europe, and Asia.

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



7600+

Total Employees



1990+

No. of Patents & IP Rights


R&D CAPABILITY

Sustainable R&D Investment

R&D Investment


R&D Employees

>2800




Percentage of Total Employees

36%



Percentage of Total Sales


>11%



Patents & Industry Standards


No. of Patents & IP Rights

1990+

 400+ new in 2024


National & International standards

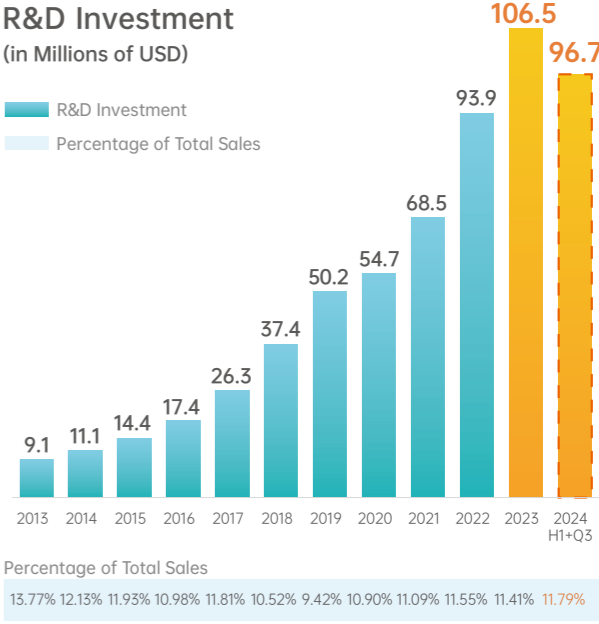
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 9 lead author

Industry Standards Drafted

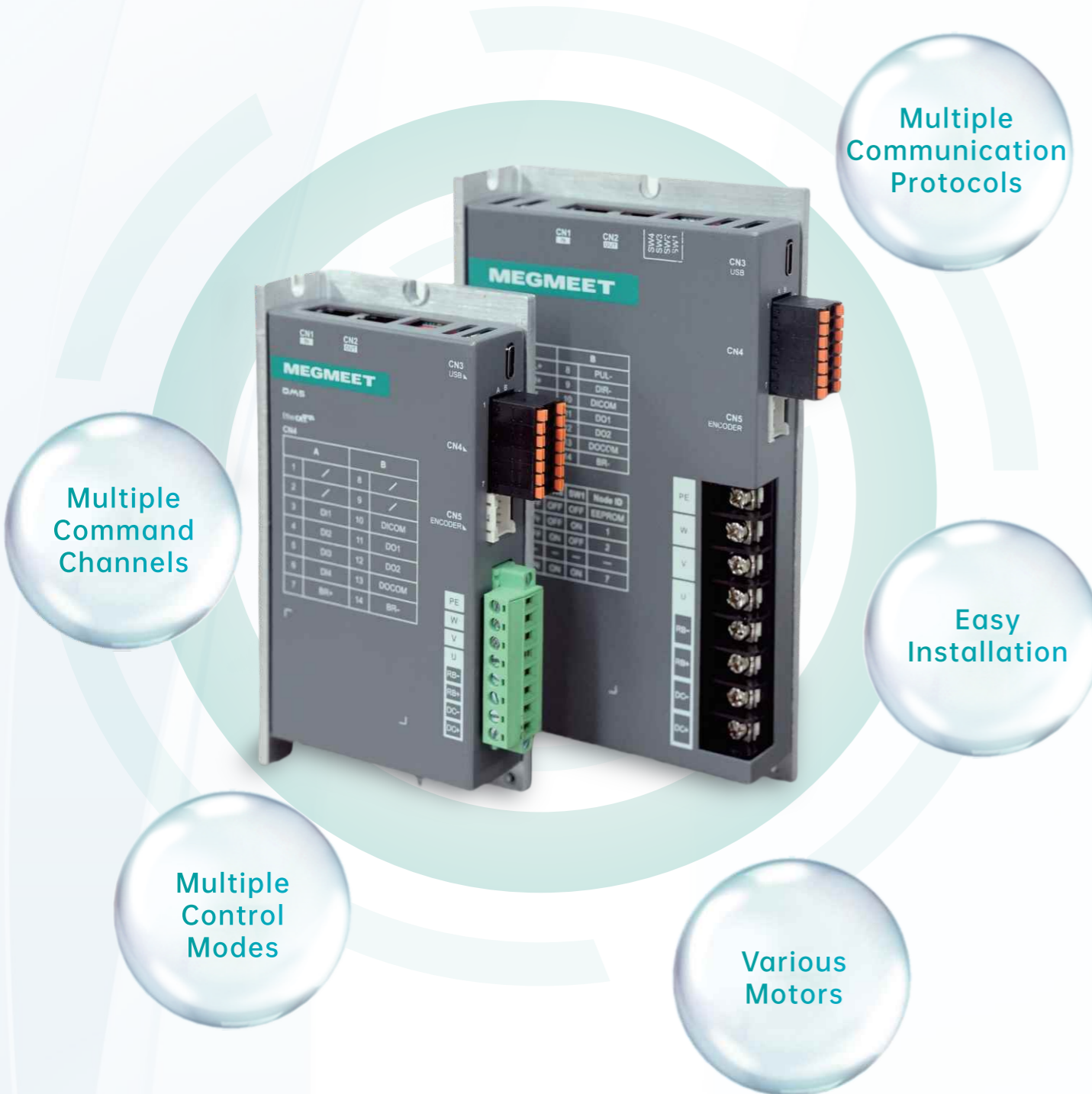
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DM5 Series High-Performance Low Voltage Servo System

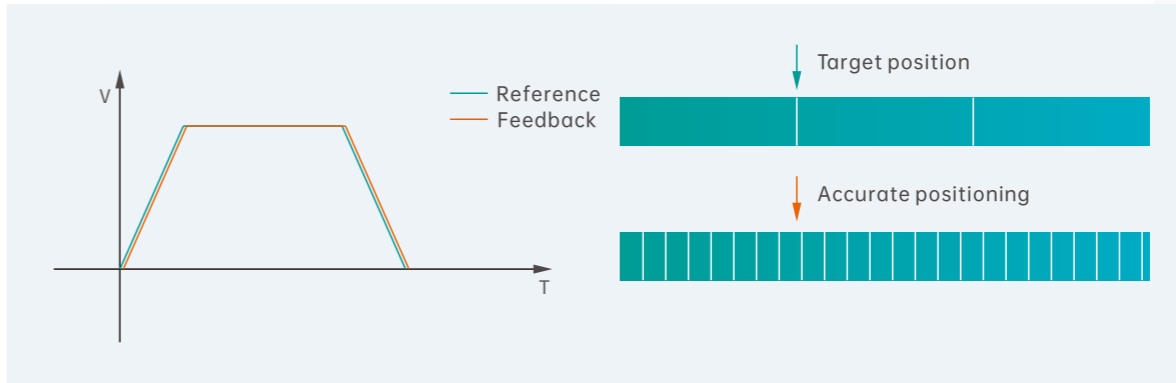
DM5 series low-voltage servo system is developed for logistics, service robots and other sectors that require automation. It can be charged within the range from 24 to 70 VDC, and can be used together with various kinds of motors, with multiple control modes such as pulse, CAN, EtherCAT available. Featured with high performance, high stability, and small size, DM5 servo system is an ideal choice for goods transportation and storage vehicles/equipment, service robots, and the like.



Product Features

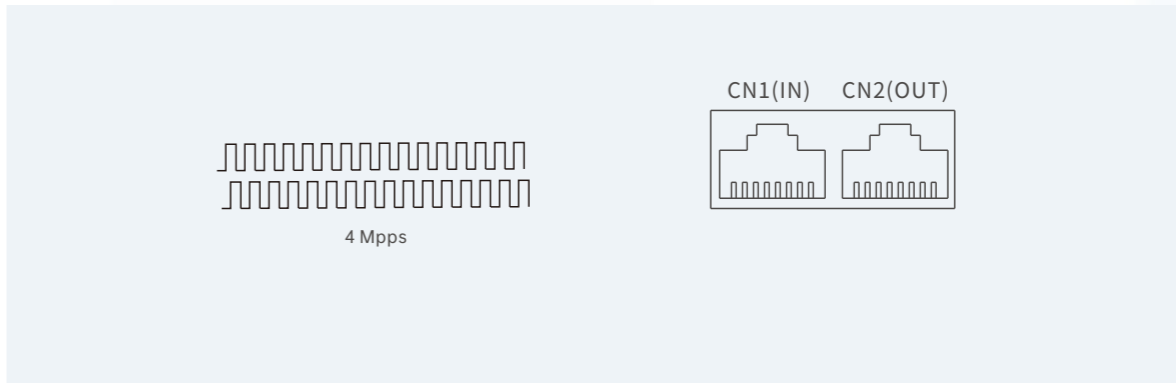
01 Multiple control modes

Motor speed, position and torque control



02 Multiple command channels

Pulse and communication control



03 Multiple communication protocols

EtherCAT, CANopen, and Modbus protocols for you to choose



04

Wide range of motors

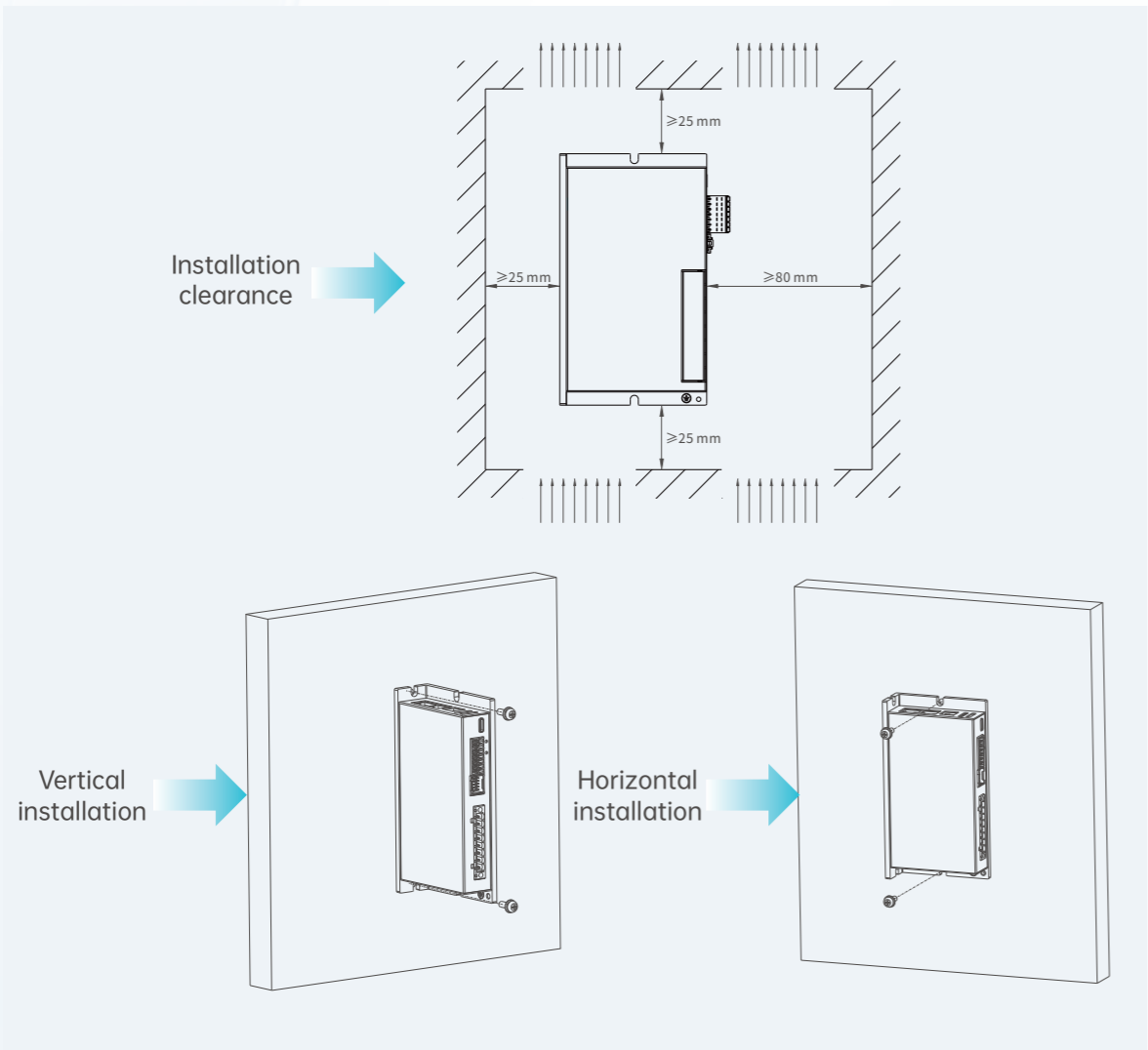
50 W to 1 kW motors with magnetic encoders



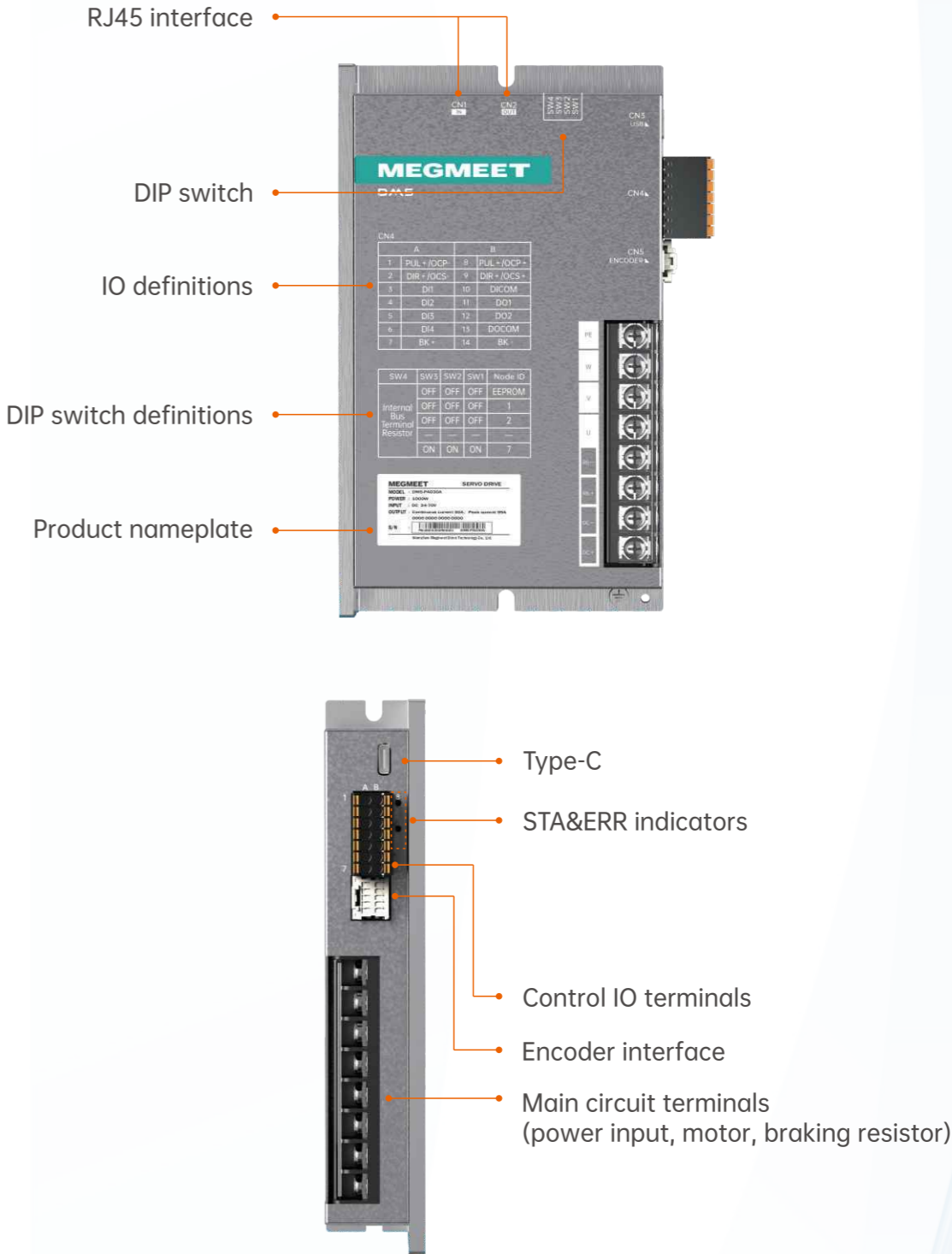
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Flexible installation

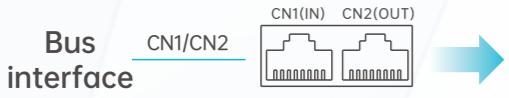
Small size, with auxiliary cooling baseplate as an option



Product Overview



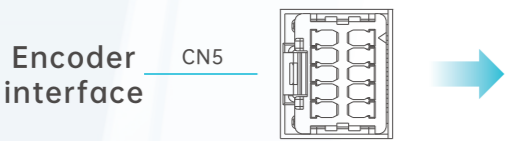
Interface Description



RJ45	Pin	DM5-P	DM5-C	DM5-N
	1	\	CANH	TX+
	2	\	CANL	TX-
	3	\	CAN_GND	RX+
	4	RS485+	\	
	5	RS485-	\	
	6	\	\	RX-
	7	\	\	
	8	485_GND	\	
	Metal housing	PE	PE	PE



CN4	Pin	Signal	Description
	1	PUL+/OCP-	Three kinds of commands: AB orthogonal, direction + pulse and CW/CCW Differential input: max. frequency 500 Kpps Open-collector input: max. frequency 200 Kpps
	8	PUL-/OCP+	
	2	DIR+/OCS-	
	9	DIR-/OCS+	
	3	DI1	S-ON: Servo enable
	4	DI2	STOP: Emergency stop
	5	DI3	INHIBIT: Pulse inhibited
	6	DI4	ALM-RST: Alarm reset
	10	DICOM	DI common
	11	DO1	S-RDY: Servo Ready
	12	DO2	COIN: Positioning Completed
	13	DOCOM	DO common
	7	BK+	Brake output
	14	BK-	



CN5	Pin	Signal
	1	+5V
	2	GND
	3	SD+
	4	SD-
	5	\
	6	\
	7	\
	8	\
	9	PE
	10	PE

DM5 Naming Rule

DM5 - P A 015 B - XX

1 2 3 4 5 6

1 Product series

DM5: DM5 series

2 Communication

P: General type
C: CANopen
N: EtherCAT

3 Voltage class

A: 24 to 70 V
B: 48 to 96 V
C: 70 to 110 V

4 Rated current

015: 15 A
030: 30 A

5 Brake

B: With brake

6 Description

XX: Reserved

DM5 Electrical Specifications

Input voltage (VDC)	Drive model	Rated output current (A)	Peak output current (A)	Control mode	Brake power	Discharge resistor	Cooling method	Dimensions (mm)	Commonly applied motor power (kW)
24 to 70 V	DM5-PA015B	15 A (up to 12 A without auxiliary cooling)	48 A	RS485, pulse	Built-in	External	Natural cooling + auxiliary cooling metal housing	142x77x29 mm	0.2 0.4
	DM5-CA015B			CANopen					
	DM5-NA015B			EtherCAT					
	DM5-PA030B	30 A (up to 22 A without auxiliary cooling)	99 A	RS485, pulse				171x100x30 mm	0.75 1.0
	DM5-CA030B			CANopen					
	DM5-NA030B			EtherCAT					

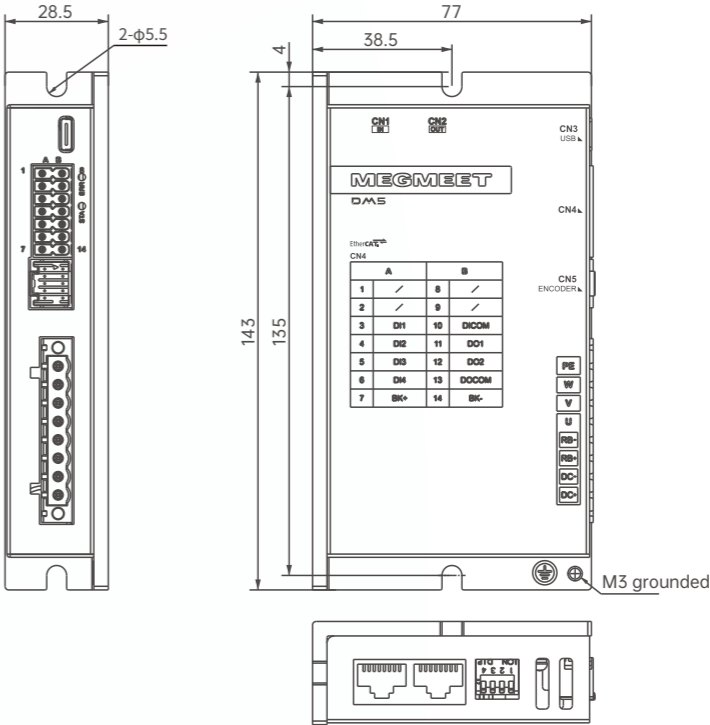
DM5 System Configuration

Power (W)	Motor model	Encoder type	Connection type	Brake cable	Power cable	Encoder cable	Servo drive		
							RS485+pulse	CANopen	EtherCAT
50	SPM-DC8045AM*K-AAXX-L	17-bit multi-turn magnetic encoder	Directly connected to the servo drive	Directly connected to the drive, with no cable requirements. XX indicates the outgoing cable length. The standard cable length is 500 mm, with corresponding XX being 05.			DM5-PA015B	DM5-CA015B	DM5-NA015B
100	SPM-DC80401M*K-AAXX-L								
200	SPM-DC80602M*K-AAXX-L								
400	SPM-DC80604M*K-AAXX-L								
600	SPM-DC80606M*K-BAXX-L								
750	SPM-DC80807M*K-BAXX-L						DM5-PA030B	DM5-CA030B	DM5-NA030B
1000	SPM-DC80810M*K-BAXX-L								

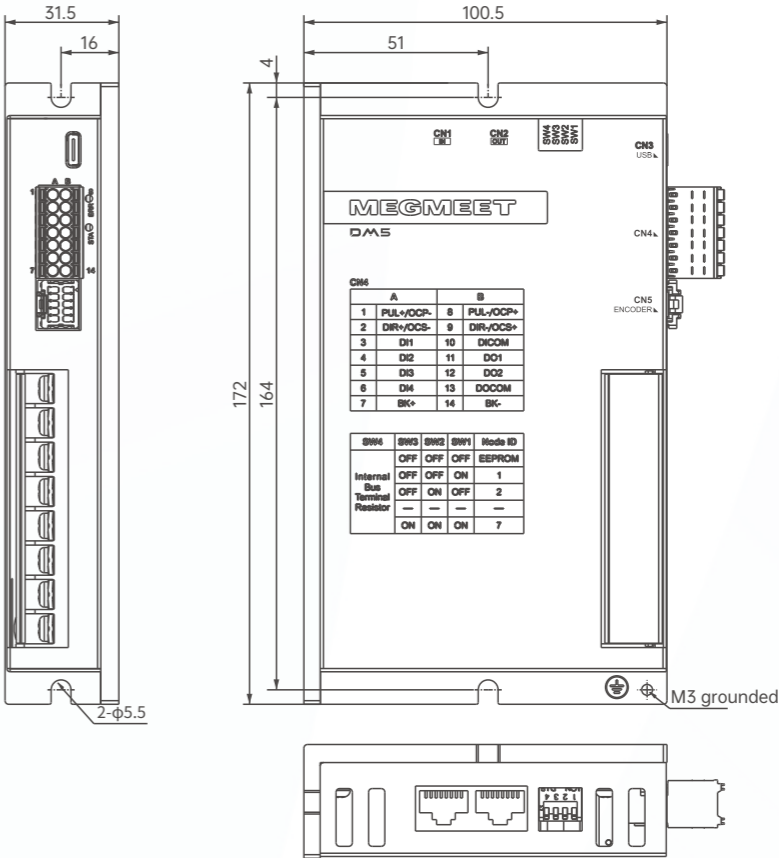
Power (W)	Motor model	Encoder type	Connection type	Brake cable	Power cable	Encoder cable	Servo drive		
							RS485+pulse	CANopen	EtherCAT
50	SPM-DC8045AMAK-ECXX-L	17-bit multi-turn magnetic encoder	Via aviation plug	Brake&Power cable	SPL-MG11-XX-R2	SPL-E21-XX-R2	DM5-PA015B	DM5-CA015B	DM5-NA015B
	SPM-DC8045AMBK-FCXX-L				SPL-BMG11-XX-R2	SPL-E21-XX-R2			
100	SPM-DC80401MAK-ECXX-L			Brake&Power cable	SPL-MG11-XX-R2	SPL-E21-XX-R2			
	SPM-DC80401MBK-FCXX-L				SPL-BMG11-XX-R2	SPL-E21-XX-R2			
200	SPM-DC80602MAK-ECXX-L			SPL-B21-XX-R2	SPL-MG11-XX-R2	SPL-E21-XX-R2			
	SPM-DC80602MBK-ECXX-L				SPL-MG11-XX-R2	SPL-E21-XX-R2			
400	SPM-DC80604MAK-GCXX-L			SPL-B21-XX-R2	SPL-MH21-XX-R2	SPL-E21-XX-R2	DM5-PA030B	DM5-CA030B	DM5-NA030B
	SPM-DC80604MBK-GCXX-L				SPL-MH21-XX-R2	SPL-E21-XX-R2			
600	SPM-DC80606MAK-GCXX-L			SPL-B21-XX-R2	SPL-MI22-XX-R2	SPL-E21-XX-R2			
	SPM-DC80606MBK-GCXX-L				SPL-MI22-XX-R2	SPL-E21-XX-R2			
750	SPM-DC80807MAK-GCXX-L			SPL-B21-XX-R2	SPL-MJ22-XX-R2	SPL-E21-XX-R2			
	SPM-DC80807MBK-GCXX-L				SPL-MJ22-XX-R2	SPL-E21-XX-R2			
1000	SPM-DC80810MAK-GCXX-L			SPL-B21-XX-R2	SPL-MJ22-XX-R2	SPL-E21-XX-R2			
	SPM-DC80810MBK-GCXX-L				SPL-MJ22-XX-R2	SPL-E21-XX-R2			

Product Dimensions

Size A

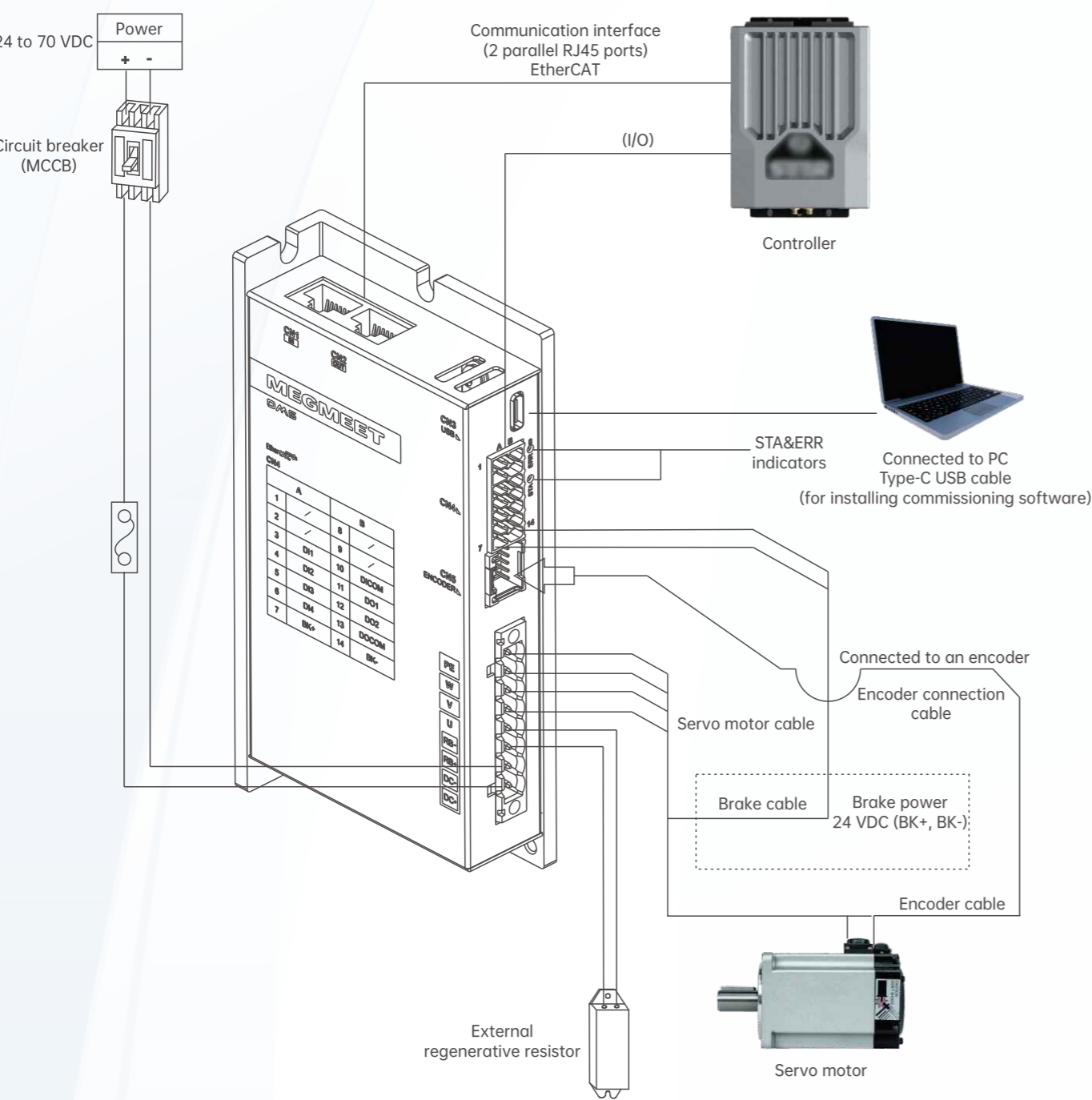


Size B

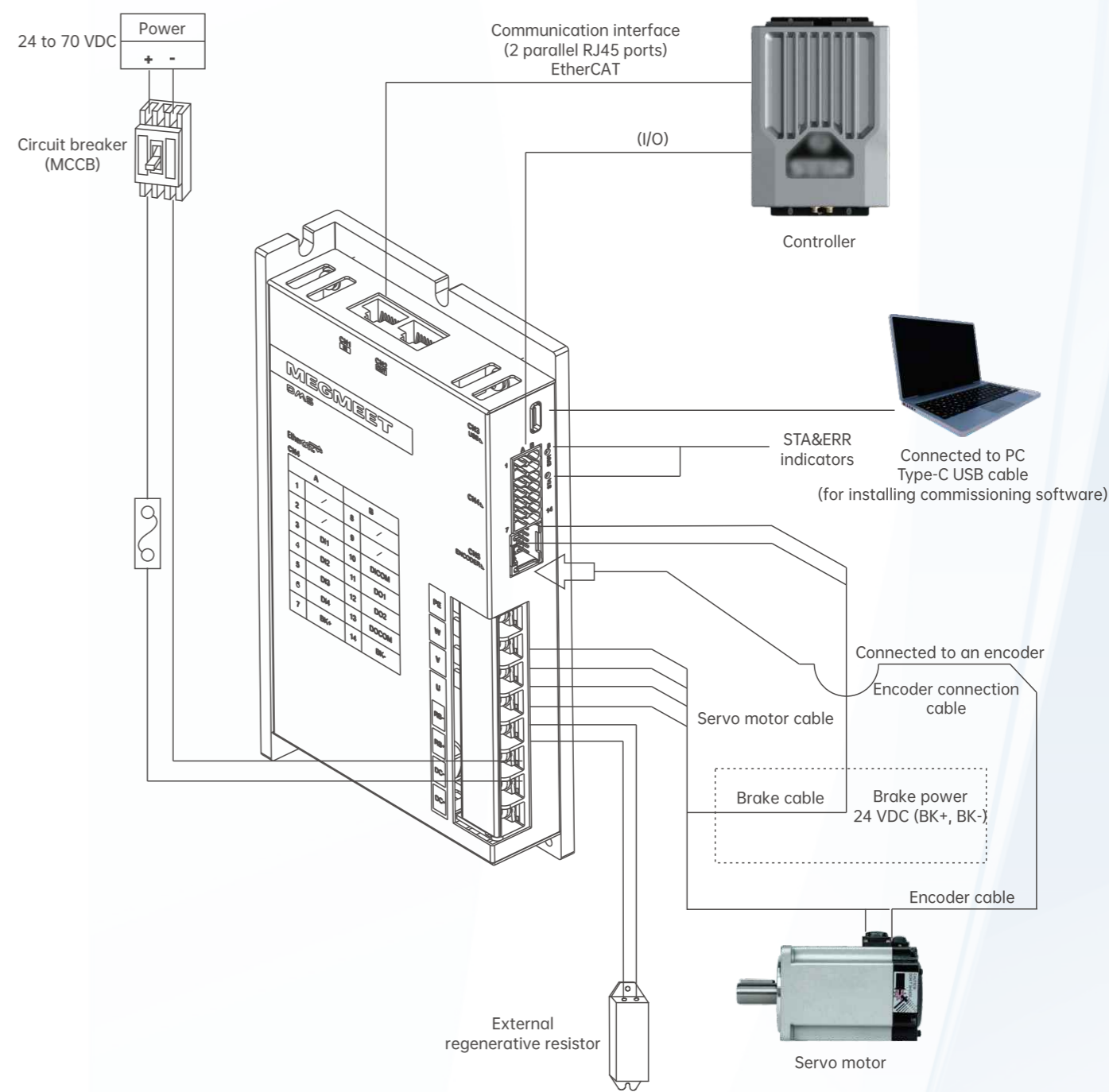


DM5-N Drive Wiring

Size A wiring

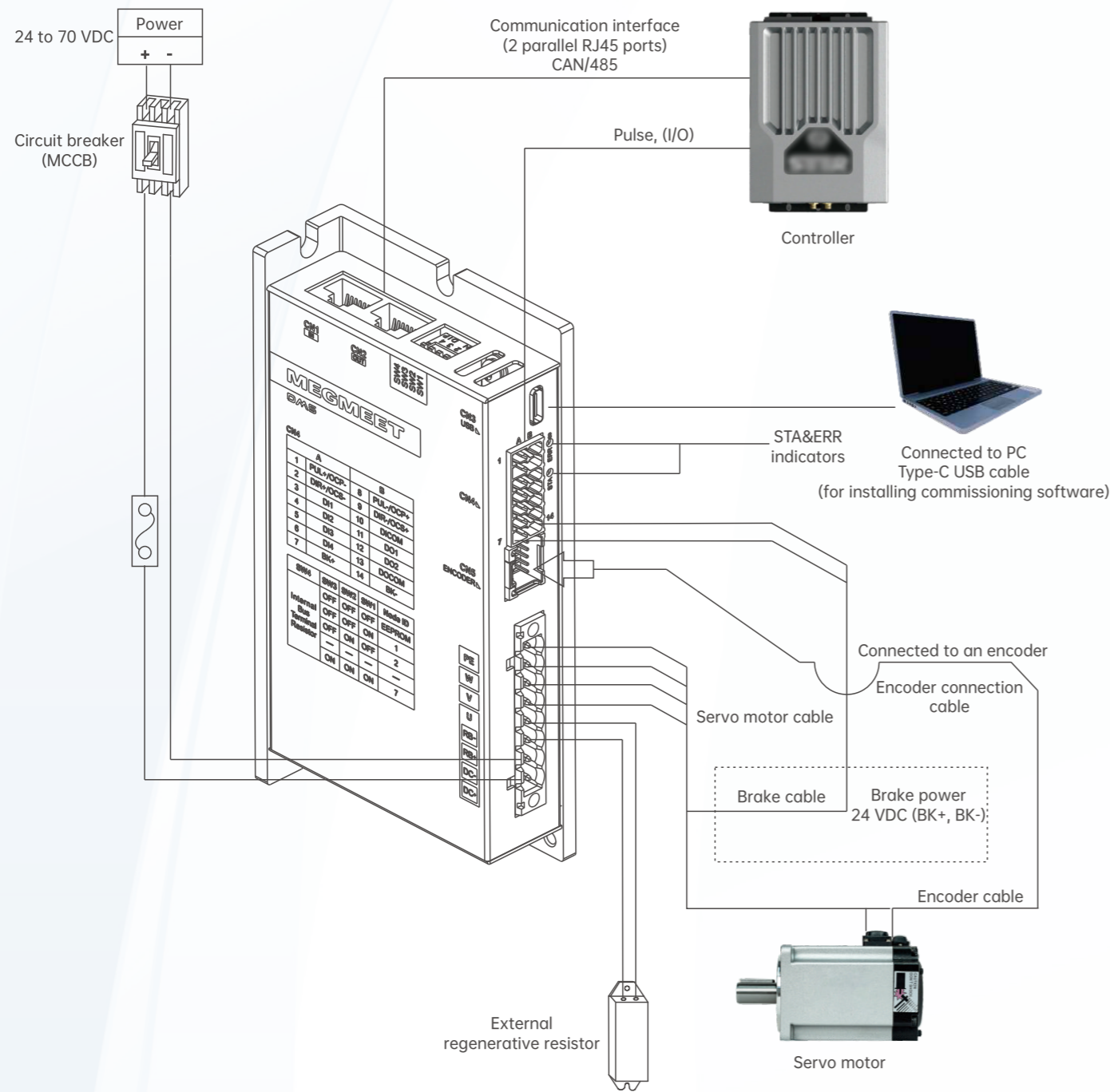


Size B wiring

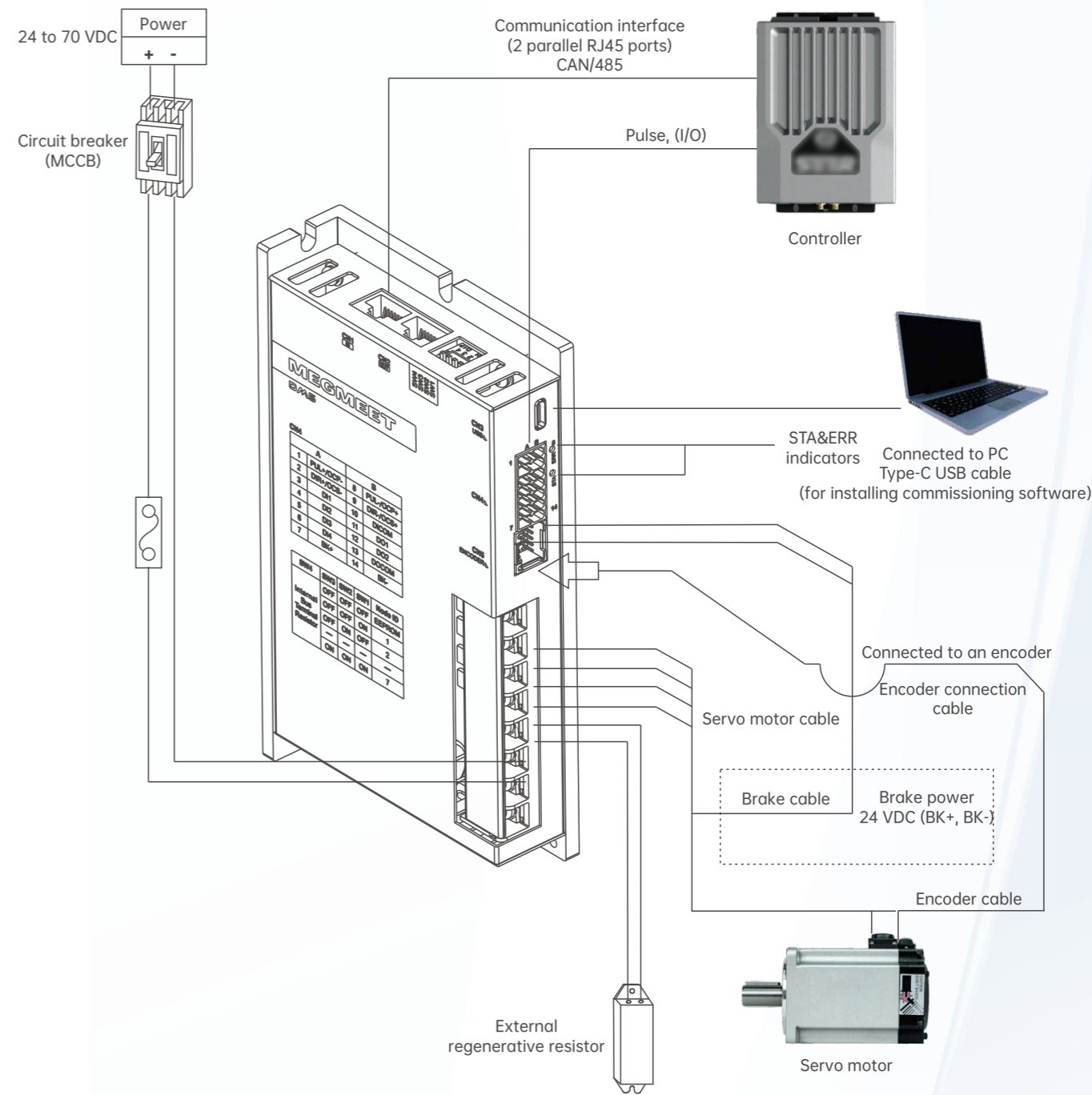


DM5-P/C Drive Wiring

Size A wiring



Size B wiring



Technical Specifications

Basic specifications		
Control mode		MOSFET PWM control, sine wave current drive
Main circuit power supply		24 to 70 VDC
Working efficiency		≥ 95%
Encoder		Tamagawa absolute encoders supported; communication-type photoelectric and magnetoelectric encoders (single-turn, multi-turn) supported
IO		
Digital signal	DI	4 general inputs, optocoupler isolation, both NPN and PNP inputs available Input voltage range: 20 to 30 V, input impedance: 3.9 K Various functions can be defined through function codes Maximum input frequency: 300 Hz
	DO	2 general outputs, optocoupler isolation, both NPN and PNP outputs available Maximum operating voltage 30 V, maximum current 50 mA Various functions can be defined through function codes
Pulse signal	Pulse reference	Optocoupler isolation Open-collector input, input pulse frequency ≤ 200 Kpps Only for the DM5-P version, compatible with both 5 V and 24 V systems
	High-speed pulse reference	Differential input Input pulse frequency ≤ 500 Kpps Only for the DM5-P version
	Direction + pulse, AB orthogonal, CW+CCW	
	Pulse feedback	Not supported
Communication function		
485	Two RJ45	Modbus protocols supported, for the DM5-P version
CAN	Two RJ45	CANopen protocols supported, for the DM5-C version
EtherCAT	Two RJ45	EtherCAT supported, for the DM5-N version
USB□	USB Type-C	Communication with PC, for commissioning and upgrade of parameters and programs
Others		
State	LED indication	2 LEDs. STA: State indicator; ERR: Error indicator
Brake power supply		24 V brake power supply built in the drive
Brake output interface		The whole series has this interface, no matter with or without brake.
Braking interface		Action upon overvoltage (shorting is strictly prohibited as short circuit protection is not supported)
Braking resistor		External
4-position DIP switch (doubled for two shafts)		This switch is only reserved for DM5-P and DM5-C, not for DM5-N. The positions 1-3 are used to set the CAN ID of the device and the position 4 is used to set the bus impedance (120 Ω). If 1-3 are not toggled on, the host controller can set the CAN ID of the device and write it to EEPROM.
General function		
Auto-adjustment		The host controller issues a command to run the motor, during which the load moment of inertia ratio is estimated in real time and the rigidity level is automatically set.
Switchover of multiple control modes		1. Position mode; 2. Speed mode; 3. Torque mode; 4. Position/Speed mode switchover; 5. Speed/Torque mode switchover; 6. Position/Torque mode switchover; 7. CANopen; 8. EtherCAT
Pulse frequency division		No such function
Protection function		Overvoltage, undervoltage, overcurrent, locked rotor, overspeed, stall, overheat, overload, encoder abnormality, input phase loss, and excessive position deviation (measuring braking resistor)
High-frequency vibration suppression		4 sets of notch filters, suppressing the vibration from 0 to 4000 Hz; 1 set of speed reference notch filter from 0 to 1000 Hz
End vibration suppression		2 sets of filters, suppressing the end low-frequency vibration from 1 Hz to 100 Hz
Homing mode		Multiple homing modes

General function			
Reverse clearance compensation	Used to improve the response delay that occurs when the traveling direction of the machine is reversed		
Mechanical analyzer	Used to analyze frequency features of the mechanical system through the host software		
Inertia identification	Offline and online system inertia identification		
Torque observer	Load torque observation and compensation		
Friction compensation	System friction compensation		
Position control			
Control input	Deviation counter clear, pulse command input inhibited, electronic gear ratio switchover and so on		
Control output	Positioning completed		
Pulse input	Pulse type	1. Pulse + direction; 2. A/B pulse orthogonal; 3. CW/CCW pulse	
	Input type	1. Differential input; 2. Open-collector input	
	Pulse frequency	Differential: up to 500 Kpps for the high-speed port, and pulse width above 1 us Open-collector: up to 200 Kpps, and pulse width above 2.5 us	
	Pulse filter	First-order reference smooth filter or FIR filter	
	Electronic gear	4 sets of electronic gear ratio	
Multiple position references	16-segment position selection by 4 DIs		
Speed control			
Performance	Speed variation rate	Load variation rate	0 to 100% of load: below 0.5% (at rated speed)
		Voltage variation rate	Rated voltage ±10%: 0.5% (at rated speed)
		Temperature variation rate	25±25°C: below 0.5% (at rated speed)
	Speed control range		1 to 5000
	Speed loop response		2 kHz
	Soft start time		0 to 6000 ms
Control input	Internal speed reference 1/2/3, zero speed clamp, and so on		
Control output	Speed arrival, and so on		
Internal speed reference	Switchover of 8-segment speed reference by 3 DIs		
Speed reference filter	First-order delay filter for speed reference		
Torque control			
Performance	Torque control accuracy	±1%	
	Frequency feature	3 kHz	
Control input	Zero speed clamp, torque reference symbol input, and so on		
Control output	Speed arrival, and so on		
Speed limit function	Set speed limit values through function codes		
Torque reference filter	First-order delay filter for torque reference		

Motor Model

SPM - B C 8 06 04 M A K - AA 05 - L

1 2 3 4 5 6 7 8 9 10 11 12

1 Product series

SPM: SPM series

2 Rated voltage (V)

A: 12 E: 60
B: 24 F: 72
C: 36 G: 80
D: 48 ...

48 V is the default configuration.
For other voltage requirements,
please contact us.

3 Rated speed

A: 1000 E: 2000
B: 2500 F: 4000
C: 3000 G: 5000
D: 1500 ...

4 Encoder type

5: 17-bit single-turn
absolute optical encoder
6: 23-bit multi-turn
absolute optical encoder
7: 17-bit single-turn
absolute magnetic encoder
8: 17-bit multi-turn
absolute magnetic encoder

5 Frame

02: 20*20 10: 100*100
04: 40*40 11: 110*110
06: 60*60 13: 130*130
08: 80*80 18: 180*180

6 Rated power

5A: 50 06: 600
01: 100 07: 750
02: 200 10: 1000
04: 400

7 Inertia type

L: Low inertia
M: Medium inertia
H: High inertia

8 With/Without brake

A: Without brake
B: With brake

9 Output shaft

M: With keyway without oil seal
K: With keyway with oil seal
O: Optical shaft with oil seal
C: External spline with oil seal
D: D-type shaft with oil seal

10 Terminal combination

Mark	Power terminal	Encoder terminal
AA	UVW and PE are needle-type terminals	Molex 10 pin female
BA	UVW and PE are U-type terminals	Molex 10 pin female
EC	Aviation plug GM-1310/P-4B	Aviation plug GM-1310/P-7
FC	Aviation plug GM-1310/P-6B	Aviation plug GM-1310/P-7
GC	Aviation plug GM-2110/P-4	Aviation plug GM-1310/P-7

11 Cable length (m)

03: 3*0.1
05: 5*0.1
10: 10*0.1

12 Motor design number

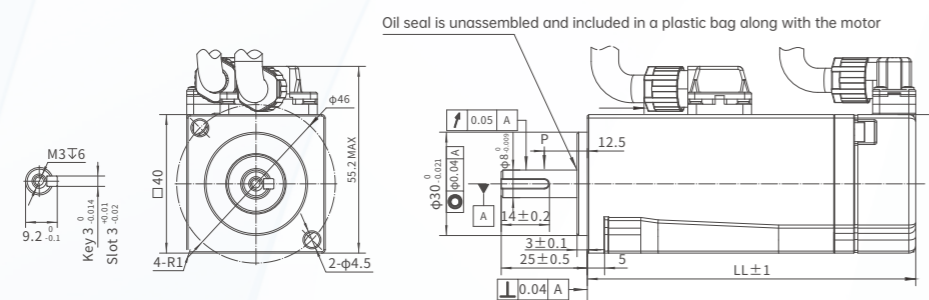
Basic Specifications of Motors

Motor model	SPM-DC8045AM*K-AAXX-L	SPM-DC80401M*K-AAXX-L	SPM-DC80602M*K-AAXX-L
Voltage (V)	48	48	48
Power (W)	50	100	200
Rated speed (rpm)	3000	3000	3000
Max. speed (rpm)	4000	4000	4000
Rated torque (N·m)	0.16	0.32	0.64
Peak torque (N·m)	0.48	0.96	1.92
Rated current (A)	3.0	5.7	6.0
Peak current (A)	9.3	17.7	18.6
Motor frame	40	40	60
Moment of inertia (kg·cm ²)	0.046(0.036)	0.072(0.062)	0.3(0.29)
Number of pole pairs (P)	5	5	5
Brake voltage (V)	24	24	24
Brake power (W)	6.9	6.9	7.5
Brake static torque (N·m)	≥0.4	≥0.4	≥1.5

Motor model	SPM-DC80604M*K-AAXX-L	SPM-DC80606M*K-BAXX-L	SPM-DC80807M*K-BAXX-L	SPM-DC80810M*K-BAXX-L
Voltage (V)	48	48	48	48
Power (W)	400	600	750	1000
Rated speed (rpm)	3000	3000	3000	3000
Max. speed (rpm)	4000	4000	4000	4000
Rated torque (N·m)	1.27	1.91	2.39	3.2
Peak torque (N·m)	3.81	5.73	7.17	9.6
Rated current (A)	10	15	19	28
Peak current (A)	31	46.5	59	87
Motor frame	60	60	80	80
Moment of inertia (kg·cm ²)	0.59(0.58)	0.84(0.83)	1.65(1.5)	1.95(1.8)
Number of pole pairs (P)	5	5	5	5
Brake voltage (V)	24	24	24	24
Brake power (W)	7.5	8.3	11.5	11.5
Brake static torque (N·m)	≥1.5	≥2	≥3.2	≥3.2

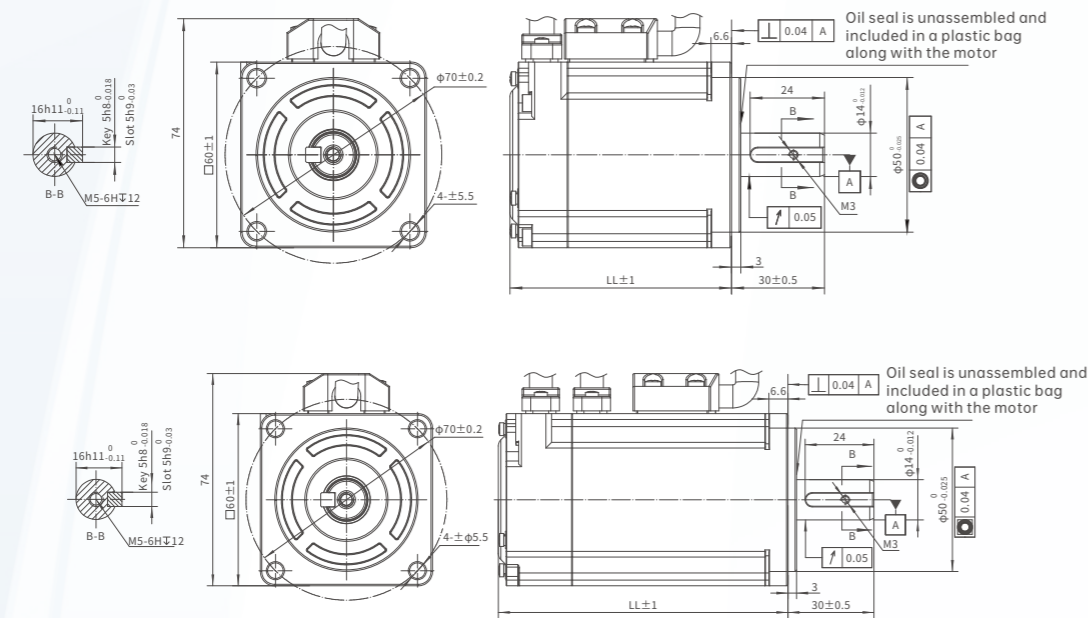
Motor Dimensions

40 frame



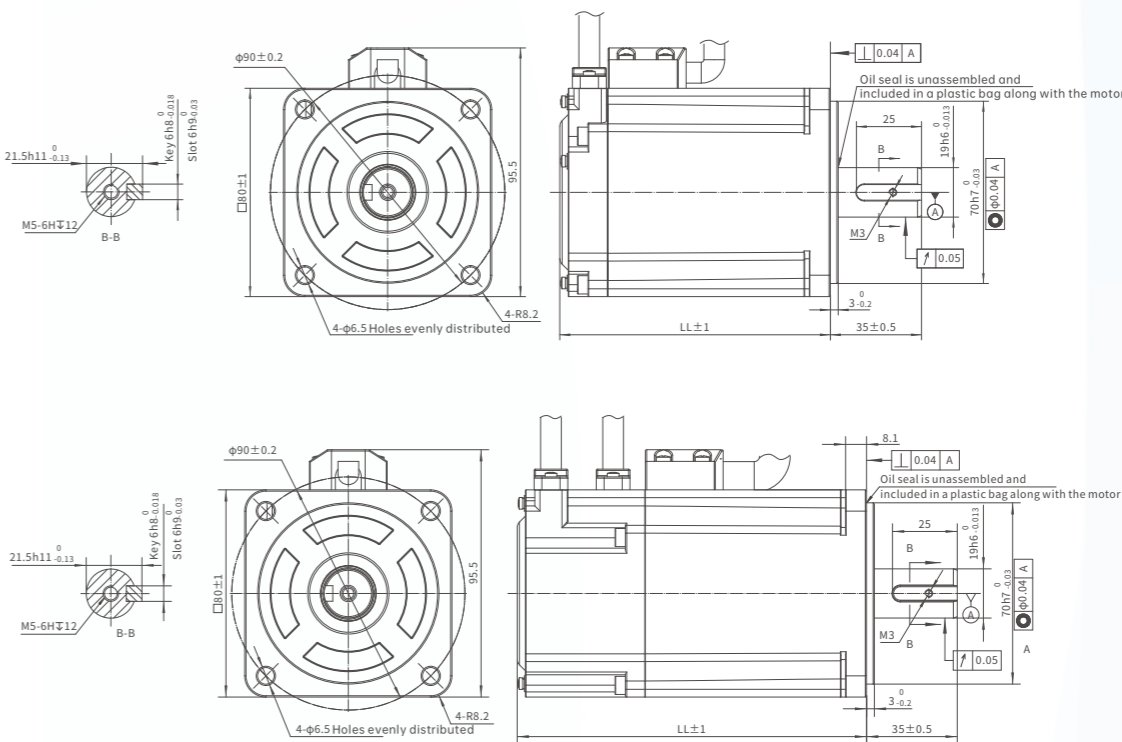
Frame	Power (W)	Motor model	Motor length LL	
			Without brake	With brake
40	50	SPM-DC8045AM*K-AAXX-L	56.7	84
40	100	SPM-DC80401M*K-AAXX-L	67.7	95

60 frame



Frame	Power (W)	Motor model	Motor length LL	
			Without brake	With brake
60	200	SPM-DC80602M*K-AAXX-L	71.6	101.9
60	400	SPM-DC80604M*K-AAXX-L	88.6	118.1
60	600	SPM-DC80606M*K-BAXX-L	108.6	138.1

80 frame



Frame	Power (W)	Motor model	Motor length LL	
			Without brake	With brake
80	750	SPM-DC80807M*K-BAXX-L	90.9	121.9
80	1000	SPM-DC80810M*K-BAXX-L	103.9	134.9

Naming Rules of Motor Cables

Power cable

SPL - B MH 1 2 - 03 - R2
1 2 3 4 5 6 7

1 Product series

SPL: SPL series

2 With/Without brake

None: Without brake
B: With brake

3 Copper wire

MG: Cross-sectional area 0.75 mm²
MH: Cross-sectional area 1.5 mm²
MI: Cross-sectional area 2.5 mm²
MJ: Cross-sectional area 3.3 mm²
MK: Cross-sectional area 4.0 mm²

4 Motor side terminal

Mark	Motor side terminal (without brake)	Motor side terminal (with brake)
1	Aviation plug GM-1311/S-4B	Aviation plug GM-1311/S-6B
2	Aviation plug GM-2111/S-4	/

5 Drive side terminal

1: UVW and PE are needle-type terminals
2: UVW and PE are U-type terminals
3: UVW are needle-type and PE is U-type
4: UVW are U-type and PE is needle-type

6 Cable length

03: 3 m
05: 5 m
10: 10 m

7 Bending resistance

None: Normal cable
R1: 5 million times flexible cable
R2: 10 million times flexible cable
R3: 20 million times flexible cable
R4: 30 million times flexible cable

Encoder cable

SPL - E 2 1 B - 03 - R2
1 2 3 4 5 6 7

1 Product series

SPL: SPL series

2 Cable type

E: Encoder cable

3 Motor side terminal

2: Aviation plug GM-1311/S-7

4 Drive side terminal

1: Molex 10 pin male

5 With/Without battery

None: Without battery and battery cable
A: With battery cable, without battery
B: With battery

6 Cable length

03: 3 m
05: 5 m
10: 10 m

7 Bending resistance

None: Normal cable
R1: 5 million times flexible cable
R2: 10 million times flexible cable
R3: 20 million times flexible cable
R4: 30 million times flexible cable

Brake cable

SPL - B 2 1 - 03 - R2
1 2 3 4 5 6

1 Product series

SPL: SPL series

2 Cable type

B: Brake cable

3 Motor side terminal

2: Aviation plug GM-1311/S-2

4 Drive side terminal

1: Needle type

5 Cable length

03: 3 m
05: 5 m
10: 10 m

6 Bending resistance

None: Normal cable
R1: 5 million times flexible cable
R2: 10 million times flexible cable
R3: 20 million times flexible cable
R4: 30 million times flexible cable

Motor Cable Selection

Power cable selection

Terminal combinations for standard power cables					
No.	AWG	Mark	Terminal combination		Suitable motor power
			Motor side terminal	Drive side terminal	
1	18 AWG (About 0.8 mm²)	MG11	Aviation plug GM-1311/S-4B	Needle-type	50 W to 200 W motors
2	18 AWG + 22 AWG	BMG11	Aviation plug GM-1311/S-6B	Needle-type	50 W to 100 W brake motors
3	15 AWG (About 1.5 mm²)	MH21	Aviation plug GM-2111/S-4	Needle-type	400 W motors
4	13 AWG (About 2.5 mm²)	MI22	Aviation plug GM-2111/S-4	U-type	600 W motors
5	12 AWG (About 3.3 mm²)	MJ22	Aviation plug GM-2111/S-4	U-type	750 W to 1 kW motors

Power cable definition

SPL-MG11-**-** definition (50 W to 200 W motors)			
A side (drive side): needle-type terminal		B side (motor side): aviation plug GM-1311/S-4B	
Pin	Signal	Signal	Pin
Needle type with label	U	U	1
Needle type with label	V	V	2
Needle type with label	W	W	3
Needle type with label	PE	PE	4

SPL-BMG11-**-** definition (50 W to 100 W brake motors)			
A side (drive side): needle-type terminal		B side (motor side): aviation plug GM-1311/S-6B	
Pin	Signal	Signal	Pin
Needle type with label	U	U	1
Needle type with label	V	V	2
Needle type with label	W	W	3
Needle type with label	PE	PE	4
Needle type with label	0V	0V	5
Needle type with label	24V	24V	6

SPL-MH21-**-** definition (400 W motors)			
A side (drive side): needle-type terminal		B side (motor side): aviation plug GM-2111/S-4	
Pin	Signal	Signal	Pin
Needle type with label	U	U	1
Needle type with label	V	V	2
Needle type with label	W	W	3
Needle type with label	PE	PE	4

SPL-MI22-**-** definition (600 W motors)			
A side (drive side): U-type terminal		B side (motor side): aviation plug GM-2111/S-4	
Pin	Signal	Signal	Pin
U type with label	U	U	1
U type with label	V	V	2
U type with label	W	W	3
U type with label	PE	PE	4

SPL-MJ22-**-** definition (750 W to 1 kW motors)			
A side (drive side): U-type terminal		B side (motor side): aviation plug GM-2111/S-4	
Pin	Signal	Signal	Pin
U type with label	U	U	1
U type with label	V	V	2
U type with label	W	W	3
U type with label	PE	PE	4

Encoder cable selection

Terminal combinations for standard encoder cables					
No.	AWG	Mark	Terminal combination		Suitable motor power
			Motor side terminal	Drive side terminal	
1	26 AWG (About 0.128 mm²)	E21	Aviation plug GM-1311/S-7	Molex 10 pin male	50 W to 1 kW motors

Encode cable definition

SPL-E21-**-** definition (50 W to 1 kW motors)			
A side (drive side): CJT connector A2011HA-2x5P		B side (motor side): aviation plug GM-1311/S-7	
Pin	Signal	Signal	Pin
1	5V	5V	2
2	GND	GND	3
3	SD+	SD+	4
4	SD-	SD-	5
5	Battery not connected to drive side	Battery+	6
6	Battery not connected to drive side	Battery-	7
7	/	/	/
8	/	/	/
9	PE	PE	1
10	/	/	/

Brake cable selection

Terminal combinations for standard brake cables					
No.	AWG	Mark	Terminal combination		Suitable motor power
			Motor side terminal	Drive side terminal	
1	22 AWG (About 0.325 mm²)	B21	Aviation plug GM-1311/S-2	Needle-type terminal	200 W to 1 kW brake motors

Brake cable definition

SPL-B21-**-** definition (200 W to 1 kW brake motors)			
A side (drive side): needle-type terminal		B side (motor side): aviation plug GM-1311/S-2	
Pin	Signal	Signal	Pin
Needle type terminal with label	+24V	+24V	1
Needle type terminal with label	0V	0V	2

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