

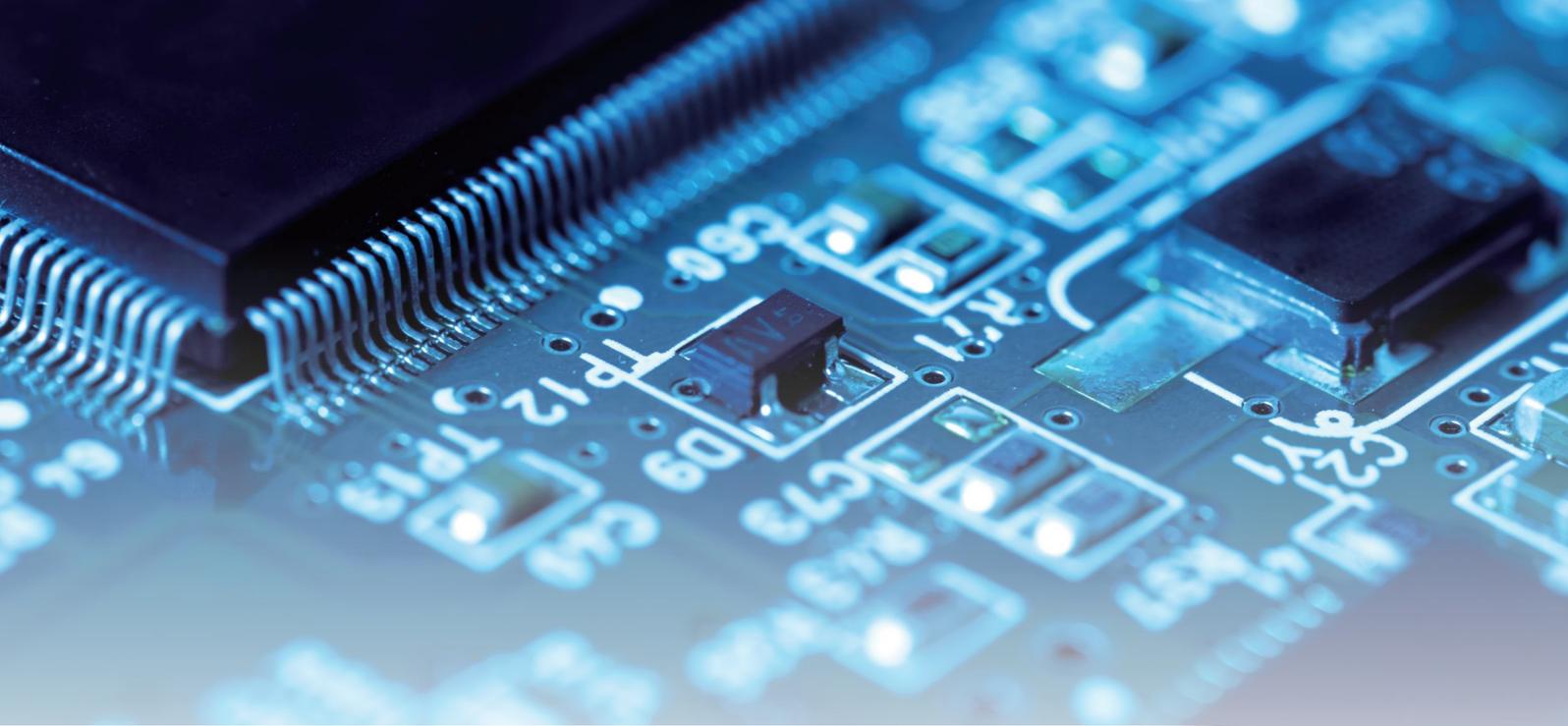
MH860C series

High-Performance Electro-Hydraulic Servo system



CE

invt



Product overview

MH860C series is a high-performance hydraulic servo drive, known for its fast dynamic response and smooth pressure control. It can be paired with the IMS20B series motors to form a high-performance electro-hydraulic servo system.

This product is primarily used in industries such as plastic molding, pipe extrusion, shoes making, rubber processing, die-casting, hydraulic presses, bending machines, and hydraulic stations.



/ Product features

- Superior performance

Advanced hydraulic control algorithm for rapid response and stable pressure control

- Reliable operation

Encoder and pressure sensor fault tolerance without shutdown, ideal for high-reliability applications like heavy-duty hydraulic stations

- Comprehensive power range

Power range from 7.5kW to 355kW (with built-in braking units for models 110kW and below)

- Simple installation

Book-style design with compact structure for easy in-cabinet mounting

- Extensive networking capabilities

Standard CAN and RS485 communication, with optional support for EtherCAT and PROFINET

- Easy export

CE certification compliant, with a wide voltage range supporting AC 480V input, supported by INVNT global service network for smooth international market expansion

- Easy commissioning

Type-C interface for convenient connection with the host controller

/ Application scenarios



Injection molding machines



Oil hydraulic presses



Hydraulic stations



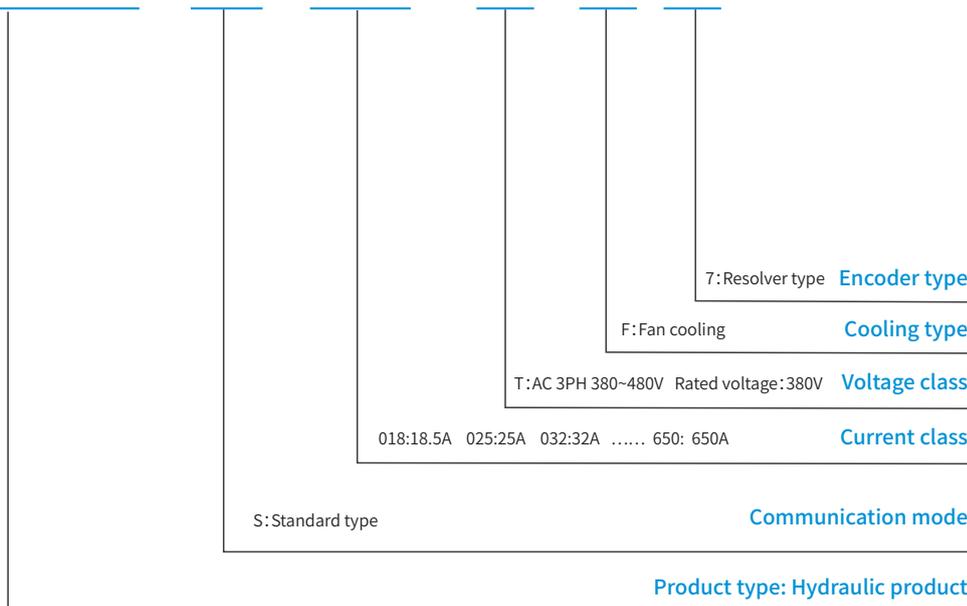
Forging presses



Die-casting machines

Model description

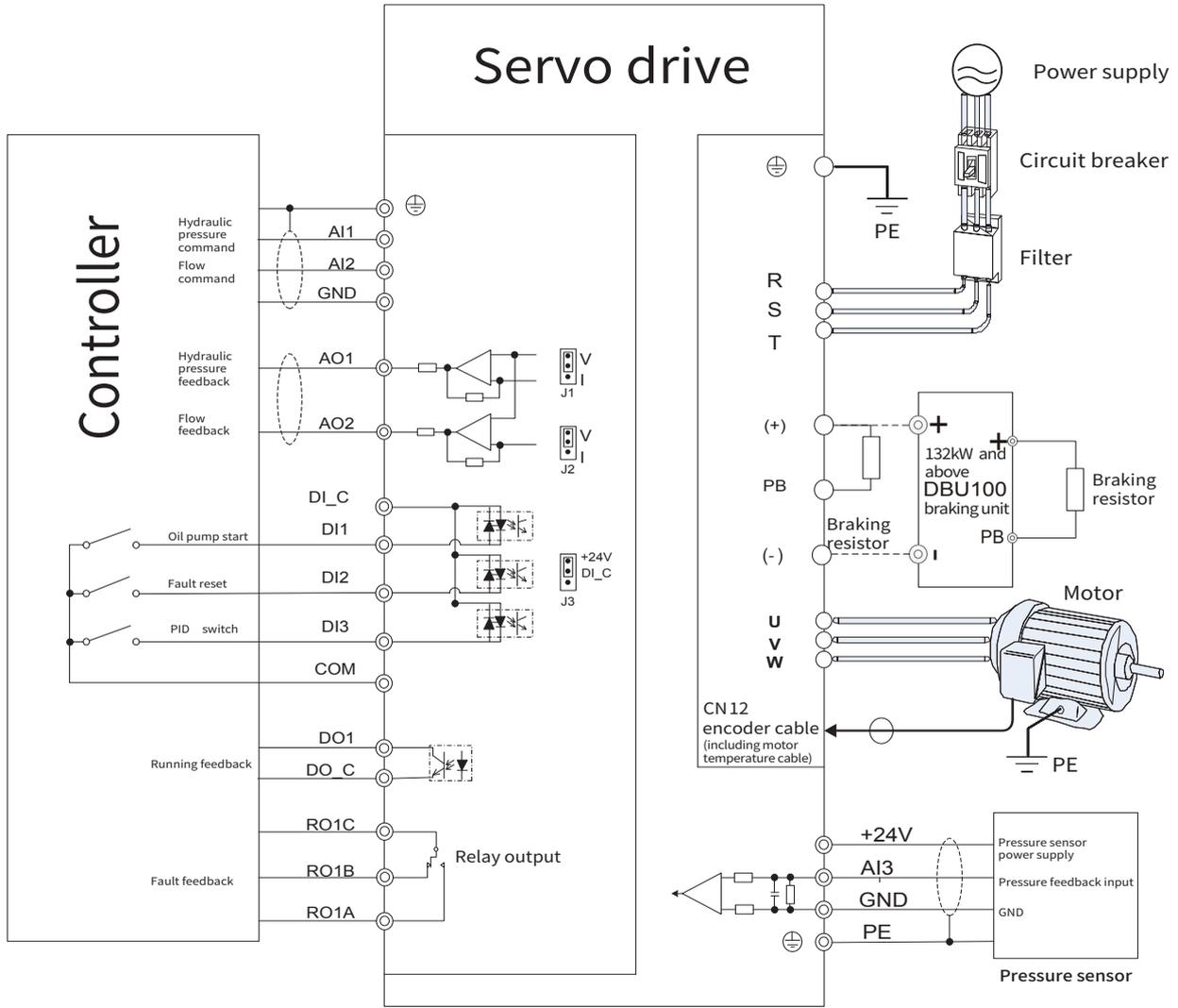
MH860C – S – 025 – T – F – 7



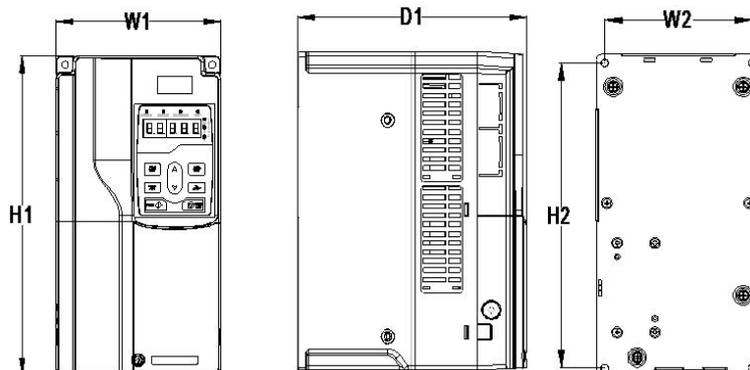
Drive specifications

Drive model	Applicable motor capacity (kW)	Rated output current (A)	Rated input current (A)	Weight (kg)	Drive model	Applicable motor capacity (kW)	Rated output current (A)	Rated input current (A)	Weight (kg)
MH860C-S018TF7	7.5	18.5	25	5.02	MH860C-S215TF7	110	215	225	45
MH860C-S025TF7	11	25	32	5.08	MH860C-S260TF7	132	260	265	78
MH860C-S032TF7	15	32	40	6.36	MH860C-S305TF7	160	305	310	78
MH860C-S038TF7	18.5	38	47	6.46	MH860C-S340TF7	185	340	345	122
MH860C-S045TF7	22	45	56	8.7	MH860C-S380TF7	200	380	385	122
MH860C-S060TF7	30	60	70	13.98	MH860C-S425TF7	220	425	430	122
MH860C-S075TF7	37	75	80	14.15	MH860C-S480TF7	250	480	460	124
MH860C-S092TF7	45	92	94	21.44	MH860C-S530TF7	280	530	500	124
MH860C-S115TF7	55	115	128	22.05	MH860C-S600TF7	315	600	580	124
MH860C-S150TF7	75	150	160	26.79	MH860C-S650TF7	355	650	625	175
MH860C-S180TF7	90	180	190	45	MH860C-S720TF7	400	715	720	175

Typical wiring diagram



Installation dimensions

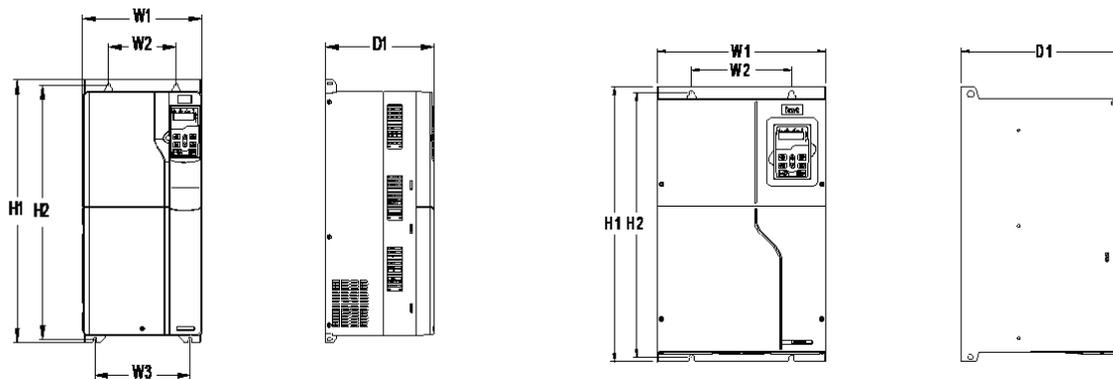


Dimensions for MH860C-S018TF7 ~ S075TF7 (7.5-37kW)

Drive model	Outline dimensions			Mounting hole distance			Mounting hole diameter(mm)	Fixing screw
	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)	D2 (mm)		
MH860C-S018TF7	145	280	203	268	130	/	Ø 6	M5
MH860C-S025TF7								
MH860C-S032TF7	169	320	210	308	154	/	Ø 6	M5
MH860C-S038TF7								
MH860C-S045TF7	200	341	208	328.6	185	/	Ø 6	M5
MH860C-S060TF7	250	400	222	380	230	/	Ø 6	M5
MH860C-S075TF7								

(unit: mm)

Wall-mounting dimensions for MH860C-S018TF7 ~ S075TF7 (7.5-37kW)



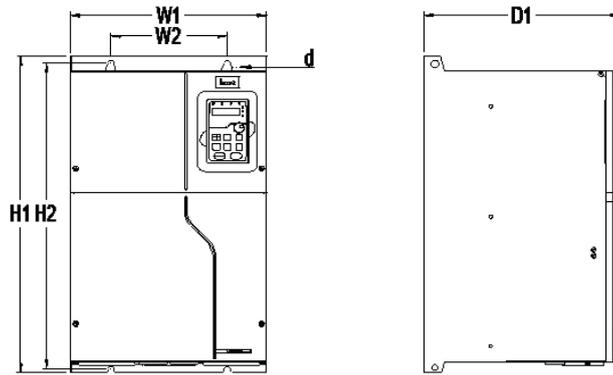
Dimensions for MH860C-S092TF7 ~ S150TF7 (45-75kW)

Dimensions for MH860C-S180TF7 ~ S215TF7 (90-110kW)

Drive model	Outline dimensions			Mounting hole distance			Mounting hole diameter (mm)	Fixing screw
	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)	W3 (mm)		
MH860C-S092TF7	282	560	257	542	160	226	Ø 9	M8
MH860C-S115TF7								
MH860C-S150TF7								
MH860C-S180TF7	338	554	330	534	200	/	Ø 9.5	M8
MH860C-S215TF7								

(unit: mm)

Wall-mounting dimensions for MH860C-S092TF7 ~ S215TF7 (45-110kW)

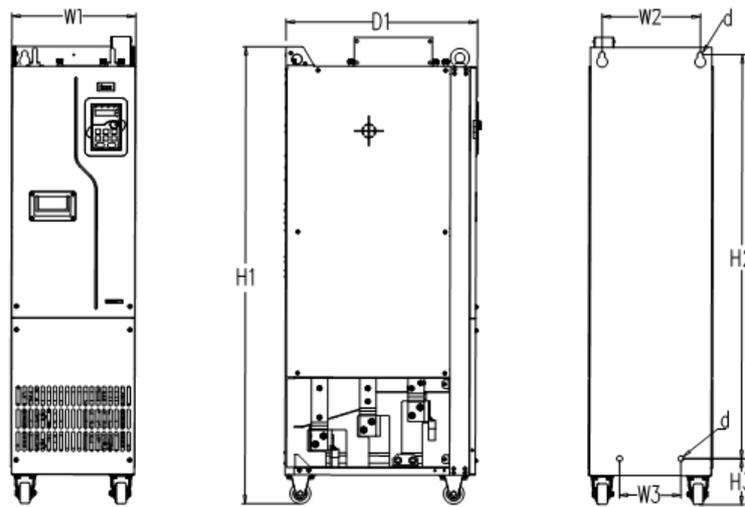


Dimensions for MH860C-S260TF7~ S305TF7 (132-160kW)

Drive model	Outline dimensions			Mounting hole distance		Mounting hole diameter (mm)	Fixing screw
	W1 (mm)	H1 (mm)	D1(mm)	W2 (mm)	H2 (mm)		
MH860C-S260TF7	338	825	398	260	800	Ø11	M10
MH860C-S305TF7							

(unit: mm)

Wall-mounting dimensions for MH860C-S260TF7~S305TF7 (132-160kW)

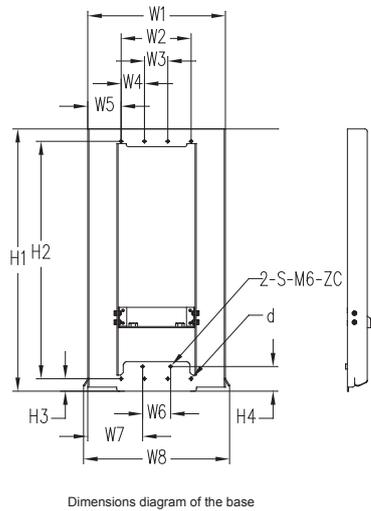


Floor-mounting dimensions for MH860C-S340TF7~ S650TF7 (185-355kW)

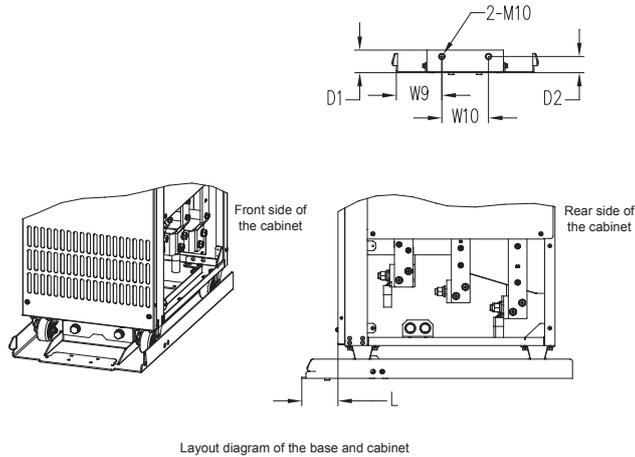
Drive model	Outline dimensions			Mounting hole distance				Mounting hole diameter (mm)	Fixing screw
	W1 (mm)	H1 (mm)	D1(mm)	H2(mm)	H3(mm)	W2(mm)	W3(mm)		
MH860C-S340TF7	330	1288	552	1150	122	225	185	Ø13	M10
MH860C-S380TF7									
MH860C-S425TF7									
MH860C-S480TF7									
MH860C-S530TF7									
MH860C-S600TF7	330	1398	552	1280	101	240	200	Ø14	M10
MH860C-S650TF7									
MH860C-S720TF7									

(unit: mm)

Floor-mounting dimensions for MH860C-S340TF7 ~ S650TF7 (185-355kW)



Note: When using floor mounting, an optional base mounting bracket can be used. For detailed dimensions and schematic diagrams, see Figure A-7 and the following table.



Drive model	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	H1	H2	H3	H4	D1	D2	d	Screw	L
MH860C-S340TF7~S720TF7	321	150	50	50	84.5	60	130.5	338.8	110.5	100	580	525	27.5	54.5	46	33.5	6	M5 self-tapping screw	25.5

Bottom bracket dimensions and installation dimensions for MH860C-S340TF7~S650TF7 (185-355kW)

(unit: mm)

Accessory table

Drive model	Braking unit	Recommended braking resistor	Input filter	Output filter	Input reactor	Output reactor
MH860C-S018TF7	Built-in	500W 40R*1	FLT-P04032L-B	FLT-L04032L-B	GDL-ACL0025-4CU	GDL-OCL0020-4CU
MH860C-S025TF7	Built-in	500W 40R*1			GDL-ACL0035-4AL	GDL-OCL0025-4CU
MH860C-S032TF7	Built-in	500W 40R*1	FLT-P04045L-B	FLT-L04045L-B	GDL-ACL0040-4AL	GDL-OCL0035-4AL
MH860C-S038TF7	Built-in	500W 40R*2			GDL-ACL0051-4AL	GDL-OCL0040-4AL
MH860C-S045TF7	Built-in	500W 40R*2	FLT-P04065L-B	FLT-L04065L-B	GDL-ACL0051-4AL	GDL-OCL0050-4AL
MH860C-S060TF7	Built-in	500W 40R*2			GDL-ACL0070-4AL	GDL-OCL0060-4AL
MH860C-S075TF7	Built-in	500W 40R*3	FLT-P04100L-B	FLT-L04100L-B	GDL-ACL0090-4AL	GDL-OCL0075-4AL
MH860C-S092TF7	Built-in	2000W 15R*1			GDL-ACL0110-4AL	GDL-OCL0092-4AL
MH860C-S115TF7	Built-in	2000W 15R*2	FLT-P04150L-B	FLT-L04150L-B	GDL-ACL0150-4AL	GDL-OCL0115-4AL
MH860C-S150TF7	Built-in	2000W 15R*2			GDL-ACL0150-4AL	GDL-OCL0150-4AL
MH860C-S180TF7	Built-in	2000W 15R*2	FLT-P04240L-B	FLT-L04240L-B	GDL-ACL0220-4AL	GDL-OCL0220-4AL
MH860C-S215TF7	Built-in	2000W 15R*3			GDL-ACL0220-4AL	GDL-OCL0220-4AL
MH860C-S260TF7	DBU100H-220-4	2000W 20R*3	FLT-P04400L-B	FLT-L04400L-B	GDL-ACL0265-4AL	GDL-OCL0265-4AL
MH860C-S305TF7	DBU100H-320-4	2000W 20R*4			GDL-ACL0330-4AL	GDL-OCL0330-4AL
MH860C-S340TF7		2000W 20R*5	GDL-ACL0390-4AL	GDL-OCL0400-4AL		
MH860C-S380TF7	DBU100H-400-4	2000W 20R*5	FLT-P04600L-B	FLT-L04600L-B	GDL-ACL0390-4AL	GDL-OCL0400-4AL
MH860C-S425TF7		2000W 20R*6			GDL-ACL0450-4AL	GDL-OCL0450-4AL
MH860C-S480TF7	DBU100H-320-4*2	2000W 20R*6	FLT-P04800L-B	FLT-L04800L-B	GDL-ACL0500-4AL	GDL-OCL0500-4AL
MH860C-S530TF7		2000W 20R*7			GDL-ACL0500-4AL	GDL-OCL0560-4AL
MH860C-S600TF7	DBU100H-320-4*2	2000W 20R*7	FLT-P04800L-B	FLT-L04800L-B	GDL-ACL0580-4AL	GDL-OCL0660-4AL
MH860C-S650TF7		2000W 20R*7			GDL-ACL0660-4AL	GDL-OCL0660-4AL

Expansion card

Part No.	Expansion card model	Description
11023-00149	EC-TX509C	PROFINET communication card
11023-00150	EC-TX508B	EtherCAT communication card
11023-00180	EC-IO504	Analog temperature measuring I/O expansion card

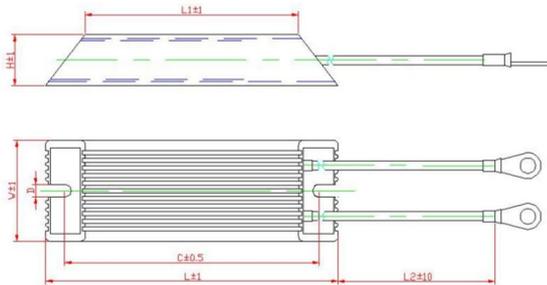
Parameter copying LCD keypad

Part No.	Model	Description
11022-00228	KEY-LCD01-ZY-860C	MH860C LCD keypad - multi-group parameter storage function

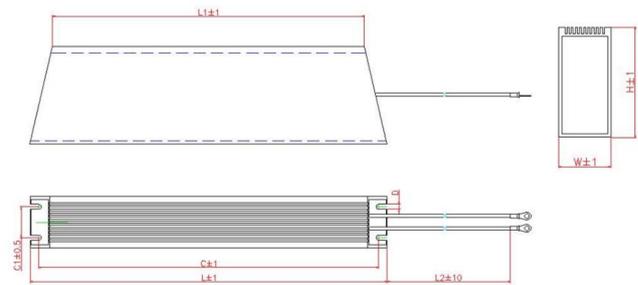
Braking resistor

Part No.	Resistor model	Description
20003-00430	RXLG-500W-40RJ	Aluminum-housed resistor; 500W; 40Ω; wire length: 800mm; terminal: RV2-6
20003-00431	RXLG-2000W-15RJ	Aluminum-housed resistor; 2000W; 15Ω; wire length: 2000mm; terminal: RV5.5-12
20003-00308	RXLG-2000W20RJ	Aluminum-housed resistor; 2000W; 20Ω; wire length: 500mm; terminal: RV2-6

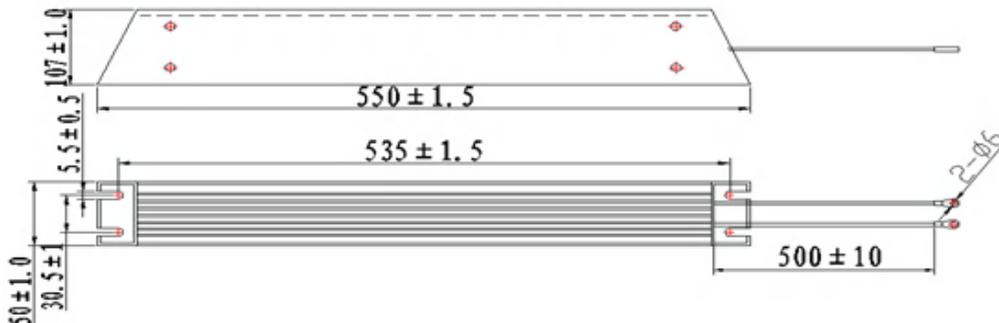
Braking resistor dimensions (unit: mm)



Model	L	L1	L2	W	H	C	D
RXLG-500W-40R J	335	290	800	60	30	315	5.6

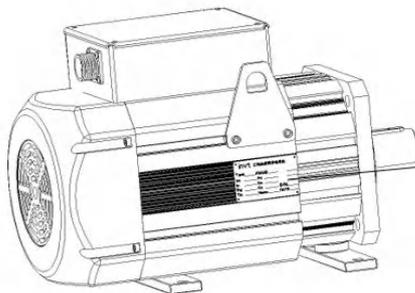


Model	L	W	H	L1	C	C1	D	L2
RXLG-2000W-15R J	550	50	107	510	530	30.5	5.5	2000



RXLG-2000W20RJ

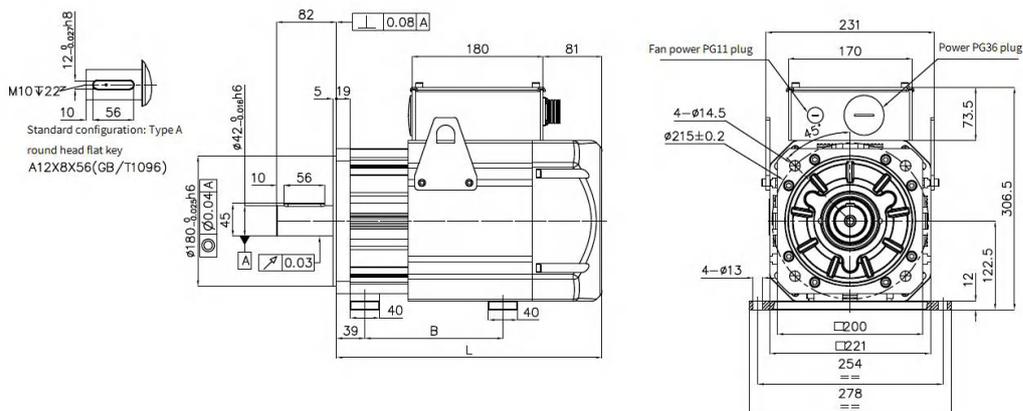
IMS20B motor



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AC SERVO MOTOR		Made in China	
Model	IMS20B-20M11D17C-4	Type	R7F
Un(V)	380	In(A)	19.5
Pn(kW)	10.7	Tn(N.m)	60
EFF.	93.74%	Kt(N.m/A)	R7F
Duty	S1	Motor Code	11101-01269
Wt(kg)	40.6	Jm(kg·cm ²)	73
S/N:			

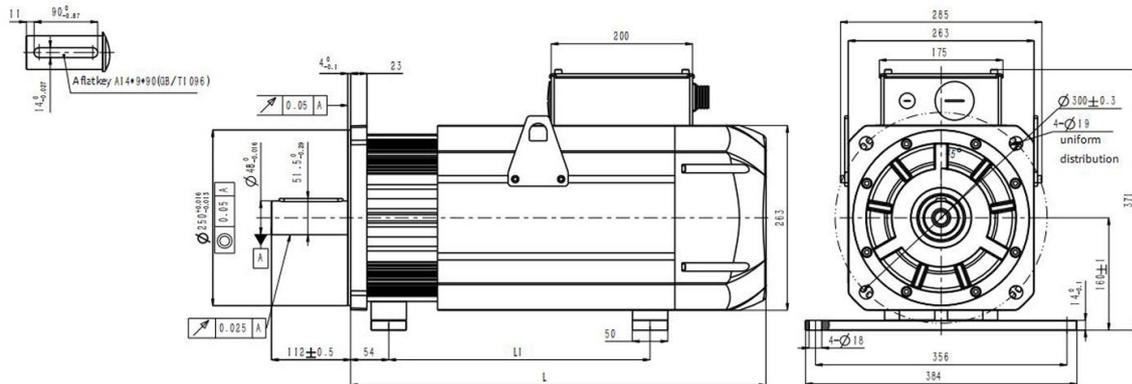
Product model IMS20B-20 M 11D 17C-4-R7 F-XXXX	
Product category IMS20B series servo motor	Internal vendor code
Frame size 20: 200 frame 26: 263 frame	Cooling method Natural cooling (default omitted) F: Forced air cooling Y: Oil cooling W: Water cooling
Inertia L: Low inertia M: Medium inertia H: High inertia	Optional part With oil seal but no brake (default omitted) 1: Without oil seal or brake 2: With oil seal and permanent magnet brake 3: Without oil seal but with permanent magnet brake 4: With oil seal and electromagnetic brake 5: Without oil seal but with electromagnetic brake
Rated power Composed of base number (digits) * multiplier (letters) A: ×1 B: ×10 C: ×100 D: ×1000 Eg: 40B: 0.4kW 10C: 1kW	Encoder type P9: 23-bit multi-turn absolute photoelectric encoder M4: 17-bit multi-turn absolute magnetic encoder R7: 12-bit rotary transformer
Rated speed Composed of base number (digits) * multiplier (letters) A: ×1 B: ×10 C: ×100 D: ×1000 E: ×10000 Eg: 30C: 3000rpm	
Voltage class 2: 200V 4: 380V	

200-frame motor dimensions



Model	B	L	Model	B	L
IMS20B-20M80C20C	165	337	IMS20B-20M24D20C	270	449
IMS20B-20M71C17C	165	337	IMS20B-20M21D17C	270	449
IMS20B-20M63C15C	165	337	IMS20B-20M19D15C	270	449
IMS20B-20M12D20C	190	365	IMS20B-20M27D20C	300	477
IMS20B-20M11D17C	190	365	IMS20B-20M25D17C	300	477
IMS20B-20M94C15C	190	365	IMS20B-20M22D15C	300	477
IMS20B-20M17D20C	220	393	IMS20B-20M32D20C	340	505
IMS20B-20M14D17C	220	393	IMS20B-20M29D17C	340	505
IMS20B-20M13D15C	220	393	IMS20B-20M25D15C	340	505
IMS20B-20M20D20C	230	421	IMS20B-20M36D20C	360	553
IMS20B-20M18D17C	230	421	IMS20B-20M32D17C	360	553
IMS20B-20M16D15C	230	421	IMS20B-20M28D15C	360	553

263-frame motor dimensions



Model	L1	L	Model	L1	L
IMS20B 26M28D15C	255	508	IMS20B 26M47D15C	400	628
IMS20B 26M32D17C	255	508	IMS20B 26M53D17C	400	628
IMS20B 26M37D20C	255	508	IMS20B 26M58D20C	400	628
IMS20B 26M35D15C	300	548	IMS20B 26M53D15C	440	668
IMS20B 26M39D17C	300	548	IMS20B 26M61D17C	440	668
IMS20B 26M45D20C	300	548	IMS20B 26M65D20C	440	668
IMS20B 26M41D15C	370	588	IMS20B 26M60D15C	480	708
IMS20B 26M46D17C	370	588	IMS20B 26M68D17C	480	708
IMS20B 26M50D20C	370	588	IMS20B 26M74D20C	480	708

200-frame motor parameters

Model	IMS20B-20M					
	63C15C	94C15C	13D15C	16D15C	19D15C	22D15C
Rated voltage (V)	380					
Rated speed (rpm)	1500	1500	1500	1500	1500	1500
Rated power (kW)	6.3	9.4	12.6	15.7	18.9	22
Rated frequency (Hz)	100	100	100	100	100	100
Rated current (A)	12.4	17.1	22.5	27.9	33.7	38.6
Rated torque (N · m)	40	60	80	100	120	140
Peak current (A)	33.4	45.2	59.5	72.7	89.1	100.7
Peak torque at 0.5 times the rated speed (N · m)	100	150	200	250	300	350
Max. speed (rpm)	2500	2500	2500	2500	2500	2500
Peak torque at rated speed (N · m)	66	120	163	186	250	289
Torque constant (N · m/A)	3.23	3.51	3.56	3.58	3.56	3.63
Line resistance (Ω)	2.192	1.197	0.814	0.607	0.445	0.384
Back EMF constant (V/krpm)	233	238	243	233	238	240
Rotation inertia (kg · cm ²)	52	73	94	115	135	156
Motor weight (kg)	35.2	40.6	46	51.5	56.8	62.3
Fan specifications	Type	Centrifugal fan				
	Rated power (W)	50/64				
	Rated voltage (V AC)	220				
	Rated frequency(Hz)	50/60				
	Rated current (A)	0.22/0.28				

Model		IMS20B-20M					
		25D15C	28D15C	71C17C	11D17C	14D17C	18D17C
Rated voltage (V)		380					
Rated speed (rpm)		1500	1500	1700	1700	1700	1700
Rated power (kW)		25.2	28.3	7.1	10.7	14.2	17.8
Rated frequency (Hz)		100	100	113.3	113.3	113.3	113.3
Rated current (A)		44.6	49.2	13.1	19.5	26.1	31
Rated torque (N · m)		160	180	40	60	80	100
Peak current (A)		117.9	130	34.6	52	69	86
Peak torque at 0.5 times the rated speed (N · m)		400	450	100	150	200	250
Max. speed (rpm)		2500	2500	2700	2700	2700	2700
Peak torque at rated speed (N · m)		350	365	66	120	163	215
Torque constant (N · m/A)		3.59	3.66	3.05	3.08	3.07	3.23
Line resistance (Ω)		0.317	0.295	1.694	0.932	0.584	0.446
Back EMF constant (V/krpm)		243	252	243	205	205	210
Rotation inertia (kg · cm ²)		177	196	52	73	94	115
Motor weight (kg)		67.7	73.1	35.2	40.6	46	51.5
Fan specifications	Type	Centrifugal fan					
	Rated power (W)	50/64					
	Rated voltage (V AC)	220					
	Rated frequency(Hz)	50/60					
	Rated current (A)	0.22/0.28					

Model		IMS20B-20M					
		21D17C	25D17C	29D17C	32D17C	80C20C	12D20C
Rated voltage (V)		380					
Rated speed (rpm)		1700	1700	1700	1700	2000	2000
Rated power (kW)		21.4	24.9	28.5	32	8	12.2
Rated frequency (Hz)		113.3	113.3	113.3	113.3	133.3	133.3
Rated current (A)		38.5	44.8	51.4	57.4	14.4	21.6
Rated torque (N · m)		120	140	160	180	38.2	58.1
Peak current (A)		103	114.2	136	146.9	38.1	57.1
Peak torque at 0.5 times the rated speed (N · m)		300	350	400	450	95.5	145.3
Max. speed (rpm)		2700	2700	2700	2700	3000	3000
Peak torque at rated speed (N · m)		250	300	350	365	66	120
Torque constant (N · m/A)		3.12	3.13	3.11	3.14	2.65	2.69
Line resistance (Ω)		0.346	0.289	0.227	0.205	1.294	0.701
Back EMF constant (V/krpm)		206	207	205	208	177	182
Rotation inertia (kg · cm ²)		135	156	177	196	52	73
Motor weight (kg)		56.8	62.3	67.7	73.1	35.2	40.6
Fan specifications	Type	Centrifugal fan					
	Rated power (W)	50/64					
	Rated voltage (V AC)	220					
	Rated frequency(Hz)	50/60					
	Rated current (A)	0.22/0.28					

Model		IMS20B-20M					
		17D20C	20D20C	24D20C	27D20C	32D20C	36D20C
Rated voltage (V)		380					
Rated speed (rpm)		2000	2000	2000	2000	2000	2000
Rated power (kW)		16.8	20	24.1	27.4	31.6	35.6
Rated frequency (Hz)		133.3	133.3	133.3	133.3	133.3	133.3
Rated current (A)		29.5	34.5	41.7	48.6	55.7	62.2
Rated torque (N · m)		80	95.5	115.3	130.9	150.5	169.7
Peak current (A)		80	90	110	125	139	154
Peak torque at 0.5 times the rated speed (N · m)		200	238.8	288.3	327.3	376.3	424.3
Max. speed (rpm)		3000	3000	3000	3000	3000	3000
Peak torque at rated speed (N · m)		163	202	261	264	330	365
Torque constant (N · m/A)		2.71	2.77	2.76	2.69	2.70	2.73
Line resistance (Ω)		0.483	0.353	0.260	0.207	0.189	0.168
Back EMF constant (V/krpm)		187	187	182	176	187	186
Rotation inertia (kg · cm ²)		94	115	135	156	177	196
Motor weight (kg)		46	51.5	56.8	62.3	67.7	73.1
Fan specifications	Type	Centrifugal fan					
	Rated power (W)	50/64					
	Rated voltage (V AC)	220					
	Rated frequency(Hz)	50/60					
	Rated current (A)	0.22/0.28					

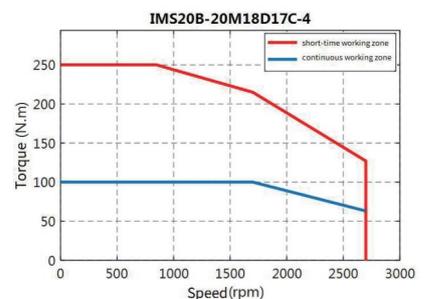
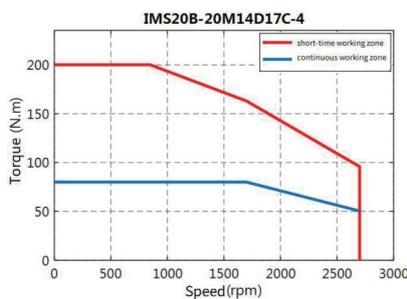
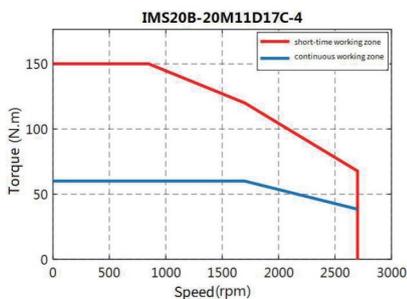
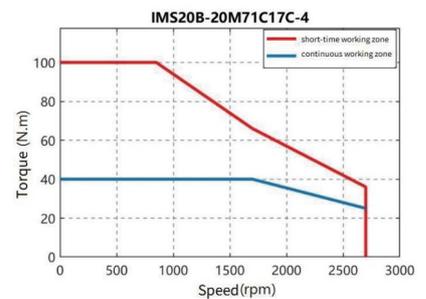
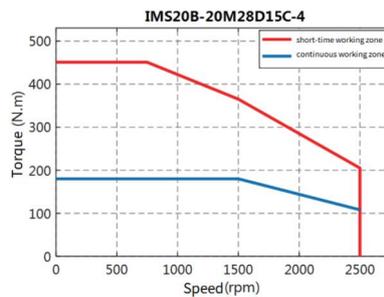
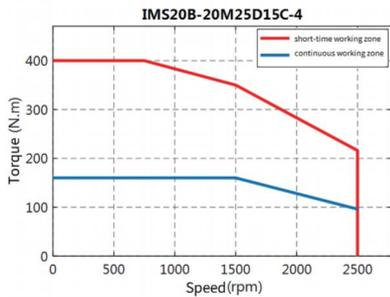
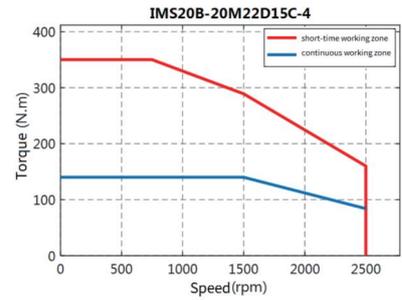
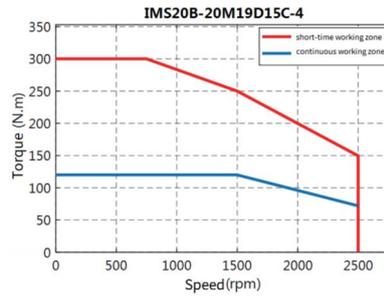
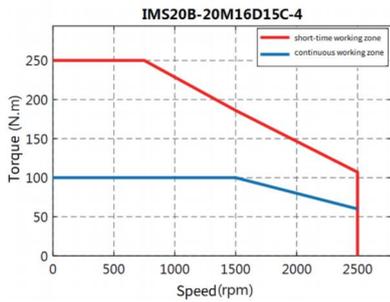
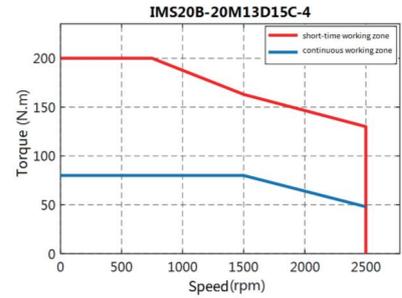
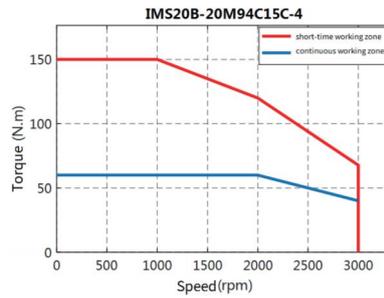
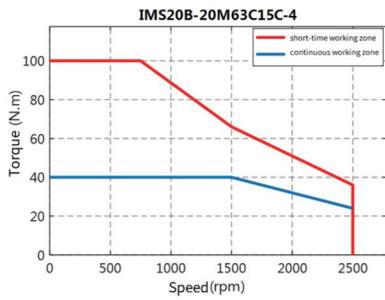
263-frame motor parameters

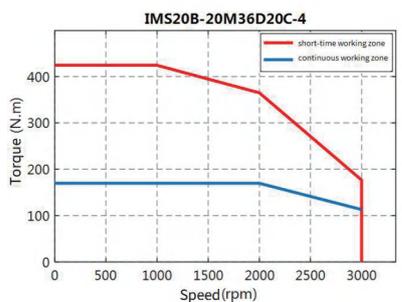
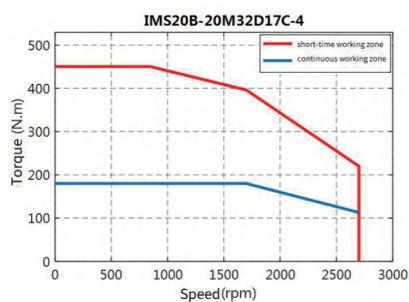
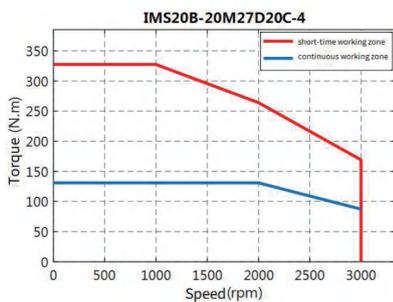
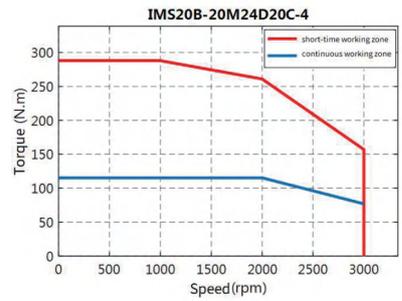
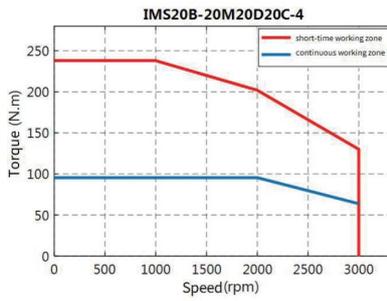
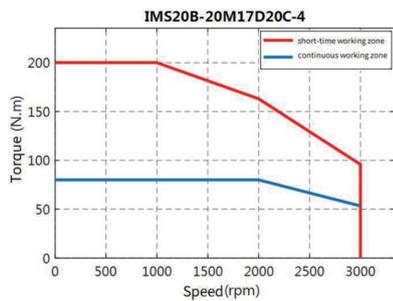
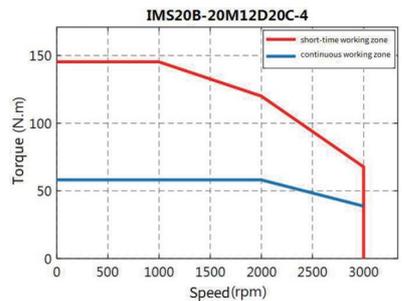
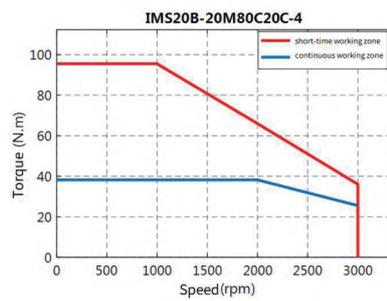
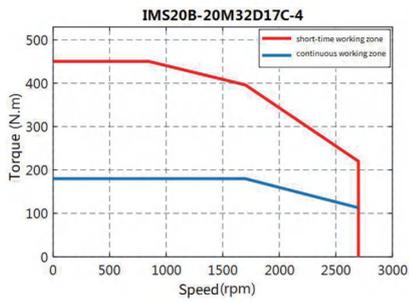
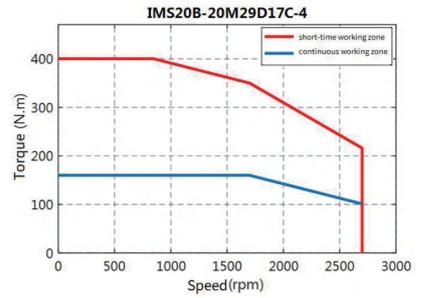
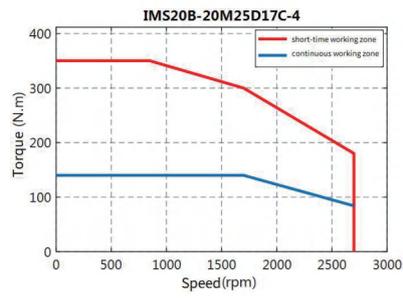
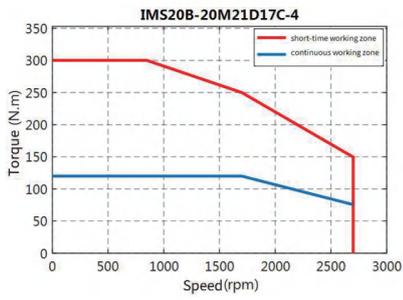
Model		IMS20B 26M					
		28D15C	35D15C	41D15C	47D15C	53D15C	60D15C
Rated voltage (V)		380					
Rated speed (rpm)		1500	1500	1500	1500	1500	1500
Rated power (kW)		28	34.6	41	47	53.4	60
Rated frequency (Hz)		100	100	100	100	100	100
Rated current (A)		49.5	60.4	71.2	79.3	89.4	100
Rated torque (N · m)		180	221	260.5	300	340	380
Peak current (A)		141	183.5	202	225	254	284
Peak torque at 0.5 times the rated speed (N · m)		450	538.7	651.3	750	850	950
Max. speed (rpm)		2500	2500	2500	2500	2500	2500
Peak torque at rated speed (N · m)		335.4	346.3	471.6	514.6	585.8	711.3
Torque constant (N · m/A)		3.64	3.66	3.66	3.78	3.8	3.8
Line resistance (Ω)		0.206	0.202	0.152	0.138	0.12	0.1
Back EMF constant (V/krpm)		232.4	224.3	232.1	225.2	245.1	243.7
Rotation inertia (kg · cm ²)		242	297	351	406	461	515
Motor weight (kg)		82	93	104	115	126	137
Fan specifications	Type	AC centrifugal fan					
	Rated power (W)	135					
	Rated voltage (V AC)	230					
	Rated frequency(Hz)	50					
	Rated current (A)	0.5					

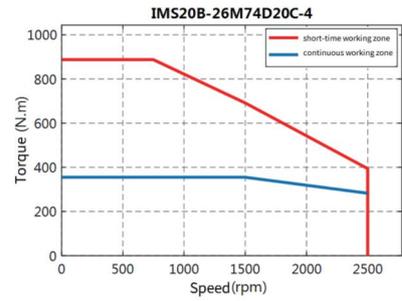
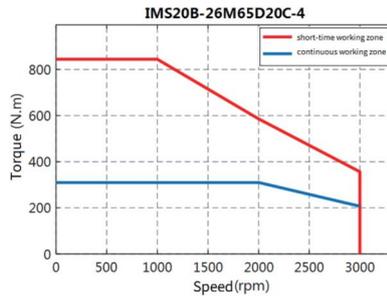
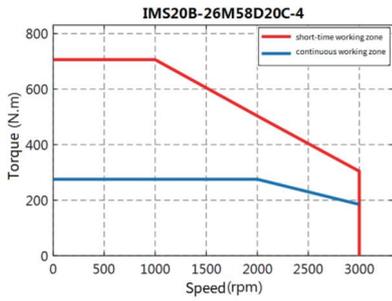
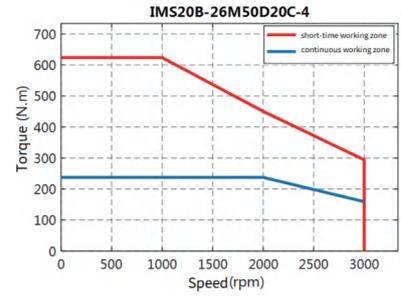
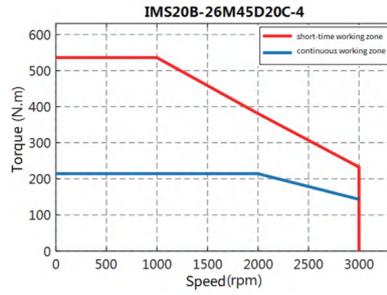
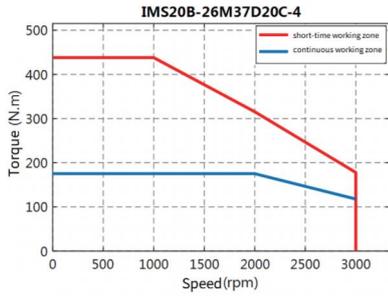
Model		IMS20B 26M					
		32D17C	39D17C	46D17C	53D17C	61D17C	68D17C
Rated voltage (V)		380					
Rated speed (rpm)		1700	1700	1700	1700	1700	1700
Rated power (kW)		32	39	46	53	60.5	67.6
Rated frequency (Hz)		113.3	113.3	113.3	113.3	113.3	113.3
Rated current (A)		58.1	66.8	81.3	93.9	101.9	118.8
Rated torque (N · m)		175.5	221	258.7	300	340	380
Peak current (A)		183.7	190	242.9	257	290	285.1
Peak torque at 0.5 times the rated speed (N · m)		466.7	552.5	671.1	775.5	850	950
Max. speed (rpm)		2700	2700	2700	2700	2700	2700
Peak torque at rated speed (N · m)		335.4	346.3	471.6	514.6	585.8	767
Torque constant (N · m/A)		3.17	3.31	3.18	3.19	3.34	3.2
Line resistance (Ω)		0.206	0.162	0.128	0.111	0.091	0.078
Back EMF constant (V/krpm)		196.2	212.8	202.9	210.9	214.5	203.2
Rotation inertia (kg · cm ²)		242	297	351	406	461	515
Motor weight (kg)		82	93	104	115	126	137
Fan specifications	Type	AC centrifugal fan					
	Rated power (W)	135					
	Rated voltage (V AC)	230					
	Rated frequency(Hz)	50					
	Rated current (A)	0.5					

Model		IMS20B 26M					
		37D20C	45D20C	50D20C	58D20C	65D20C	74D20C
Rated voltage (V)		380					
Rated speed (rpm)		2000	2000	2000	2000	2000	2000
Rated power (kW)		37	45	49.8	58	65	74
Rated frequency (Hz)		133.3	133.3	133.3	133.3	133.3	133.3
Rated current (A)		65.1	81.2	82.5	99.7	113	127.7
Rated torque (N · m)		175.2	214	237.7	275.6	310	355
Peak current (A)		185	230	234	253.4	297.3	319.3
Peak torque at 0.5 times the rated speed (N · m)		438	536.7	623.8	706.3	844.3	887.5
Max. speed (rpm)		3000	3000	3000	3000	3000	3000
Peak torque at rated speed (N · m)		335.4	390.4	433.5	503.6	585.8	691.3
Torque constant (N · m/A)		2.69	2.64	2.88	2.76	2.74	2.78
Line resistance (Ω)		0.141	0.111	0.103	0.085	0.717	0.051
Back EMF constant (V/krpm)		170.2	167.9	181.1	185	180.6	174.1
Rotation inertia (kg · cm ²)		242	297	351	406	461	515
Motor weight (kg)		82	93	104	115	126	137
Fan specifications	Type	AC centrifugal fan					
	Rated power (W)	135					
	Rated voltage (V AC)	230					
	Rated frequency(Hz)	50					
	Rated current (A)	0.5					

200-frame motor external characteristic curve







IMS20B 200-/263-frame terminal and junction box

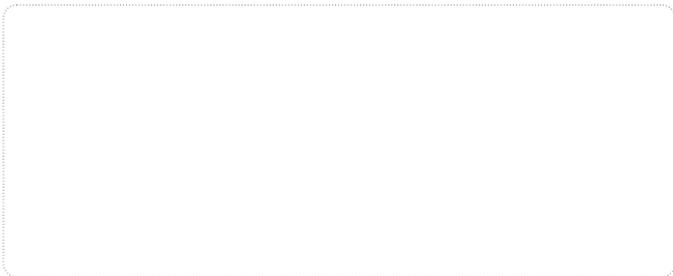
Encoder terminal outline diagram	Pin No.	12-bit resolver
<p>15-Pin Xinfeng YD28J15Z aviation connector</p>	1	PE
	2	Ref+
	3	Ref-
	4	Cos-
	5	Cos+
	6	Sin+
	7	Sin-
	8	KTY84-130+
	9	KTY84-130-

Junction box outline diagram	No.	Component name
	1	Fan capacitor
	2	M4 hex socket screw
	3	Motor outlet hole (Avoid dropping small parts or foreign objects)
	4	YD28 aviation connector
	5	2-M5 hex socket screw
	6	M8 (M6) connection junction box and housing/grounding mark
	7	UWV power line M8 bolts
	8	PG36 plug
	9	PG11 plug
	10	220V fan power wiring terminals

Encoder cable specifications

No.	Cable type	Cable length (m)	Part No.	Cable model	Remarks
1	Resolver encoder cable	3	67001-04189	DAEL-08-03-BB0(T)-07A0	The temperature sensor line of the IMS20B series motor is in the resolver line, and the IMS20A series motor needs to be connected to the temperature sensor line separately. For details, see the motor wiring definition
2	Resolver encoder cable	5	67001-04190	DAEL-08-05-BB0(T)-07A0	
3	Resolver encoder cable	10	67001-04191	DAEL-08-10-BB0(T)-07A0	
4	Resolver encoder cable	15	67001-04192	DAEL-08-15-BB0(T)-07A0	
5	Resolver encoder cable	20	67001-04193	DAEL-08-20-BB0(T)-07A0	
6	Resolver encoder cable	25	67001-04194	DAEL-08-25-BB0(T)-07A0	
7	Resolver encoder cable	30	67001-04195	DAEL-08-30-BB0(T)-07A0	

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