



SHENZHEN GUANHONG AUTOMATION CO.,LTD

PRODUCT BROCHURE SERVO MOTOR



ТОВ «КОМПЛЕКТ ЧПУ»

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COMPANY PROFILE

ShenZhen GuanHong Automation Co.,LTD(short name SZGH, was established on November 19, 2013) is one of the leading Robotic&CNC Automation company in China, SZGH' products have been in working with a wide variety of CNC machinery and automatic processing equipment with high performance and good precision stably. We have now established areliable structure , our experienced engineers and technicians areable to provide professional consultancy and offer you most suitable CNC application solution. Besides, our products all have passed and got the European safety standards- CE certification.

Over the years, SZGH has gradually shifted from the CNC industry to the research and development of industrial robots, focusing on the research and development of core technologies.

SZGH was awarded as New high-tech enterprise in China since 2018, which rely on Technical Center force to do support, efficient, strict quality management team to guide, software and hardware facilities, first-class service.

There are many agents around the world, such as USA, Romania, Turkey, Russia, Egypt, Morocco, Moldova etc.

Our tenet is Customer First!



SZGH has a strong technical force and has gathered top domestic technical talents. With strong comprehensive strength, we provide efficient and professional CNC systems and related product solutions for our clients. During this period, we obtained more than 100 patents and won many domestic awards.



CONTENTS

Motor Model Naming Method

General Purpose Incremental Servo Motor:

Power range: 0.05KW~7.5KW

Rated voltage: AC220V/380V

Encoder configuration: Incremental encoder.

Design scheme: New electromagnetic design scheme, lower temperature, small motor inertia, better performance.

Application fields: Machining center, metal carving and milling, advanced woodworking engraving, advanced CNC lathes, CNC machine tools, automation, high-end electronic equipment and other fields.

Absolute Encoder Servo Motor:

Power range: 0.05KW~7.5KW

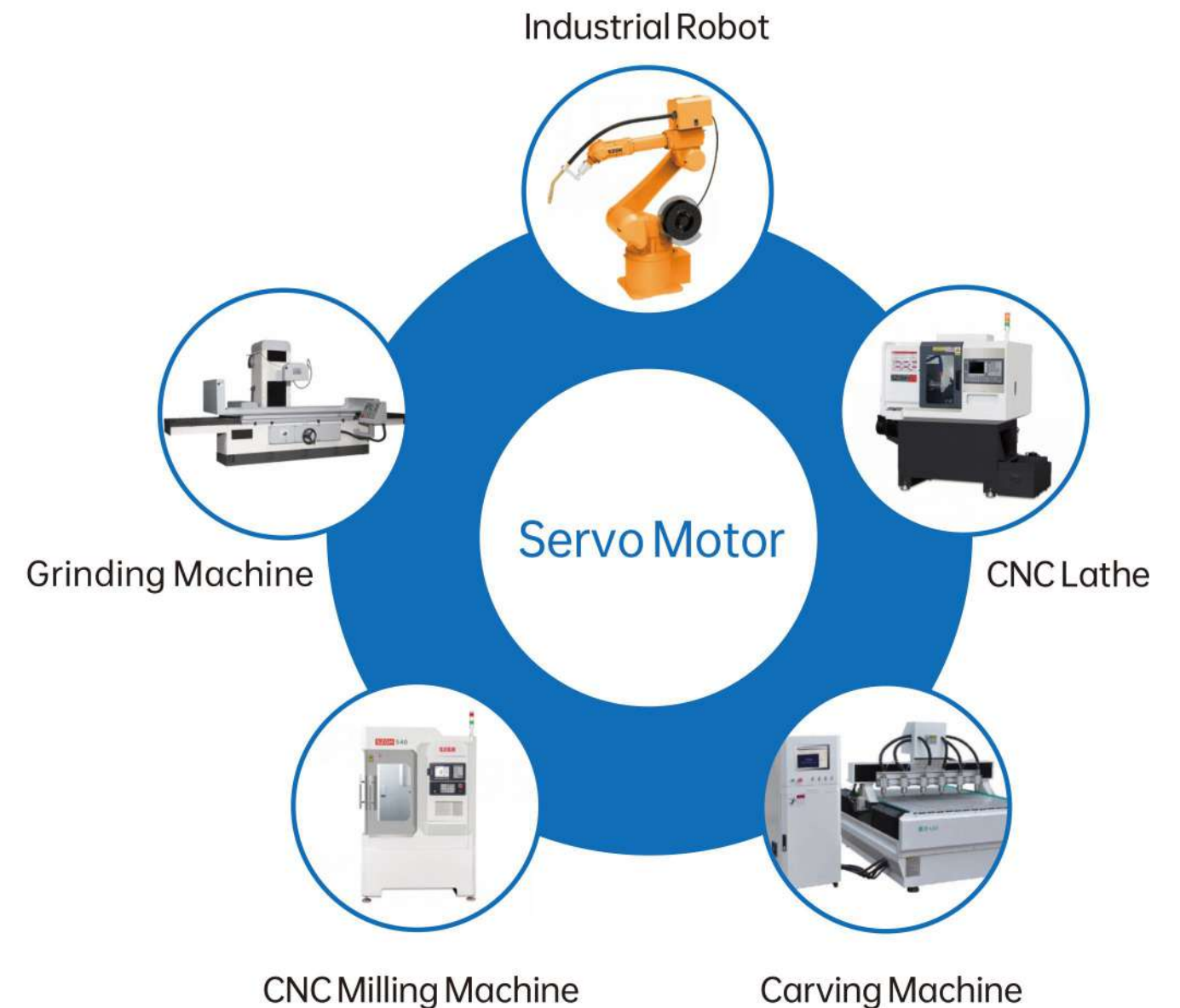
Rated voltage: AC220V/380V

Encoder configuration: Absolute encoder.

Design scheme: Adopt new technology, compact structure, short body, small size.

Application fields: Joint robot, high-end electronic equipment and CNC engraving and milling etc.

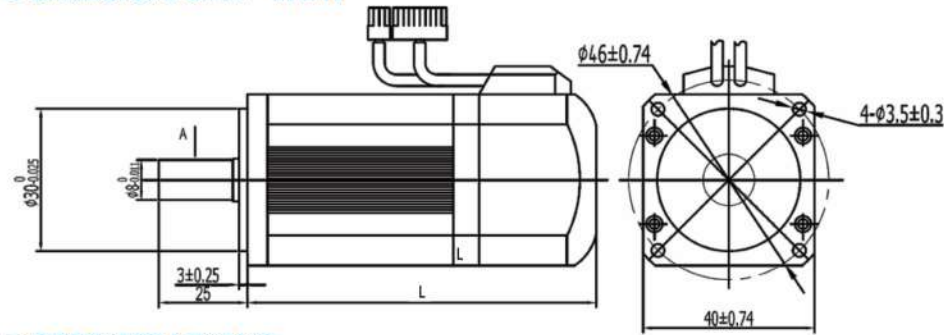
SERVO MOTOR APPLICATIONS



40 SERIES SERVO MOTORS



⊙ DIMESION:UNIT=mm



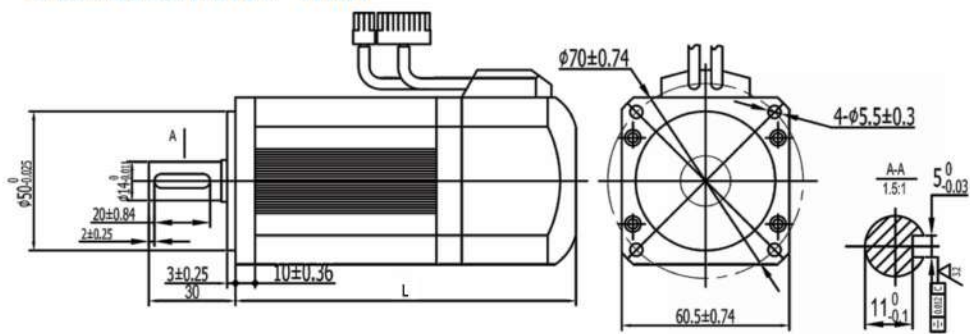
⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-04005D	SZGH-04010D	SZGH-04005D	SZGH-04010D
Rated Power(KW)	0.05	0.1	Motor Length(MM)	75
Rated Voltage(V)	220	220	Brake Motor(/T)Length	109
Rated Current(A)	0.4	0.6	Diameter of Axle(MM)	8
Rated Speed(RPM)	3000	3000	Weight(KG)	0.5
Rated Torque(N.m.)	0.16	0.32		
Peak Torque(N.m.)	0.32	0.64		
Rotor Inertia(KG.M²x10⁻⁴)	0.025	0.051		
Encoder Resolution	Increment Type	2500(PPR)	2500(PPR)	
	Absolute Type	23bit	23bit	

60 SERIES SERVO MOTORS



⊙ DIMESION:UNIT=mm



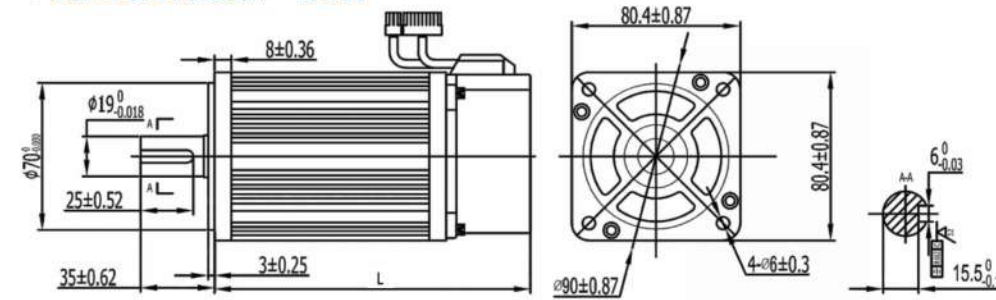
⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-06020DC	SZGH-06040DC	SZGH-06060DC	SZGH-06020DC	SZGH-06040DC	SZGH-06060DC
Rated Power(KW)	0.2	0.4	0.6	Motor Length(MM)	116	169
Rated Voltage(V)	220	220	220	Brake Motor(/T)Length	154	207
Rated Current(A)	1.2	2.8	3.5	Diameter of Axle(MM)	14	14
Rated Speed(RPM)	3000	3000	3000	Weight(KG)	1.16	2.07
Rated Torque(N.m.)	0.637	1.27	1.91			
Peak Torque(N.m.)	1.9	3.9	5.73			
Rotor Inertia(KG.M²x10⁻⁴)	0.175	0.29	0.39			
Encoder Resolution	Increment Type	2500(PPR)	2500(PPR)	2500(PPR)		
	Absolute Type	23bit	23bit	23bit		

80 SERIES SERVO MOTORS



⊙ DIMESION:UNIT=mm

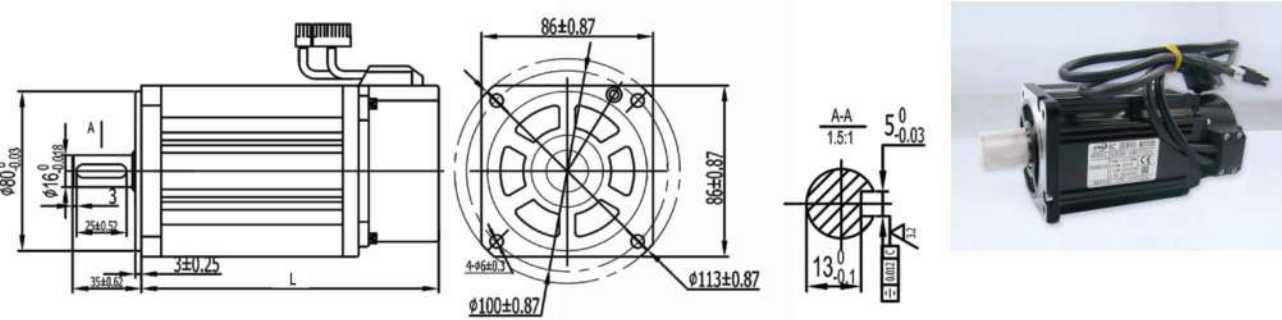


⊙ SPECIFICATIONS

MOTOR MODEL		SZGH-08075DC							SZGH-08075BC							
Rated Power(KW)		0.75							0.75							
Rated Voltage(V)		220							220							
Rated Current(A)		3							3							
Rated Speed(RPM)		3000							2000							
Rated Torque(N.m.)		2.4							3.5							
Peak Torque(N.m.)		7.1							10.5							
Peak Current(A)		9							9							
Voltage Constant(V/1000r/min)		48							71							
Torque coefficient(N.m/A)		0.8							1.17							
Rotor Inertia(KG.M²)		1.82x10 ⁻⁴							2.63x10 ⁻⁴							
Line-Line Resistance(Ω)		2.88							3.65							
Line-Line Inductance(mH)		6.4							8.8							
Electrical Time-Constant(ms)		2.22							2.4							
Weight(KG)		2.9							3.9							
Motor Length(MM)		151							179							
Brake Motor(/T)Length		191							219							
Diameter of Axle(MM)		19							19							
Encoder Line Number		Increment Type 2500(PPR)							Absolute Type 23bit							
Insulation Class		ClassF														
Incremental Encoder Socket(15PIN)	Signal lead	5V	0V	B	Z-	U	Z	U-	A	V	W	V-	A-	B-	W-	PE
	Socket number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
Absolute Encoder Socket(7PIN)	Signal lead	E-		E+		SD-		0V		SD+		+5V		PE		
	Socket number	2		3		4		5		6		7		1		

90 SERIES SERVO MOTORS

⊙ DIMESION:UNIT=mm

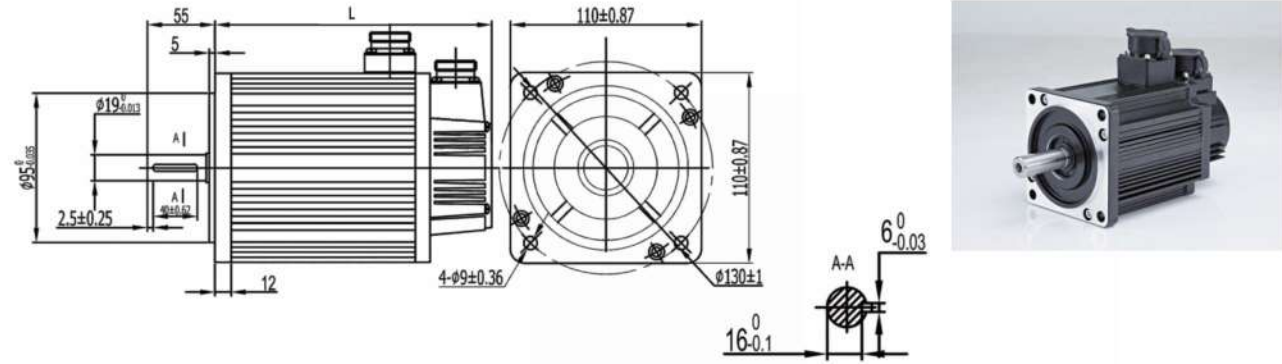


⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-09075DC	SZGH-09075BC	SZGH-09100CC
Rated Power(KW)	0.75	0.75	1.0
Rated Voltage(V)	220	220	220
Rated Current(A)	3	3	4
Rated Speed(RPM)	3000	2000	2500
Rated Torque(N.m.)	2.4	3.5	4
Peak Torque(N.m.)	7.1	10.5	12
Peak Current(A)	9	9	12
Voltage Constant(V/1000r/min)	51	67	60
Torque coefficient(N.m/A)	0.8	1.2	1.0
Rotor Inertia(KG.M²)	2.45x10 ⁻⁴	3.4x10 ⁻⁴	3.7x10 ⁻⁴
Line-Line Resistance(Ω)	3.2	4.4	2.69
Line-Line Inductance(mH)	7.0	9.7	6.21
Electrical Time-Constant(ms)	2.2	2.39	2.3
Weight(KG)	3.1	3.9	4.2
Motor Length(MM)	150	172	182
Brake Motor(/T)Length	198	220	230
Diameter of Axle(MM)	16	16	16
Encoder Line Number	Increment Type 2500(PPR) Absolute Type 23bit		
Insulation Class	ClassF		
Incremental Encoder Socket(15PIN)	Signal lead	5V 0V B Z- U Z U- A V W V- A- B- W- PE	
	Socket number	2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	
Absolute Encoder Socket(7PIN)	Signal lead	E- E+ SD- 0V SD+ +5V PE	
	Socket number	2 3 4 5 6 7 1	

110 SERIES SERVO MOTORS

⊙ DIMESION:UNIT=mm

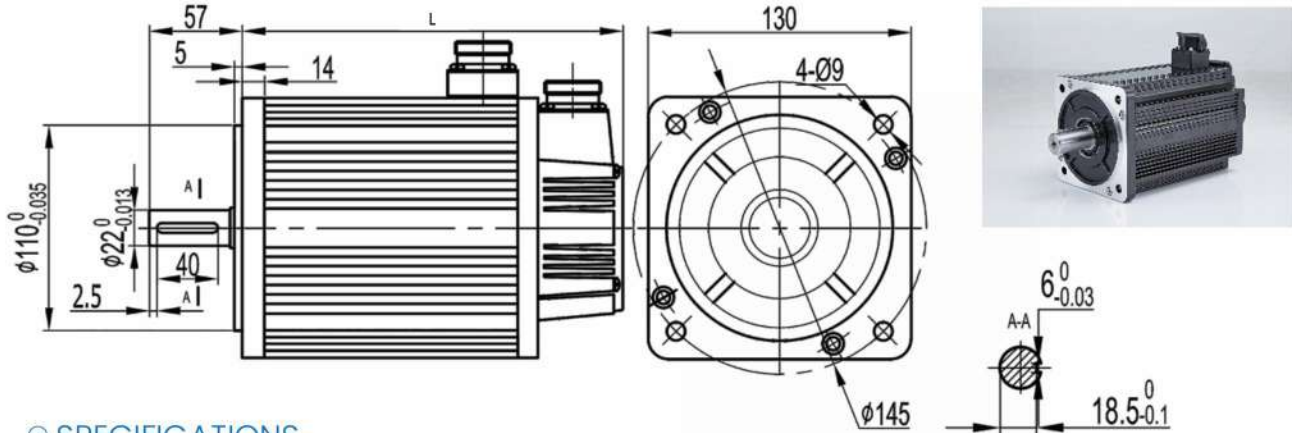


⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-11060DC	SZGH-11080BC	SZGH-11120DC	SZGH-11120BC	SZGH-11180DC
Rated Power(KW)	0.6	0.8	1.2	1.2	1.8
Rated Voltage(V)	220/380	220/380	220/380	220/380	220/380
Rated Current(A)	2.5	3.5	5.0	5.0	6.0
Rated Speed(RPM)	3000	2000	3000	2000	3000
Rated Torque(N.m.)	2	4	4	6	6
Peak Torque(N.m.)	6	12	12	12	18
Voltage Constant(V/1000r/min)	56	79	54	83	60
Torque coefficient(N.m/A)	0.8	1.14	0.8	1.3	1.0
Rotor Inertia(KG.M²)	0.31x10 ⁻³	0.54x10 ⁻³	0.54x10 ⁻³	0.76x10 ⁻³	0.76x10 ⁻³
Line-Line Resistance(Ω)	3.6	2.41	1.09	1.46	0.81
Line-Line Inductance(mH)	8.32	7.3	3.3	4.7	2.59
Electrical Time-Constant(ms)	2.3	3	3	3.2	3.2
Weight(KG)	4.5	6	6	7.9	7.9
Motor Length(MM)	159	189	189	219	219
Brake Motor(/T)Length	233	263	263	293	293
Diameter of Axle(MM)	19	19	19	19	19
Encoder Line Number	Increment Type 2500(PPR) Absolute Type 23bit				
Insulation Class	ClassF				
Incremental Encoder Socket(15PIN)	Signal lead	5V 0V A+ B+ Z+ A- B- Z- U+ V+ W+ U- V- W- PE			
	Socket number	2 3 4 5 6 7 8 9 10 11 12 13 14 15 1			
Absolute Encoder Socket(7PIN)	Signal lead	E- E+ SD- 0V SD+ +5V PE			
	Socket number	2 3 4 5 6 7 1			
Rated Torque(N.m.)	2	4	4	6	6

130 SERIES SERVO MOTORS

⊙ DIMENSION:UNIT =mm



⊙ SPECIFICATIONS

MOTOR MODEL		SZGH-13100CC				SZGH-13130CC				SZGH-13150CC				SZGH-13150AC			
Rated Power(KW)		1.0				1.3				1.5				1.5			
Rated Voltage(V)		220/380				220/380				220/380				220/380			
Rated Current(A)		4.0				5.0				6.0				6.0			
Rated Speed(RPM)		2500				2500				2500				1500			
Rated Torque(N.m.)		4				5				6				10			
Peak Torque(N.m.)		12				15				18				25			
Voltage Constant(V/1000r/min)		72				68				65				103			
Torque coefficient(N.m/A)		1.0				1.0				1.0				1.67			
Rotor Inertia(KG.M²)		0.85x10 ⁻³				1.06x10 ⁻³				1.26x10 ⁻³				1.94x10 ⁻³			
Line-Line Resistance(Ω)		2.76				1.84				1.21				1.5			
Line-Line Inductance(mH)		6.42				4.9				3.87				4.37			
Electrical Time-Constant(ms)		2.32				2.66				3.26				2.91			
Weight(KG)		6.2				6.6				7.4				11.5			
Motor Length(MM)		166				171				179				213			
Brake Motor(/T)Length		223				228				236				294			
Diameter of Axle(MM)		22				22				22				22			
Encoder Line Number						Increment Type 2500(PPR)				Absolute Type 23bit							
Insulation Class		ClassF															
Incremental Encoder Socket(15PIN)	Signal lead	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE	
	Socket number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	
Absolute Encoder Socket(7PIN)	Signal lead	E-		E+		SD-			0V		SD+		+5V		PE		
	Socket number	2		3		4			5		6		7		1		

130 SERIES SERVO MOTORS

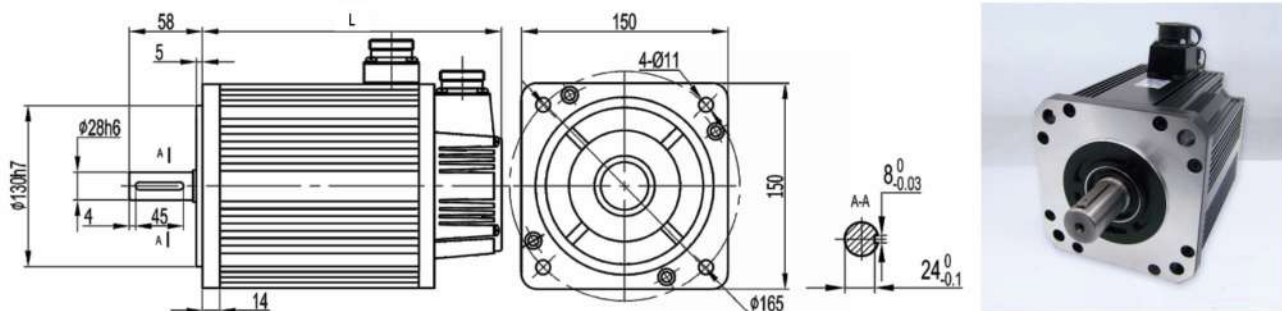
⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-13200BC	SZGH-13200CC	SZGH-13230AC	SZGH-13260CC	SZGH-13300CC	SZGH-13380CC										
Rated Power(KW)	2.0	2.0	2.3	2.6	3.0	3.8										
Rated Voltage(V)	220/380	220/ 380	220/380	220/380	220/380	220/380										
Rated Current(A)	7.8	7.5	9.5	10	11.7	13.5/10										
Rated Speed(RPM)	2000	2500	1500	2500	2000	2500										
Rated Torque(N.m.)	10	7.7	15	10	15	15										
Peak Torque(N.m.)	25	22	30	25	30	2.45										
Voltage Constant(V/1000r/min)	84	68	114	70	80	67										
Torque coefficient(N.m/A)	1.28	1.03	1.58	1.0	1.28	1.11										
Rotor Inertia(KG.M ²)	1.94x10 ⁻³	1.53x10 ⁻³	2.77x10 ⁻³	1.94x10 ⁻³	2.77x10 ⁻³	2.77x10 ⁻³										
Line-Line Resistance(Ω)	0.949	1.01	1.1	0.73	0.6	0.49										
Line-Line Inductance(mH)	3.2	2.94	4.45	2.45	2.24	1.68										
Electrical Time-Constant(ms)	3.4	2.91	4.05	3.36	3.73	3.43										
Weight(KG)	7	10	14.4	11.5	13.5	14.7										
Motor Length(MM)	213	192	241	209	231	231										
Brake Motor(/T)Length	294	249	322	290	312	312										
Diameter of Axle(MM)	22	22	22	22	22	22										
Encoder Line Number	Increment Type 2500(PPR) Absolute Type 23bit															
Insulation Class	ClassF															
Incremental Encoder Socket(15PIN)	Signal lead	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE
	Socket number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
Absolute Encoder Socket(7PIN)	Signal lead	E-	E+		SD-		0V		SD+		+5V		PE			
	Socket number	2	3		4		5		6		7		1			

150 SERIES SERVO MOTORS



⊙ DIMENSION:UNIT =mm



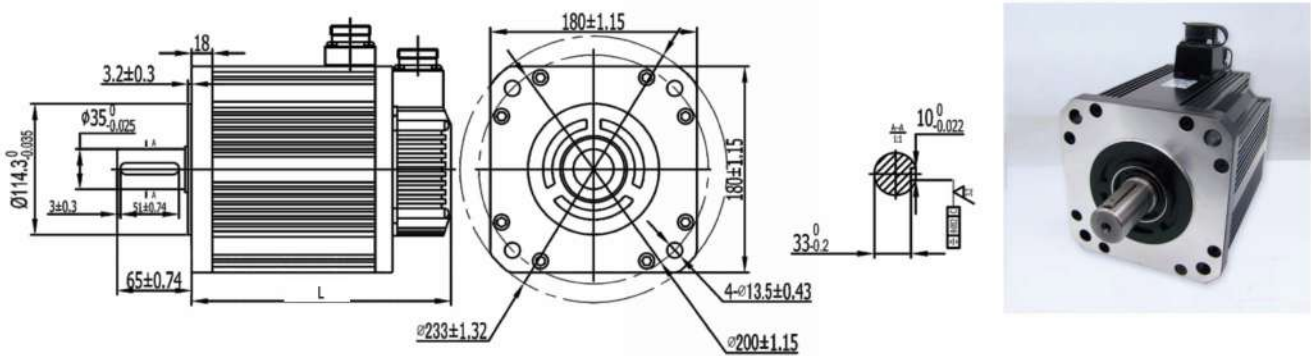
⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-15360BC	SZGH-15470BC
Rated Power(KW)	3.6	4.7
Rated Voltage(V)	220/380	220/380
Rated Current(A)	17/9.5	21/12
Rated Speed(RPM)	2000	2000
Rated Torque(N.m.)	18	23
Peak Torque(N.m.)	36	46
Voltage Constant(V/1000r/min)	71	72
Torque coefficient(N.m/A)	1.05	1.09
Rotor Inertia(KG.M ²)	4.6x10 ⁻⁵	5.8x10 ⁻⁵
Line-Line Resistance(Ω)	0.255	0.2
Line-Line Inductance(mH)	1.3	1.06
Electrical Time-Constant(ms)	5.1	5.3
Weight(KG)	17	21
Motor Length(MM)	248	248
Brake Motor(/T)Length	321	321
Diameter of Axle(MM)	28	28
Encoder Line Number	Increment Type 2500(PPR) Absolute Type 23bit	
Insulation Class	ClassF	
Incremental Encoder Socket(15PIN)	Signal lead	5V 0V A+ B+ Z+ A- B- Z- U+ V+ W+ U- V- W- PE
	Socket number	2 3 4 5 6 7 8 9 10 11 12 13 14 15 1
Absolute Encoder Socket(7PIN)	Signal lead	E- E+ SD- 0V SD+ +5V PE
	Socket number	2 3 4 5 6 7 1

180 SERIES SERVO MOTORS



⊙ DIMENSION:UNIT =mm



⊙ SPECIFICATIONS

MOTOR MODEL	SZGH-18270CC	SZGH-18300CC	SZGH-18450CC	SZGH-18290BC
Rated Power(KW)	2.7	3.0	4.5	2.9
Rated Voltage(V)	220/380	220/380	220/380	220/380
Rated Current(A)	10.5 6.5	12 7.5	16 9.5	12 7.5
Rated Speed(RPM)	1500	1500	2000	1000
Rated Torque(N.m.)	17.2	19	21.5	27
Peak Torque(N.m.)	43	47	53	67
Voltage Constant(V/1000r/min)	112 167	97 170	84 140	138 224
Torque coefficient(N.m/A)	1.64 2.65	1.58 2.5	1.34 2.26	2.25 3.6
Rotor Inertia(KG.M ²)	3.4 x10 ⁻³	3.8 x10 ⁻³	4.7 x10 ⁻³	6.1 x10 ⁻³
Line-Line Resistance(Ω)	0.7 1.47	0.4 1.23	0.24 0.71	0.48 1.37
Line-Line Inductance(mH)	3.5 7.8	2.42 7.3	1.45 4	3.26 8.6
Electrical Time-Constant(ms)	5 5.3	6 5.93	6 5.6	6.79 6.27
Weight(KG)	20	21	22	26
Motor Length(MM)	226	232	243	262
Brake Motor(/T)Length	298	304	315	334
Diameter of Axle(MM)	35	35	35	35
Encoder Line Number	Increment Type 2500(PPR) Absolute Type 23bit			
Insulation Class	ClassF			
Incremental Encoder Socket(15PIN)	Signal lead	5V 0V A+ B+ Z+ A- B- Z- U+ V+ W+ U- V- W- PE		
	Socket number	2 3 4 5 6 7 8 9 10 11 12 13 14 15 1		
Absolute Encoder Socket(7PIN)	Signal lead	E- E+ SD- 0V SD+ +5V PE		
	Socket number	2 3 4 5 6 7 1		

180 SERIES SERVO MOTORS

⦿ SPECIFICATIONS

MOTOR MODEL	SZGH-18370BC				SZGH-18430AC				SZGH-18550CC				SZGH-18750CC			
Rated Power(KW)	3.7				4.3				5.5				7.5			
Rated Voltage(V)	220/380				220/380				220/380				220/380			
Rated Current(A)	16	10			16	10			24	12			32	20		
Rated Speed(RPM)	1000				1500				1500				1500			
Rated Torque(N.m.)	35				27				35				48			
Peak Torque(N.m.)	70				67				70				96			
Voltage Constant(V/1000r/min)	134	223			103	172			90	181			94	156		
Torque coefficient(N.m/A)	1.69	2.7			2.2	3.5			1.45	2.9			1.5	2.4		
Rotor Inertia(KG.M²)	8.6×10 ⁻³				6.1×10 ⁻³				8.6×10 ⁻³				9.5×10 ⁻³			
Line-Line Resistance(Ω)	0.31	0.93			0.28	0.796			0.14	0.62			0.104	0.273		
Line-Line Inductance(mH)	2.11	5.86			1.74	4.83			1.0	4			0.77	2.14		
Electrical Time-Constant(ms)	6.8	6.3			6.2	6			7.14	6.45			7.4	7.8		
Weight(KG)	31				26				30.5				40			
Motor Length(MM)	292				262				292				346			
Brake Motor(/T)Length	364				334				364				418			
Diameter of Axle(MM)	35				35				35				35			
Encoder Line Number					Increment Type 2500(PPR)				Absolute Type 23bit							
Insulation Class					ClassF											
Incremental Encoder Socket(15PIN)	Signal lead	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE
	Socket number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
Absolute Encoder Socket(7PIN)	Signal lead	E-		E+		SD-		0V		SD+		+5V		PE		
	Socket number	2		3		4		5		6		7		1		

PROFESSIONAL TEAM



PRODUCT PHOTO

