



SHENZHEN GUANHONG AUTOMATION CO.,LTD

PRODUCT BROCHURE
SERVO MOTOR



ТОВ «КОМПЛЕКТ ЧПУ»

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Motor Model Naming Method

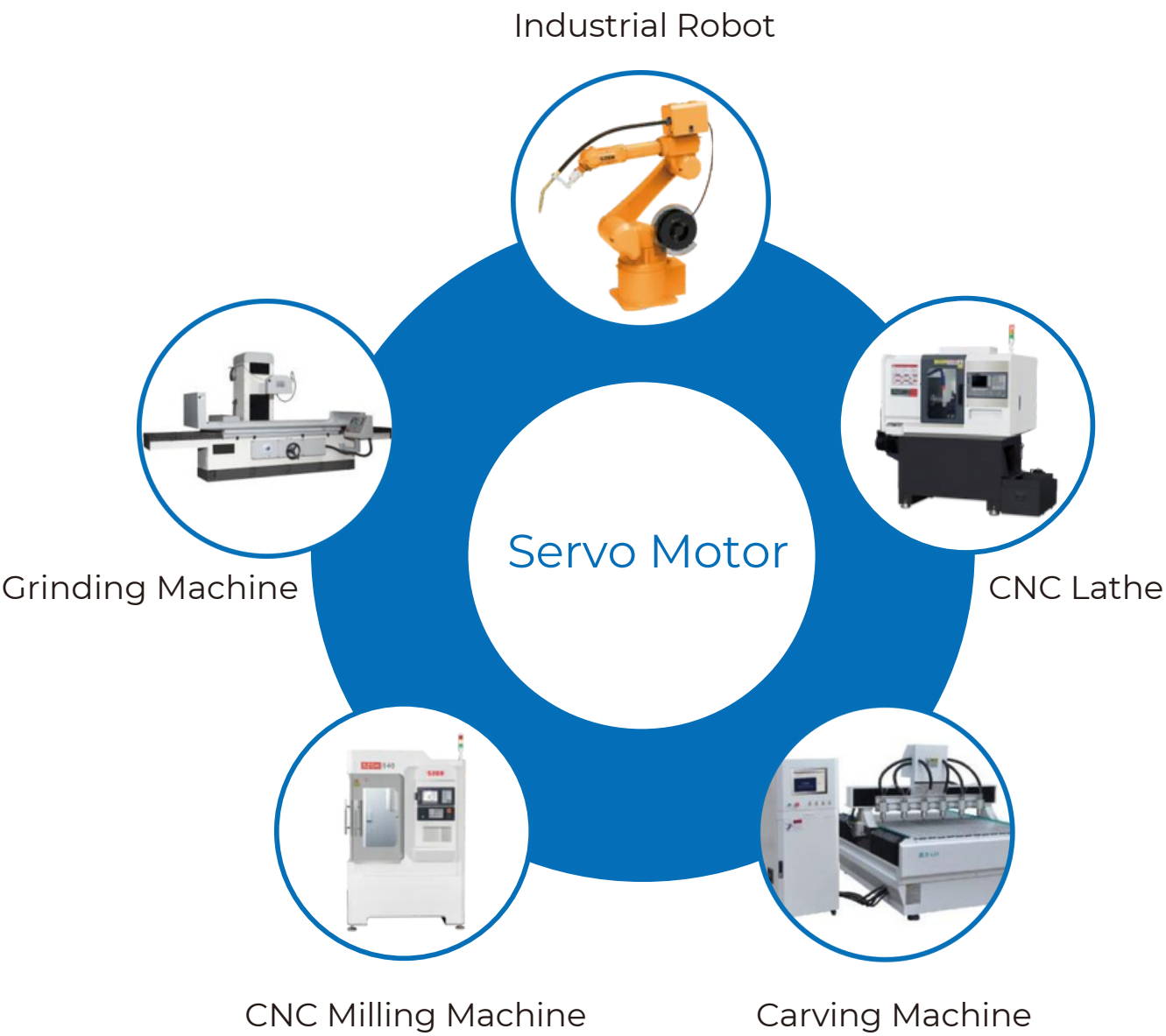
General Purpose Incremental Servo Motor:

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.

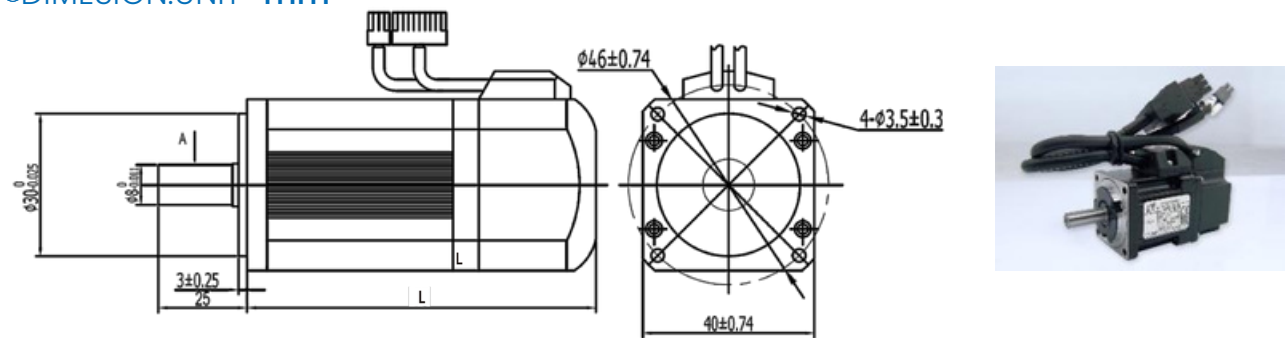
SERVO MOTOR APPLICATIONS



40 SERIES SERVO MOTORS



⊙DIMESION:UNIT=mm



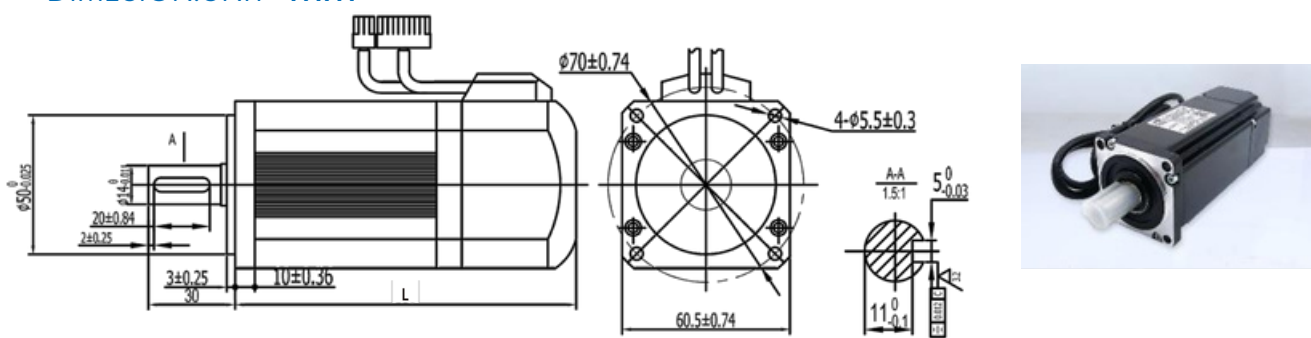
⊙SPECIFICATIONS

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)	0.4
Rated Torque(N.m.)		0.16	0.32	L No Holding Brake	75
Peak Torque(N.m.)		0.32	0.64	L With Permanent Magnet Lock	109
Rotor Inertia(KG.M²x10⁻⁴)		0.025	0.051	L With Electromagnetic Lock	124
Encoder Resolution	Increment Type	2500(PPR)	2500(PPR)		
	Absolute Type	23bit	23bit		

60 SERIES SERVO MOTORS



⊙DIMESION:UNIT=mm



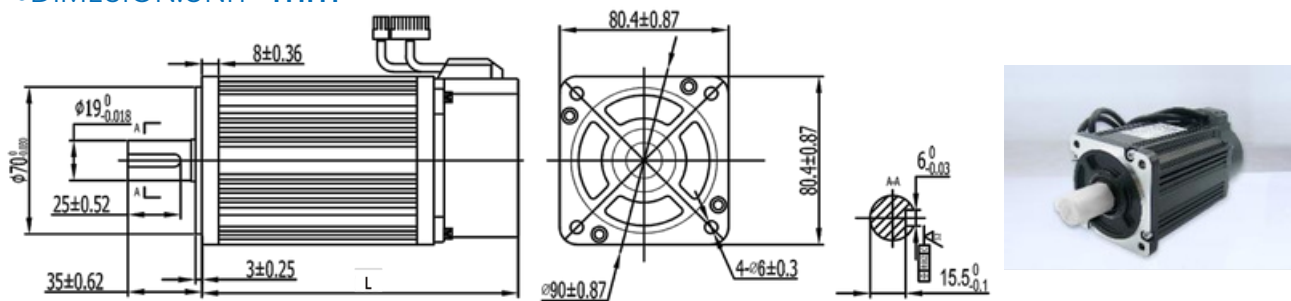
⊙SPECIFICATIONS

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	141
Rated Voltage(V)		220	220	220	Brake Motor(/T)Length	164	217
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.)		0.64	1.27	1.9	L No Holding Brake	116	169
Peak Torque(N.m.)		1.9	3.9	5.73	L With Permanent Magnet Lock	164	217
Rotor Inertia(KG.M²x10⁻⁴)		0.175	0.29	0.39	L With Electromagnetic Lock	154	207
Encoder Resolution	Increment Type	2500(PPR)	2500(PPR)	2500(PPR)			
	Absolute Type	23bit	23bit	23bit			

80 SERIES SERVO MOTORS



⊙DIMESION:UNIT=mm



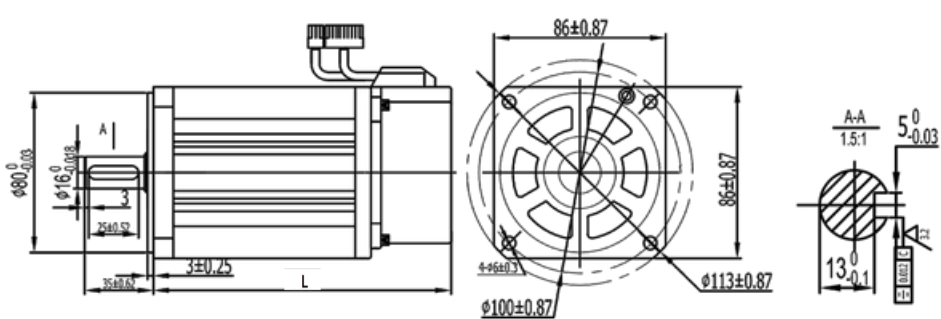
⊙SPECIFICATIONS

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 Type2500 (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
L No Holding Brake		151								179									
L With Permanent Magnet Lock		205								233									
L With Electromagnetic Lock		191								219									

90 SERIES SERVO MOTORS



⊙DIMESION:UNIT=mm



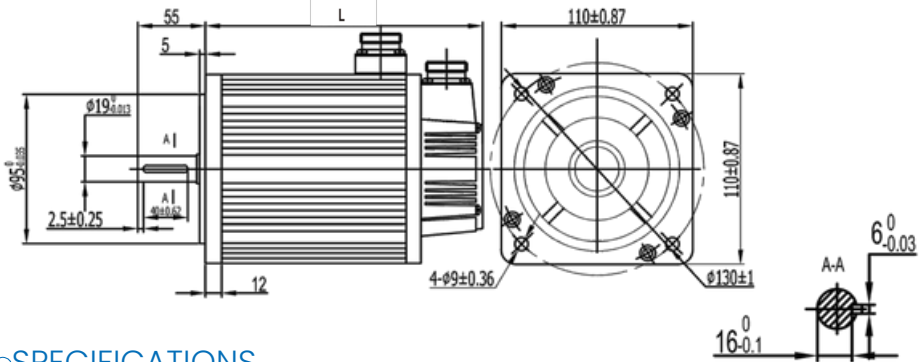
⊙SPECIFICATIONS

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 Type2500(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	
L No Holding Brake	150	172	182
L With Permanent Magnet Lock	207	229	239
L With Electromagnetic Lock	198	220	230

110 SERIES SERVO MOTORS



⊙DIMESION:UNIT=mm



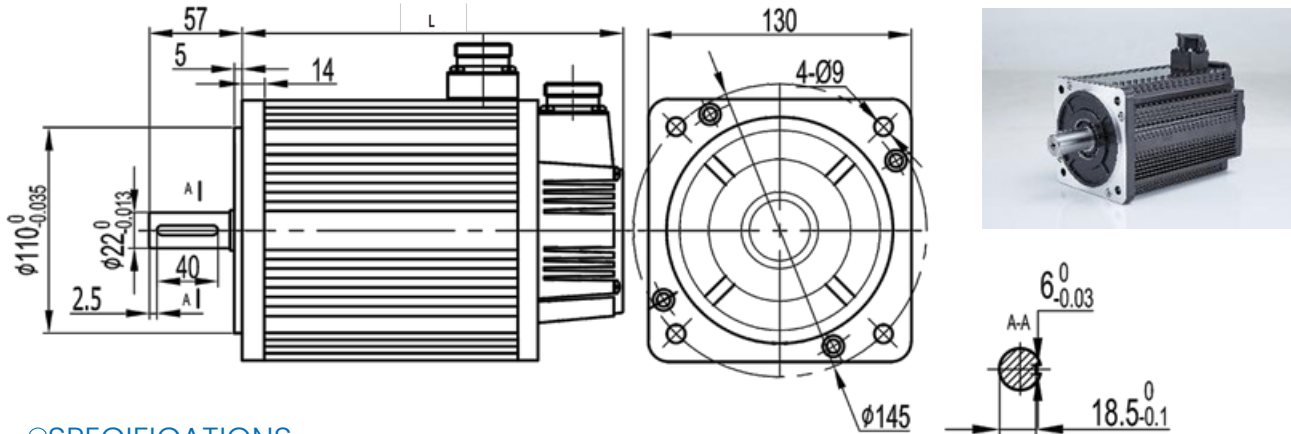
⊙SPECIFICATIONS

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 Type2500 (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
L No Holding Brake	159	189	189	219	219
L With Permanent Magnet Lock	215	245	245	275	275
L With Electromagnetic Lock	233	263	263	293	293

130 SERIES SERVO MOTORS



⦿DIMESION: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 Type2500 (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)	4				5				6				7.7			
L No Holding Brake	166				171				179				192			
L With Permanent Magnet Lock	236				241				249				262			
L With Electromagnetic Lock	223				228				236				249			

130 SERIES SERVO MOTORS



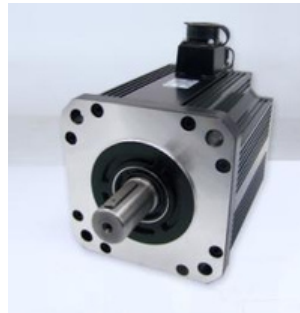
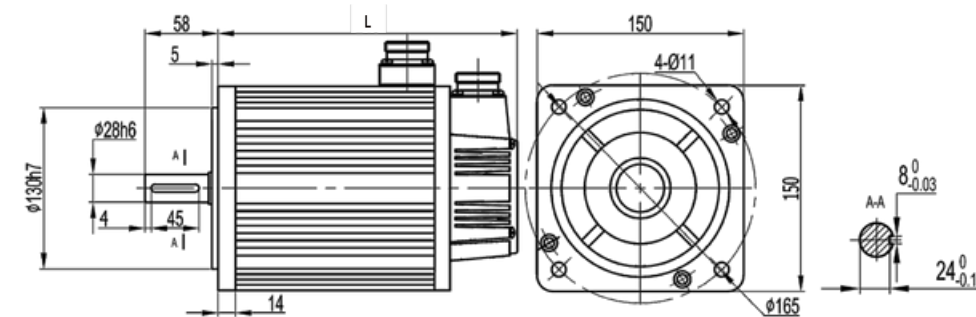
⦿SPECIFICATIONS

MOTOR MODEL		SZGH-13200CC				SZGH-13230AC				SZGH-13260CC				SZGH-13380CC			
Rated Power(KW)		2.0				2.3				2.6				3.8			
Rated Voltage(V)		220/380				220/380				220/380				220/380			
Rated Current(A)		7.5				9.5				10				13.5/10			
Rated Speed(RPM)		2500				1500				2500				2500			
Rated Torque(N.m.)		7.7				15				10				15			
Peak Torque(N.m.)		22				30				25				45			
Voltage Constant(V/1000r/min)		68				114				70				67			
Torque coefficient(N.m/A)		1.03				1.58				1.0				1.11			
Rotor Inertia(KG.M²)		1.53x10 ⁻³				2.77x10 ⁻³				1.94x10 ⁻³				2.77x10 ⁻³			
Line-Line Resistance(Ω)		1.01				1.1				0.73				0.49			
Line-Line Inductance(mH)		2.94				4.45				2.45				1.68			
Electrical Time-Constant(ms)		2.91				4.05				3.36				3.43			
Weight(KG)		10				14.4				11.5				14.7			
Motor Length(MM)		192				241				209				231			
Brake Motor(T)Length		249				322				290				312			
Diameter of Axle(MM)		22				22				22				22			
Encoder Line Number		Increment Type2500 (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.)		1000rpm		10 1500rpm		2500rpm						15 1500rpm		2500rpm			
L No Holding Brake		213				209				241				231			
L With Permanent Magnet Lock		283				279				311				301			
L With Electromagnetic Lock		294				290				322				312			

150 SERIES SERVO MOTORS



⊙ DIMENSION:UNIT=mm



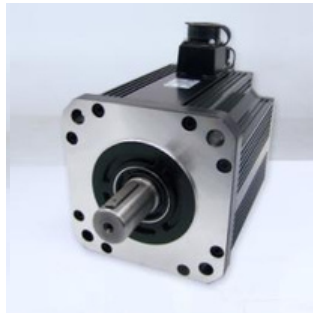
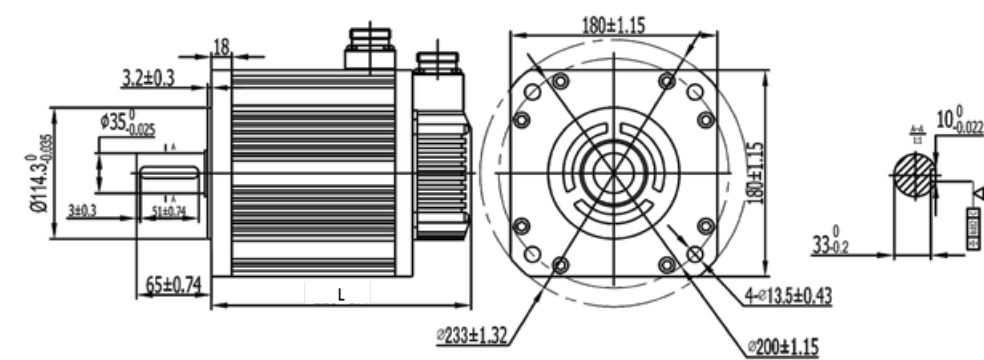
⦿ SPECIFICATIONS

MOTOR MODEL			SZGH-15360BC														
Rated Power(KW)			3.6														
Rated Voltage(V)			220/380														
Rated Current(A)			17/9.5														
Rated Speed(RPM)			2000														
Rated Torque(N.m.)			18														
Peak Torque(N.m.)			36														
Voltage Constant(V/1000r/min)			71														
Torque coefficient(N.m/A)			1.05														
Rotor Inertia(KG.M²)			4.6x10 ⁻³														
Line-Line Resistance(Ω)			0.255														
Line-Line Inductance(mH)			1.3														
Electrical Time-Constant(ms)			5.1														
Weight(KG)			17														
Motor Length(MM)			248														
Brake Motor(/T)Length			321														
Diameter of Axle(MM)			28														
Encoder Line Number			Increment Type2500 (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.)			18														
L No Holding Brake			248														
L With Electromagnetic Lock			321														

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.M²)		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 Type2500 (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.)		17.2				19				21.5				27			
L No Holding Brake		226				232				243				262			
L With Permanent Magnet Lock		308				314				325				344			
L With Electromagnetic Lock		298				304				315				334			

⦿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)	8.6x10 ⁻³				6.1x10 ⁻³				8.6x10 ⁻³				9.5x10 ⁻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 Type2500 (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.)	27				35				35				48				
L No Holding Brake	262				292				292				346				
L With Permanent Magnet Lock	344				382				382				436				
L With Electromagnetic Lock	334				364				364				418				