



WMST SERVO MOTORS



LB series
LBB series
HB series
HBB series
HBBP series

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ISO9001 ISO14001 OHSAS18001 CE CCC UL RoHS

LB Series

Frame Size (mm) : 80、110、130、150
Rated Torque (Nm) : 1.3~27
Rated Power (Kw) : 0.4~5.5
Rated Speed (rpm) : 1500、2000、2500、3000
Max. Speed (rpm) : /
Pole Pairs: 4
Moment of Inertia: Medium
Feedback component: Optional
Power-off Brake: Optional
Adapter drive voltage (VAC) : 220

LBB Series

Frame Size (mm) : 80、110、130、150
Rated Torque (Nm) : 1.3~19.1
Rated Power (Kw) : 0.4~3.0
Rated Speed (rpm) : 1500、2000、3000
Max. Speed (rpm) : 3000
Pole Pairs: 4
Moment of Inertia: Medium
Feedback component: Optional
Power-off Brake: Optional
Adapter drive voltage (VAC) : 220

HB Series

Frame Size (mm) : 110、130、150、180
Rated Torque (Nm) : 2~55
Rated Power (Kw) : 0.6~8.6
Rated Speed (rpm) : 1500、2000、2500、3000
Max. Speed (rpm) : /
Pole Pairs: 4
Moment of Inertia: Medium
Feedback component: Optional
Power-off Brake: Optional
Adapter drive voltage (VAC) : 380

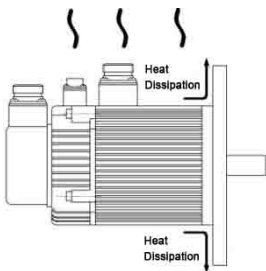
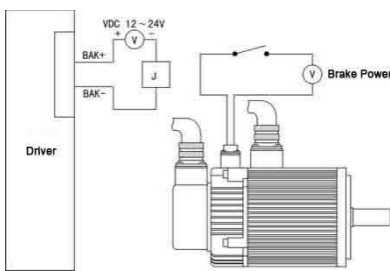
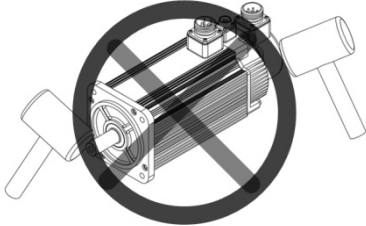
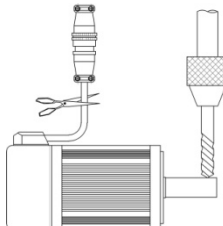
HBB Series

Frame Size (mm) : 110、130、150、180
Rated Torque (Nm) : 2.4~55
Rated Power (Kw) : 0.4~8.6
Rated Speed (rpm) : 1500、2000
Max. Speed (rpm) : 3000
Pole Pairs: 4
Moment of Inertia: Medium
Feedback component: Optional
Power-off Brake: Optional
Adapter drive voltage (VAC) : 380

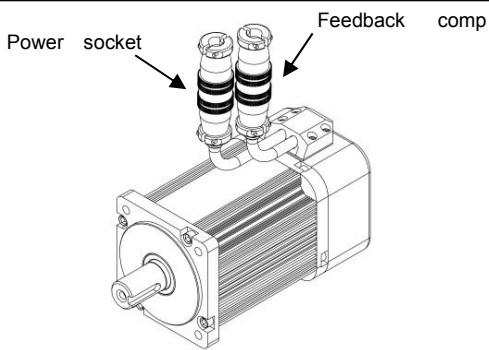
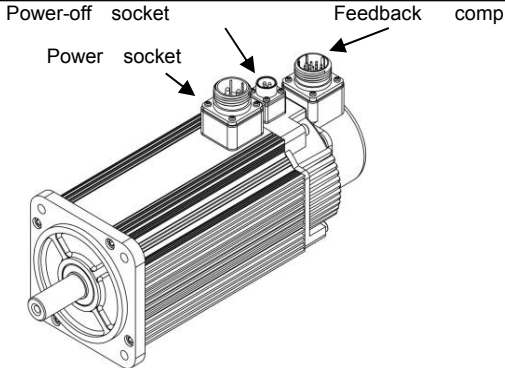
HBBP Series

Frame Size (mm) : 180
Rated Torque (Nm) : 27~70
Rated Power (Kw) : 5.5~11.7
Rated Speed (rpm) : 1600、2000
Max. Speed (rpm) : 2500
Pole Pairs: 4
Moment of Inertia: Medium
Feedback component: Optional
Power-off Brake: N/A
Adapter drive voltage (VAC) : 380

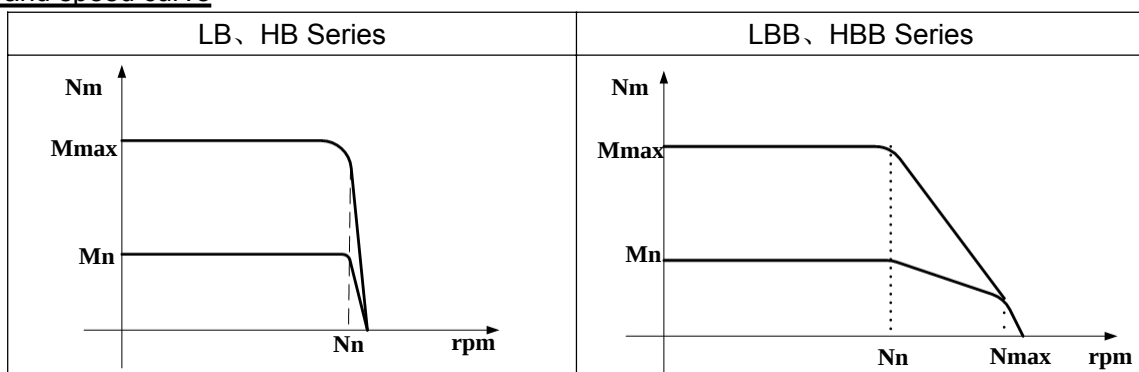
NOTE:

	
IC411 cooling method requires a big panel when mounting. It is usual the motors case a temperature rise after a long time running.	The power of power-off brake, must be controlled by a driver, if motor equipped one. Otherwise, it cases abnormal operation.
	
DO NOT tap the shaft end and back of motors, to avoid damages of precise feedback component. Notice the limitation of overall diameter and axial force of shaft end.	DO NOT modify, disassemble or machine. Any changes will be served, just inform us requirements.

Electric Plug

	
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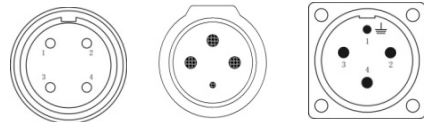
Torque and speed curve



WMST Series servo motors, $M_{max}=3M_n$; short time duty . Configure output volume of driver before using.

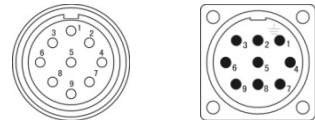
Power socket (4P socket) : Frame Size 80、110、130、150、180

Winding thread	U	V	W	
Plug number	2	3	4	1



Feedback component socket: wire-saving incremental encoder (code F1, 9P socket/Plug) :

Signal	+5V	0V	A+	A-	B+	B-	Z+	Z-	
Plug	2	3	4	7	5	8	6	9	1



Feedback component socket: non-wire-saving incremental encoder (code F、F5, 15 P socket/Plug):

Signal	+5V	0V	A+	A-	B+	B-	Z+	Z-	U+	U-	V+	V-	W+	W-	
Socket	2	3	4	7	5	8	6	9	10	13	11	14	12	15	1



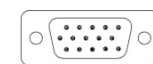
Feedback component socket: absolute encoder (code M、M1, 7P socket/Plug) :

Signal	+5V	0V	SD+	SD-	E+	E-	
Plug	7	5	6	4	3	2	1



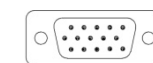
Feedback component socket: resolver (code X, 9P DB Plug/ socket)

signal	R1	R2	S1	S3	S2	S4	N/A	N/A	
Plug number	2	3	4	5	6	7	8	9	1



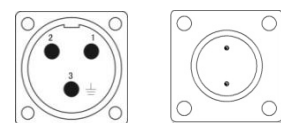
Feedback component socket: non-wire-saving incremental encoder (code F、F5、15P DB Plug/ socket)

Signal	+5V	0V	A+	A-	B+	B-	Z+	Z-	U+	U-	V+	V-	W+	W-	
Socket number	2	3	4	7	5	8	6	9	10	13	11	14	12	15	1



Power-off brake socket (3 P、2P) : Frame Size 80、110、130、150、80

Frame Size	80	110	130	150	180
Voltage	24VDC	24VDC	24VDC	100VDC	100VDC
Brake	≥2.5Nm	≥8Nm	≥12Nm	≥30Nm	≥30Nm
Current	≤0.6 A				
	1		2		
Remark	No polar required for supply power				



Encoder code:

F: Incremental complex optical-electric encoder (2500C/T)

F1: Wire-saving incremental complex optical-electric encoder (2500C/T)

F5: Incremental complex optical-electric encoder (5000C/T)

M: Tamagawa absolute value serial protocol optical-electric encoder (17bit/33bit)

M1: Tamagawa absolute value serial protocol optical-electric encoder (23bit/33bit)

Feature:

Frame size (mm) : 80、110、130、150	Rated Torque (Nm) : 1.3 ~ 27
Rated Speed (rpm) : 1500、2000、2500、3000	Rated Power (Kw) : 0.4 ~ 5.5
Power-off Brake: Optional	Pole Pairs: 4
Insulation: B	Protection Degree: Totally Enclosed, Self-cooled, IP65
Mounting Method: Flange	Adapter drive voltage (VAC) : 220
Ambient temperature: 0 ~ 55℃	Ambient humidity: Less 90% (No condensation)

Description of code system of LB series:

	110	WMST	-	M	020	30	L	F	B	Z	/C		
	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		

(1) Frame Size	(2) Synchronous PM servo AC motors	(3) Feedback component type
(4) Rated Torque: triple-digit×0.1Nm	(5) Rated Speed: double-digit×100rpm	(6) driver voltage (VAC) : 220
(7) Encoder code	(8) Medium	(9) Power-off Brake
(10) Key code of shaft end.		

LB Series

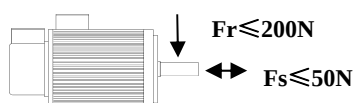
Type	Main specification			
	Rated Torque	Rated Speed	Rated current	Rated Power
80WMST-M01330L□B	1.3 Nm	3000 rpm	2.6 A	0.4 Kw
80WMST-M02430L□B	2.4 Nm	3000 rpm	4.2 A	0.75 Kw
80WMST-M03330L□B	3.3 Nm	3000 rpm	4.2 A	1.0 Kw
110WMST-M02030L□B	2.0 Nm	3000 rpm	4.0 A	0.6 Kw
110WMST-M04030L□B	4.0 Nm	3000 rpm	5.0 A	1.2 Kw
110WMST-M05030L□B	5.0 Nm	3000 rpm	6.0 A	1.5 Kw
110WMST-M06020L□B	6.0 Nm	2000 rpm	6.0 A	1.2 Kw
110WMST-M06030L□B	6.0 Nm	3000 rpm	8.0 A	1.8 Kw
130WMST-M04025L□B	4.0 Nm	2500 rpm	4.0 A	1.0 Kw
130WMST-M05020L□B	5.0 Nm	2000 rpm	5.0 A	1.0 Kw
130WMST-M05025L□B	5.0 Nm	2500 rpm	5.0 A	1.3 Kw
130WMST-M06025L□B	6.0 Nm	2500 rpm	6.0 A	1.5 Kw
130WMST-M07720L□B	7.7 Nm	2000 rpm	6.0 A	1.6 Kw
130WMST-M07725L□B	7.7 Nm	2500 rpm	7.5 A	2.0 Kw
130WMST-M07730L□B	7.7 Nm	3000 rpm	9.0 A	2.4 Kw
130WMST-M10015L□B	10 Nm	1500 rpm	6.0 A	1.5 Kw
130WMST-M10025L□B	10 Nm	2500 rpm	10.0 A	2.6 Kw
130WMST-M15015L□B	15 Nm	1500 rpm	9.5 A	2.3 Kw
130WMST-M15025L□B	15 Nm	2500 rpm	17.0 A	3.8 Kw
150WMST-M15025L□B	15 Nm	2500 rpm	16.5 A	3.8 Kw
150WMST-M18020L□B	18 Nm	2000 rpm	16.5 A	3.6 Kw
150WMST-M23020L□B	23 Nm	2000 rpm	20.5 A	4.7 Kw
150WMST-M27020L□B	27 Nm	2000 rpm	20.5 A	5.5 Kw

□: encoder code.

● Frame size 80

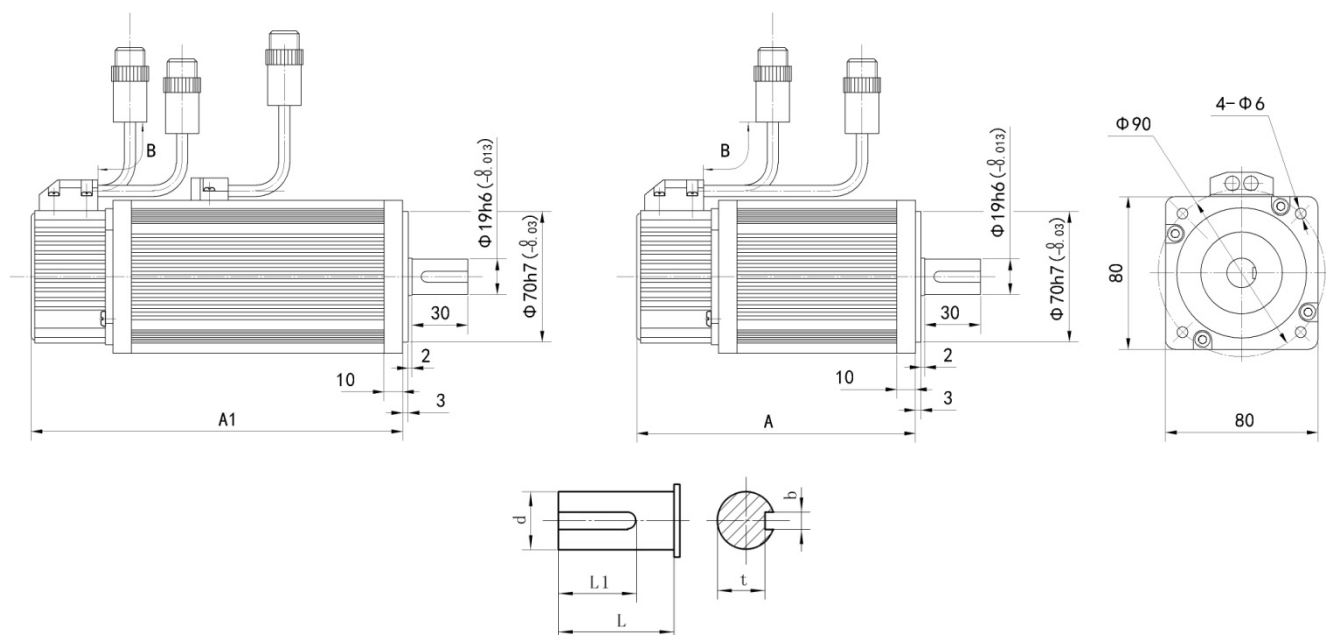
Motor Type	80WMST-M01330L□B	80WMST-M02430L□B	80WMST-M03330L□B
Output	0.4 Kw	0.75 Kw	1.0 Kw
Rated Torque	1.3 Nm	2.4 Nm	3.3 Nm
Rated Speed	3000 rpm	3000 rpm	3000 rpm
Rated current	2.6 A	4.2 A	4.2 A
Moment of Inertia	$0.577 \times 10^{-4} \text{ Kg m}^2$ ($0.637 \times 10^{-4} \text{ Kg m}^2$)	$0.934 \times 10^{-4} \text{ Kg m}^2$ ($0.994 \times 10^{-4} \text{ Kg m}^2$)	$1.164 \times 10^{-4} \text{ Kg m}^2$ ($1.724 \times 10^{-4} \text{ Kg m}^2$)
Mechanical time constant	1.286 ms	0.774 ms	0.611 ms
Max.Current	7.8 A	12.6 A	12.6 A
Max.Torque	3.9 Nm	7.2 Nm	9.9 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



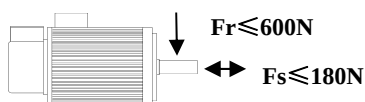
B key

Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	d (mm)	b (mm)	t (mm)
80WMST-M01330L□B	129	171	500	30	25	$\Phi 19^{+0.0}_{-0.013}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
80WMST-M02430L□B	151	193	500	30	25	$\Phi 19^{+0.0}_{-0.013}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
80WMST-M03330L□B	165	208	500	30	25	$\Phi 19^{+0.0}_{-0.013}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$

• Frame size 110

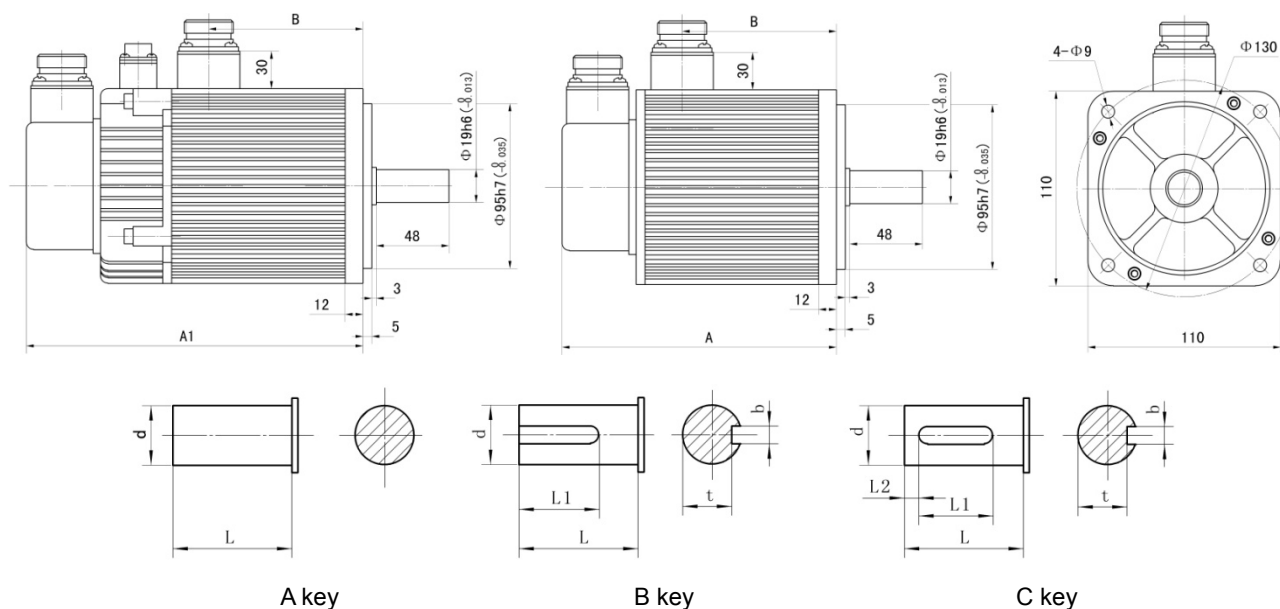
Motor Type	110WMST-M02030 L□B	110WMST-M04030 L□B	110WMST-M05030 L□B	110WMST-M06020 L□B	110WMST-M06030 L□B
Output	0.6 Kw	1.2 Kw	1.5 Kw	1.2 Kw	1.8 Kw
Rated Torque	2.0 Nm	4.0 Nm	5.0 Nm	6.0 Nm	6.0 Nm
Rated Speed	3000 rpm	3000 rpm	3000 rpm	2000 rpm	3000 rpm
Rated current	4.0 A	5.0 A	6.0 A	6.0 A	8.0 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.693 \times 10^{-3} \text{ Kg m}^2$ ($0.757 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	4.867 ms	2.531 ms	2.12 ms	1.976 ms	1.855 ms
Max.Current	12.0 A	15.0 A	18.0 A	18.0 A	24.0 A
Max.Torque	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

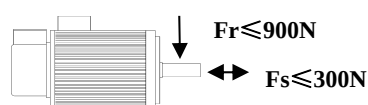


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
110WMST-M02030L□B	158	200	76	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M04030L□B	185	227	102	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M05030L□B	200	242	118	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M06020L□B 110WMST-M06030L□B	217	259	134	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$

● Frame size 130

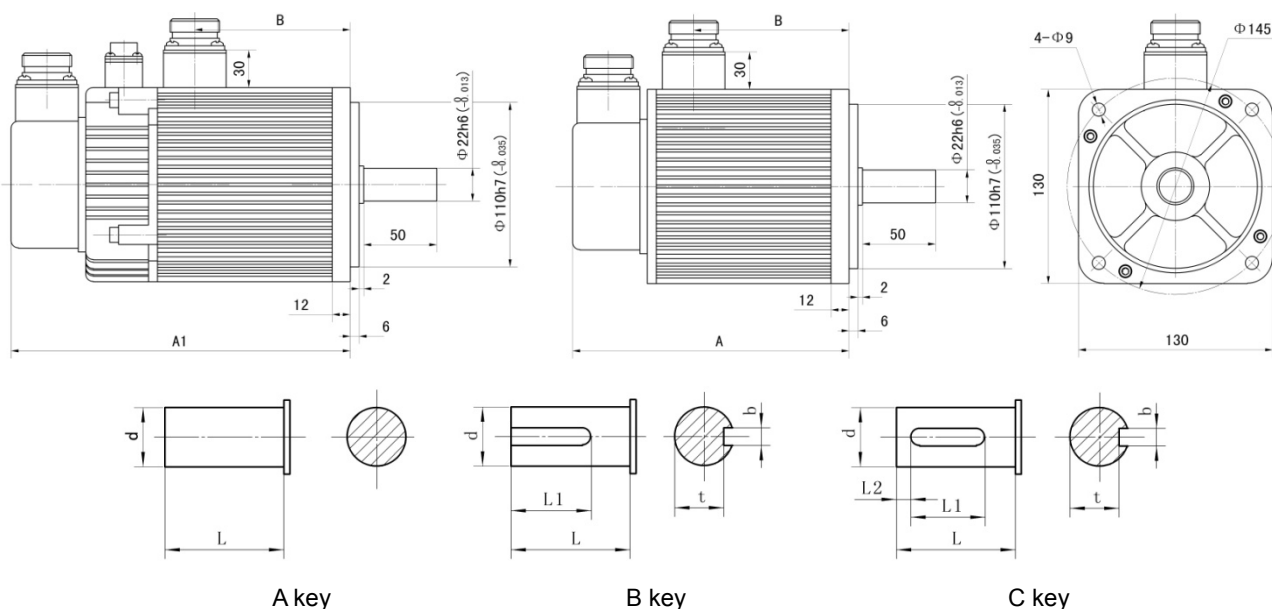
Motor Type	130WMST-M04025 L□B	130WMST-M05020 L□B	130WMST-M05025 L□B	130WMST-M06025 L□B
Output	1.0 Kw	1.0 Kw	1.3 Kw	1.5 Kw
Rated Torque	4.0 Nm	5.0 Nm	5.0 Nm	6.0 Nm
Rated Speed	2500 rpm	2000 rpm	2500 rpm	2500 rpm
Rated current	4.0 A	5.0 A	5.0 A	6.0 A
Moment of Inertia	$1.04 \times 10^{-3} \text{ Kgm}^2$ ($1.207 \times 10^{-3} \text{ Kgm}^2$)	$1.337 \times 10^{-3} \text{ Kgm}^2$ ($1.504 \times 10^{-3} \text{ Kgm}^2$)	$1.337 \times 10^{-3} \text{ Kgm}^2$ ($1.504 \times 10^{-3} \text{ Kgm}^2$)	$1.556 \times 10^{-3} \text{ Kgm}^2$ ($1.723 \times 10^{-3} \text{ Kgm}^2$)
Mechanical time constant	3.457 ms	4.901 ms	3.478 ms	2.824 ms
Max.Current	12.0 A	15.0 A	15.0 A	18.0 A
Max.Torque	12.0 Nm	15.0 Nm	15.0 Nm	18.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

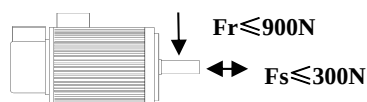


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M04025L□B	163	205	80	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
130WMST-M05020L□B	171	213	89	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
130WMST-M05025L□B	181	223	98	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$

● Frame size 130

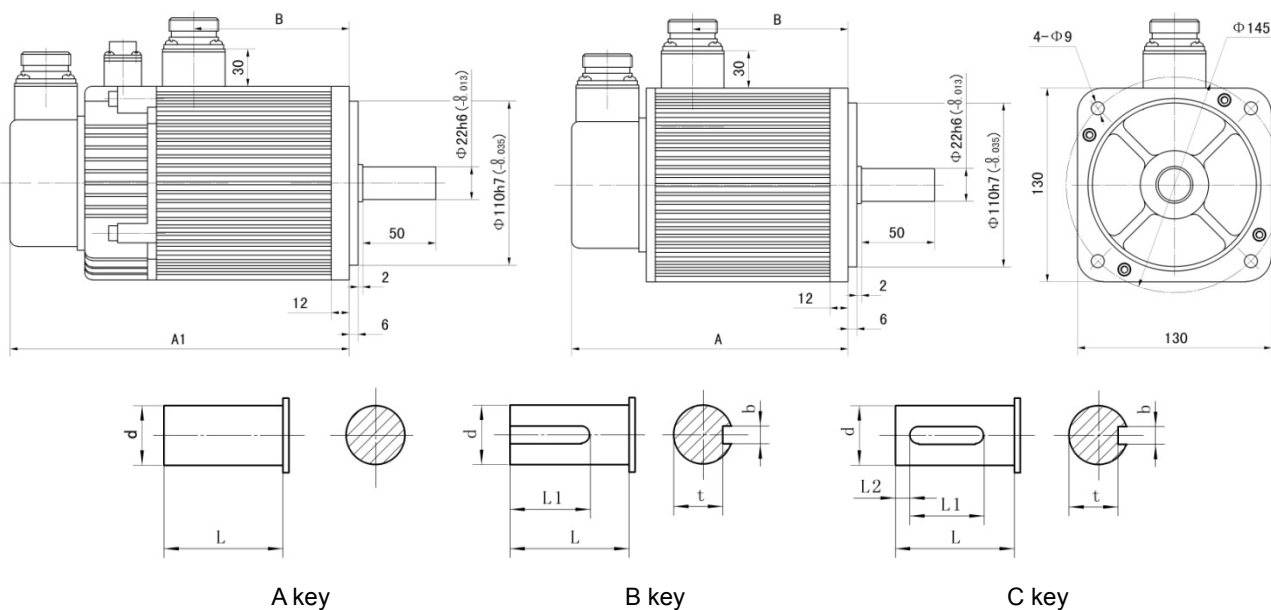
Motor Type	130WMST-M07720 L□B	130WMST-M07725 L□B	130WMST-M07730 L□B	130WMST-M10015 L□B
Output	1.6 Kw	2.0 Kw	2.4 Kw	1.5 Kw
Rated Torque	7.7 Nm	7.7 Nm	7.7 Nm	10Nm
Rated Speed	2000 rpm	2500 rpm	3000 rpm	1500 rpm
Rated current	6.0 A	7.5	9.0	6.0
Moment of Inertia	$1.959 \times 10^{-3} \text{ Kgm}^2$ ($2.126 \times 10^{-3} \text{ Kgm}^2$)	$1.959 \times 10^{-3} \text{ Kgm}^2$ ($2.126 \times 10^{-3} \text{ Kgm}^2$)	$1.959 \times 10^{-3} \text{ Kgm}^2$ ($2.126 \times 10^{-3} \text{ Kgm}^2$)	$2.539 \times 10^{-3} \text{ Kgm}^2$ ($2.706 \times 10^{-3} \text{ Kgm}^2$)
Mechanical time constant	2.356 ms	2.142 ms	2.262 ms	2.196 ms
Max.Current	18.0 A	20.7 A	27.0 A	18.0 A
Max.Torque	23.1Nm	23.1 Nm	23.1 Nm	30.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

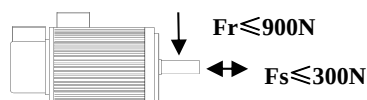


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M07720L□B	195	237	112	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$
130WMST-M07725L□B									
130WMST-M07730L□B									
130WMST-M10015L□B	219	261	136	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$

● Frame size 130

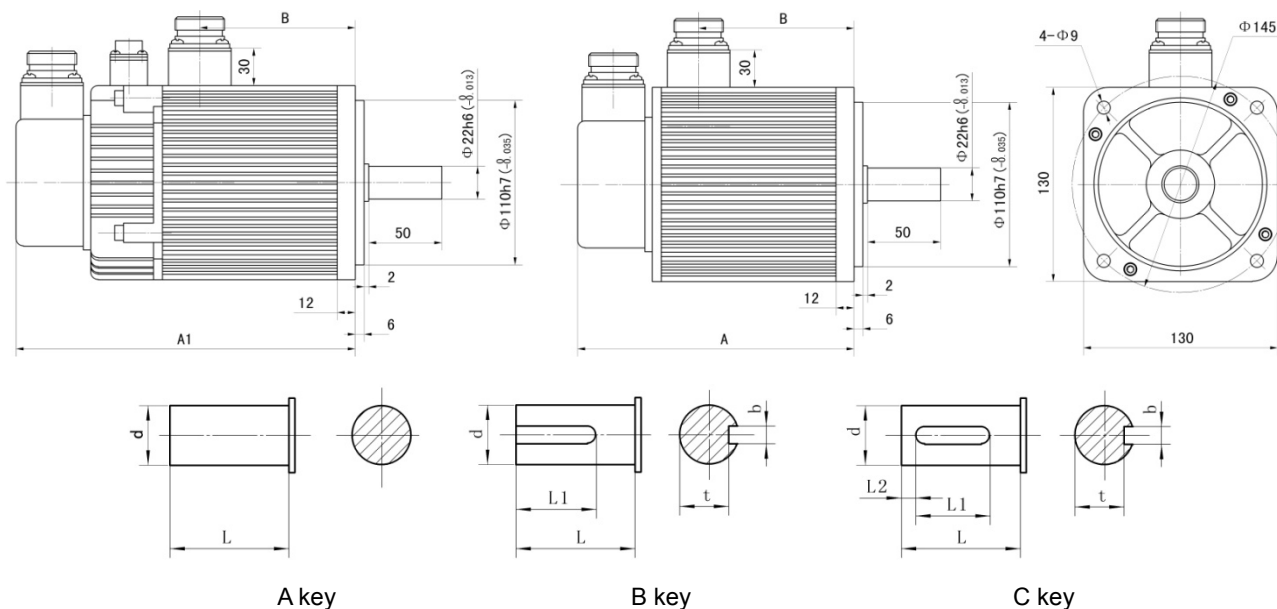
Motor Type	130WMST-M10025L□B	130WMST-M15015L□B	130WMST-M15025L□B
Output	2.6 Kw	2.3 Kw	3.9 Kw
Rated Torque	10.0 Nm	15.0 Nm	15.0 Nm
Rated Speed	2500 rpm	1500 rpm	2500 rpm
Rated current	10.0 A	9.5 A	17.0 A
Moment of Inertia	$2.539 \times 10^{-3} \text{ Kg m}^2$ ($2.706 \times 10^{-3} \text{ Kg m}^2$)	$2.914 \times 10^{-3} \text{ Kg m}^2$ ($3.081 \times 10^{-3} \text{ Kg m}^2$)	$2.914 \times 10^{-3} \text{ Kg m}^2$ ($3.081 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	1.996 ms	1.606 ms	1.146 ms
Max.Current	30.0 A	28.5 A	51.0 A
Max.Torque	30.0 Nm	45.0 Nm	45.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code

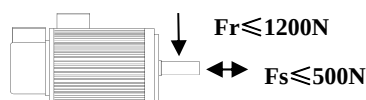


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M10025L□B	219	261	136	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$
130WMST-M15015L□B 130WMST-M15025L□B	267	309	184	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$

● Frame size 150

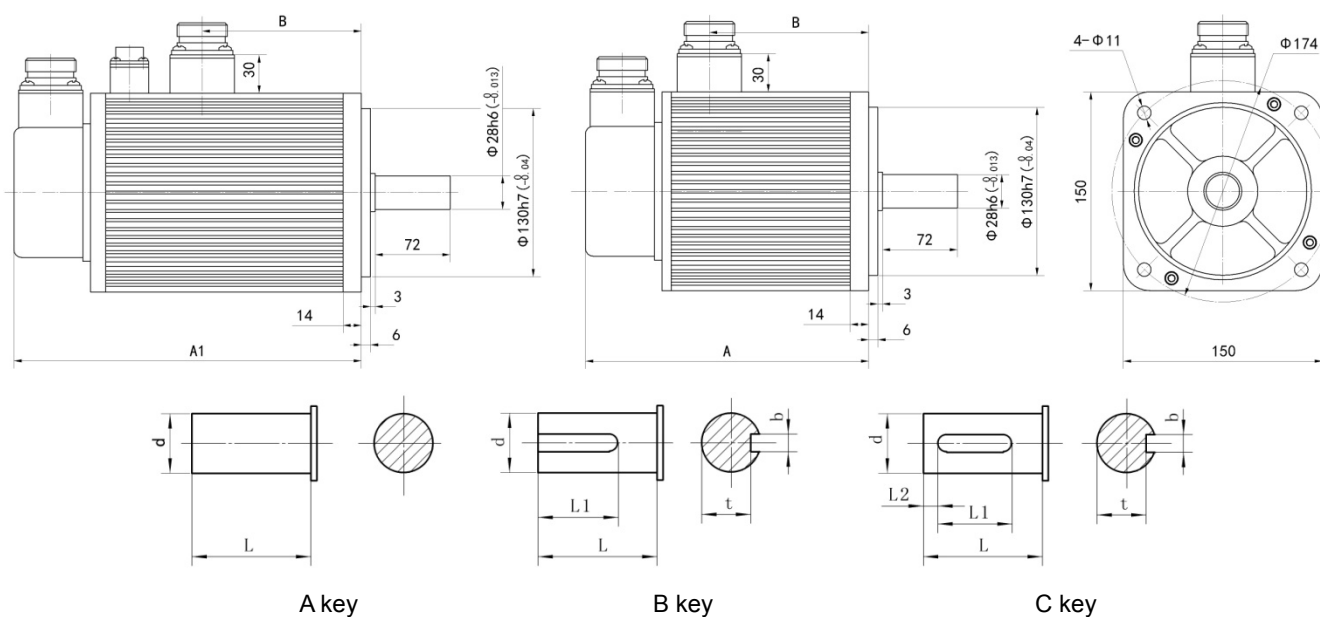
Motor Type	150WMST-M15025 L□B	150WMST-M18020 L□B	150WMST-M23020 L□B	150WMST-M27020 L□B
Output	3.8 Kw	3.6 Kw	4.7 Kw	5.5 Kw
Rated Torque	15.0 Nm	18.0 Nm	23.0 Nm	27.0 Nm
Rated Speed	2500 rpm	2000 rpm	2000 rpm	2000 rpm
Rated current	16.5 A	16.5 A	20.5 A	20.5 A
Moment of Inertia	$4.609 \times 10^{-3} \text{ Kgm}^2$ ($5.209 \times 10^{-3} \text{ Kgm}^2$)	$6.222 \times 10^{-3} \text{ Kgm}^2$ ($6.6 \times 10^{-3} \text{ Kgm}^2$)	$8.345 \times 10^{-3} \text{ Kgm}^2$ ($8.945 \times 10^{-3} \text{ Kgm}^2$)	$9.871 \times 10^{-3} \text{ Kgm}^2$ ($10.471 \times 10^{-3} \text{ Kgm}^2$)
Mechanical time constant	1.941 ms	2.07 ms	1.909 ms	2.564 ms
Max.Current	49.5 A	49.5 A	61.5 A	61.5 A
Max.Torque	45.0 Nm	54.0 Nm	69.0 Nm	81.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code



Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
150WMST-M15025L□B	231	293	146	72	60 (B type) 55 (C type)	5	$\Phi 28^{+0.0}_{-0.013}$	$8^{+0.0}_{-0.3}$	$24^{+0}_{-0.1}$
150WMST-M18020L□B	250	312	166	72	60 (B type) 55 (C type)	5	$\Phi 28^{+0.0}_{-0.013}$	$8^{+0.0}_{-0.3}$	$24^{+0}_{-0.1}$
150WMST-M23020L□B	280	342	196	72	60 (B type) 55 (C type)	5	$\Phi 28^{+0.0}_{-0.013}$	$8^{+0.0}_{-0.3}$	$24^{+0}_{-0.1}$
150WMST-M27020L□B	306	368	222	72	60 (B type) 55 (C type)	5	$\Phi 28^{+0.0}_{-0.013}$	$8^{+0.0}_{-0.3}$	$24^{+0}_{-0.1}$

Feature:

Frame size (mm) : 80、110、130、150	Rated Torque (Nm) : 1.3 ~ 19.1
Rated Speed (rpm) : 1500、2000、3000	Max. Speed (rpm) : 3000、5000
Rated Power (Kw) : 0.4~3.0	
Power-off Brake: Optional	Pole Pairs: 4
Insulation: B	Protection Degree: Totally Enclosed, Self-cooled, IP65
Mounting Method: Flange	Adapter drive voltage (VAC) : 220
Ambient temperature: 0 ~ 55℃	Ambient humidity: Less 90% (No condensation)

Description of code system of LBB Series:

	110	WMST	-	M	024	20	L	M	B	B	Z	/C	
	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	

(1) Frame Size	(2) Synchronous PM AC servo motor	(3) Feedback component type
(4) Rated Torque: triple-digit×0.1Nm	(5) Rated Speed: double-digit×100rpm	(6) Driver voltage (VAC) : 220
(7) Encoder code	(8) Medium	(9) Max. Speed Feature
(10) Power-off Brake	(11) Key code of shaft end.	

LBB Series

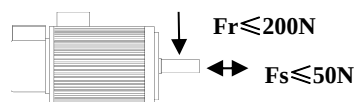
Motor Type	Main specifications				
	Rated Torque	Rated Speed	Max. Speed	Rated current	Rated Power
80WMST-M01330L□BB	1.3 Nm	3000 rpm	5000 rpm	2.8 A	0.4 Kw
80WMST-M02430L□BB	2.4 Nm	3000 rpm	5000 rpm	4.8 A	0.75 Kw
80WMST-M03330L□BB	3.3 Nm	3000 rpm	5000 rpm	6.2 A	1.0 Kw
110WMST-M02515L□BB	2.5 Nm	1500 rpm	3000 rpm	3.5 A	0.4 Kw
110WMST-M03215L□BB	3.2 Nm	1500 rpm	3000 rpm	4.5 A	0.5 Kw
110WMST-M05415L□BB	5.4 Nm	1500 rpm	3000 rpm	6.5 A	0.85 Kw
110WMST-M06415L□BB	6.4 Nm	1500 rpm	3000 rpm	8.0 A	1.0 Kw
110WMST-M02420L□BB	2.4 Nm	2000 rpm	3000 rpm	2.9 A	0.5 Kw
110WMST-M04820L□BB	4.8 Nm	2000 rpm	3000 rpm	6.0 A	1.0 Kw
130WMST-M03215L□BB	3.2 Nm	1500 rpm	3000 rpm	4.5 A	0.5 Kw
130WMST-M05415L□BB	5.4 Nm	1500 rpm	3000 rpm	7.0 A	0.85 Kw
130WMST-M06415L□BB	6.4 Nm	1500 rpm	3000 rpm	8.0 A	1.0 Kw
130WMST-M09615L□BB	9.6 Nm	1500 rpm	3000 rpm	11.5 A	1.5 Kw
130WMST-M14615L□BB	14.3 Nm	1500 rpm	3000 rpm	16.5 A	2.3 Kw
130WMST-M04820L□BB	4.8 Nm	2000 rpm	3000 rpm	6.2 A	1.0 Kw
130WMST-M07220L□BB	7.2 Nm	2000 rpm	3000 rpm	9.5 A	1.5 Kw
130WMST-M09620L□BB	9.6 Nm	2000 rpm	3000 rpm	13.5 A	2.0 Kw
130WMST-M14320L□BB	14.3 Nm	2000 rpm	3000 rpm	17.0 A	3.0 Kw
150WMST-M14615L□BB	14.6 Nm	1500 rpm	3000 rpm	20.0 A	2.3 Kw
150WMST-M19115L□BB	19.1 Nm	1500 rpm	3000 rpm	21.0 A	3.0 Kw
150WMST-M14320L□BB	14.3 Nm	2000 rpm	3000 rpm	20.0 A	3.0 Kw

□: Encoder code.

● Frame size 80 (3000rpm)

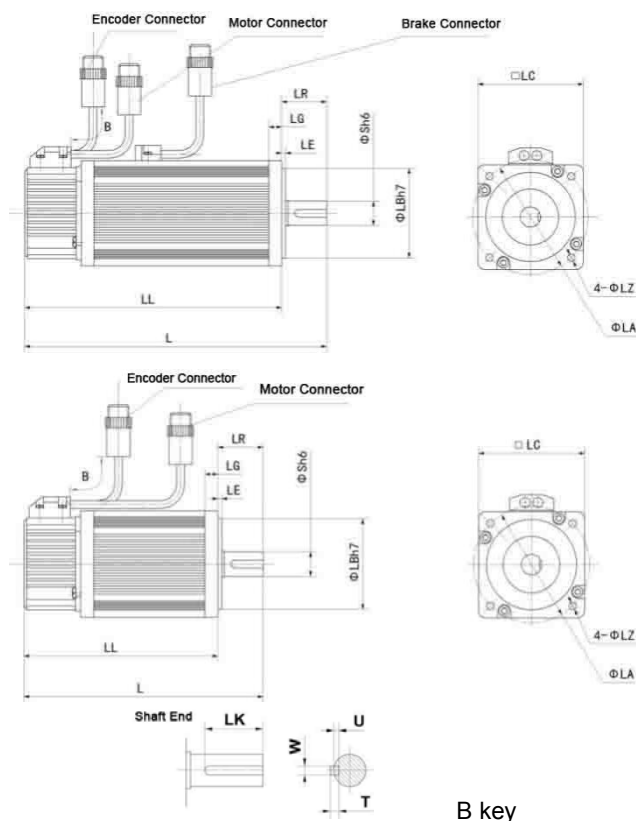
Motor Type	80WMST-M01330L□BB	80WMST-M02430L□BB	80WMST-M03330L□BB
Output	0.4 Kw	0.75 Kw	1.0 Kw
Rated Torque	1.3 Nm	2.4 Nm	3.3 Nm
Rated Speed	3000 rpm	3000 rpm	3000 rpm
Max. Speed	5000 rpm	5000 rpm	5000 rpm
Rated current	2.8 A	4.8 A	6.2 A
Moment of Inertia	$0.577 \times 10^{-4} \text{ Kg m}^2$ ($0.637 \times 10^{-4} \text{ Kg m}^2$)	$0.934 \times 10^{-4} \text{ Kg m}^2$ ($0.994 \times 10^{-4} \text{ Kg m}^2$)	$1.164 \times 10^{-4} \text{ Kg m}^2$ ($1.724 \times 10^{-4} \text{ Kg m}^2$)
Mechanical time constant	1.286 ms	0.823 ms	0.758 ms
Max.Current	8.4 A	14.4 A	18.6 A
Max.Torque	3.9 Nm	7.2 Nm	9.9 Nm

Max.diameter and axial force:



□: Encoder code.

The Value in parentheses are for moment of inertia with power-off brake



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
80WMST-M01330L□BB	163 (205)	129 (171)	34	3	10	80	90	6	19 ^{0-0.013}	70 ^{0-0.03}	6	3.5	6	25
80WMST-M02430L□BB	185 (227)	151 (193)	34	3	10	80	90	6	19	70	6	3.5	6	25
80WMST-M03330L□BB	200 (242)	165 (208)	34	3	10	80	90	6	19	70	6	3.5	6	25

Remark:The Value in parentheses are dimensions of motor with power-off brake

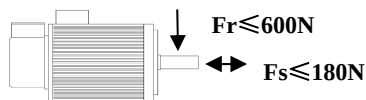
● Frame size 110 (1500rpm)

Motor Type	110WMST-M02515 L□BB	110WMST-M03215 L□BB	110WMST-M05415 L□BB	110WMST-M06415 L□BB
Output	0.4 Kw	0.5 Kw	0.85 Kw	1.0 Kw
Rated Torque	2.5 Nm	3.2 Nm	5.4 Nm	6.4 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	3.5 A	4.5 A	6.5 A	8.0 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.693 \times 10^{-3} \text{ Kg m}^2$ ($0.757 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	5.121 ms	3.20 ms	2.060 ms	1.828 ms
Max. Current	10.5 A	13.5 A	19.5 A	24.0 A
Max. Torque	7.5 Nm	9.6 Nm	16.2 Nm	19.2 Nm

● Frame size 110 (2000rpm)

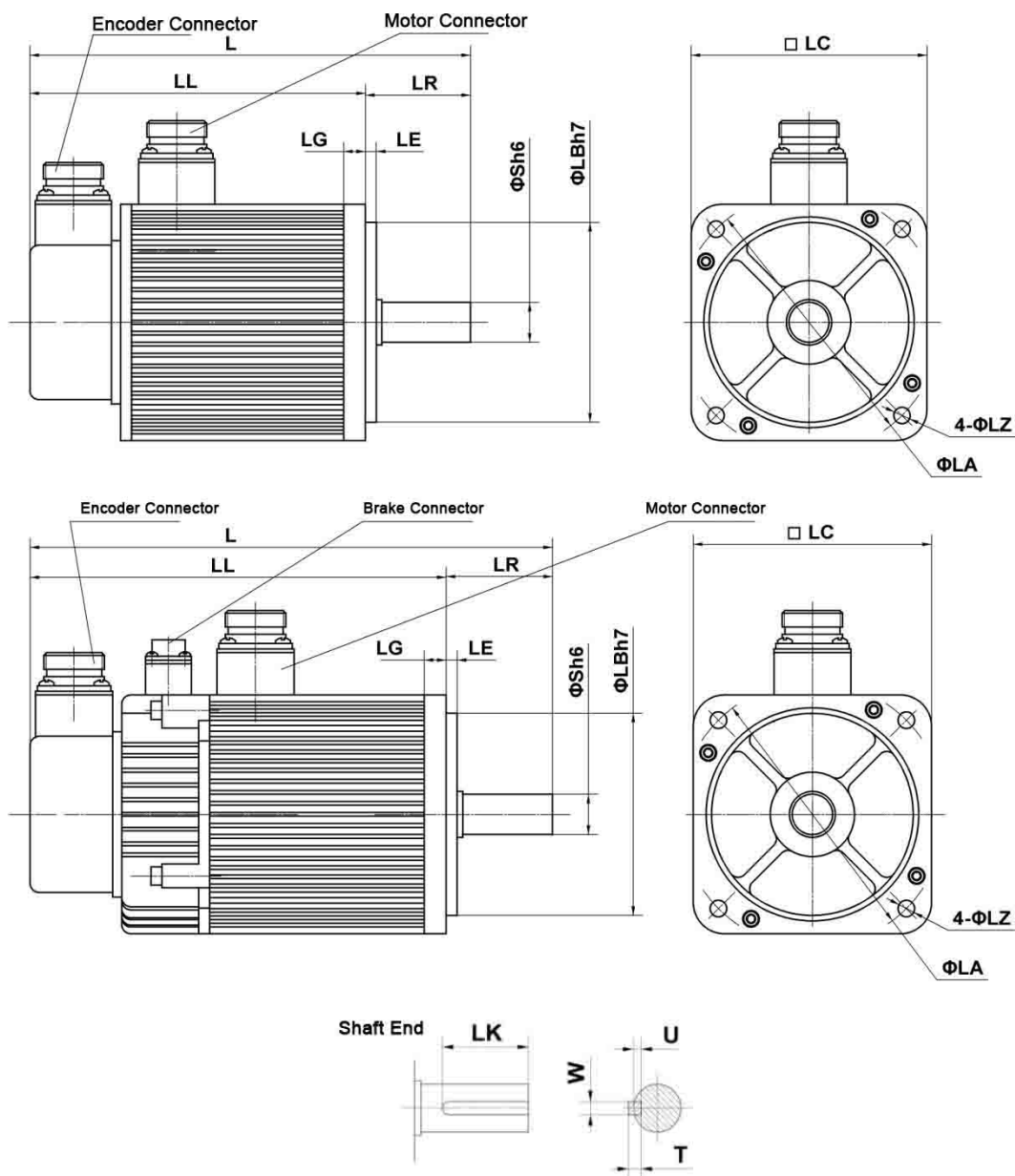
Motor Type	110WMST-M02420L□BB	110WMST-M04820L□BB
Output	0.5 Kw	1.0 Kw
Rated Torque	2.4 Nm	4.8 Nm
Rated Speed	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm
Rated current	2.9 A	6.0 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	4.005 ms	2.139 ms
Max. Current	8.7 A	18.0 A
Max. Torque	7.2 Nm	14.4 Nm

Max.diameter and axial force



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
110WMST-M02515L□BB 110WMST-M02420L□BB	214 (256)	158 (200)	56	5	12	110	130	9	19^{0-0}_{013}	95^{0-0}_{04}	6	3.5	6	40
110WMST-M03215L□BB	241 (283)	185 (227)	56	5	12	110	130	9	19^{0-0}_{013}	95^{0-0}_{04}	6	3.5	6	40
110WMST-M04820L□BB 110WMST-M05415L□BB	256 (298)	200 (242)	56	5	12	110	130	9	19^{0-0}_{013}	95^{0-0}_{04}	6	3.5	6	40
110WMST-M06415L□BB	273 (315)	217 (259)	56	5	12	110	130	9	19^{0-0}_{013}	95^{0-0}_{04}	6	3.5	6	40

Remark: The Value in parentheses are dimensions of motor with power-off brake

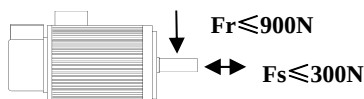
● Frame size 130 (1500rpm)

Motor Type	130WMST-M03215 L□BB	130WMST-M05415 L□BB	130WMST-M06415 L□BB	130WMST-M09615 L□BB	130WMST-M14615 L□BB
Output	0.5 Kw	0.85 Kw	1.0 Kw	1.5 Kw	2.3 Kw
Rated Torque	3.2 Nm	5.4Nm	6.4 Nm	9.6 Nm	14.6 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	4.5 A	7.0 A	8.0 A	11.5 A	16.5 A
Moment of Inertia	$1.04 \times 10^{-3} \text{ Kgm}^2$ ($1.207 \times 10^{-3} \text{ Kgm}^2$)	$1.337 \times 10^{-3} \text{ Kgm}^2$ ($1.504 \times 10^{-3} \text{ Kgm}^2$)	$1.556 \times 10^{-3} \text{ Kgm}^2$ ($1.723 \times 10^{-3} \text{ Kgm}^2$)	$2.539 \times 10^{-3} \text{ Kgm}^2$ ($2.706 \times 10^{-3} \text{ Kgm}^2$)	$2.914 \times 10^{-3} \text{ Kgm}^2$ ($3.081 \times 10^{-3} \text{ Kgm}^2$)
Mechanical time constant	5.295 ms	3.637 ms	2.969 ms	2.032 ms	1.150 ms
Max.Current	13.5 A	21.0 A	24.0 A	34.5 A	49.5 A
Max.Torque	9.6 Nm	16.2 Nm	19.2 Nm	28.8 Nm	43.8 Nm

● Frame size 130 (2000rpm)

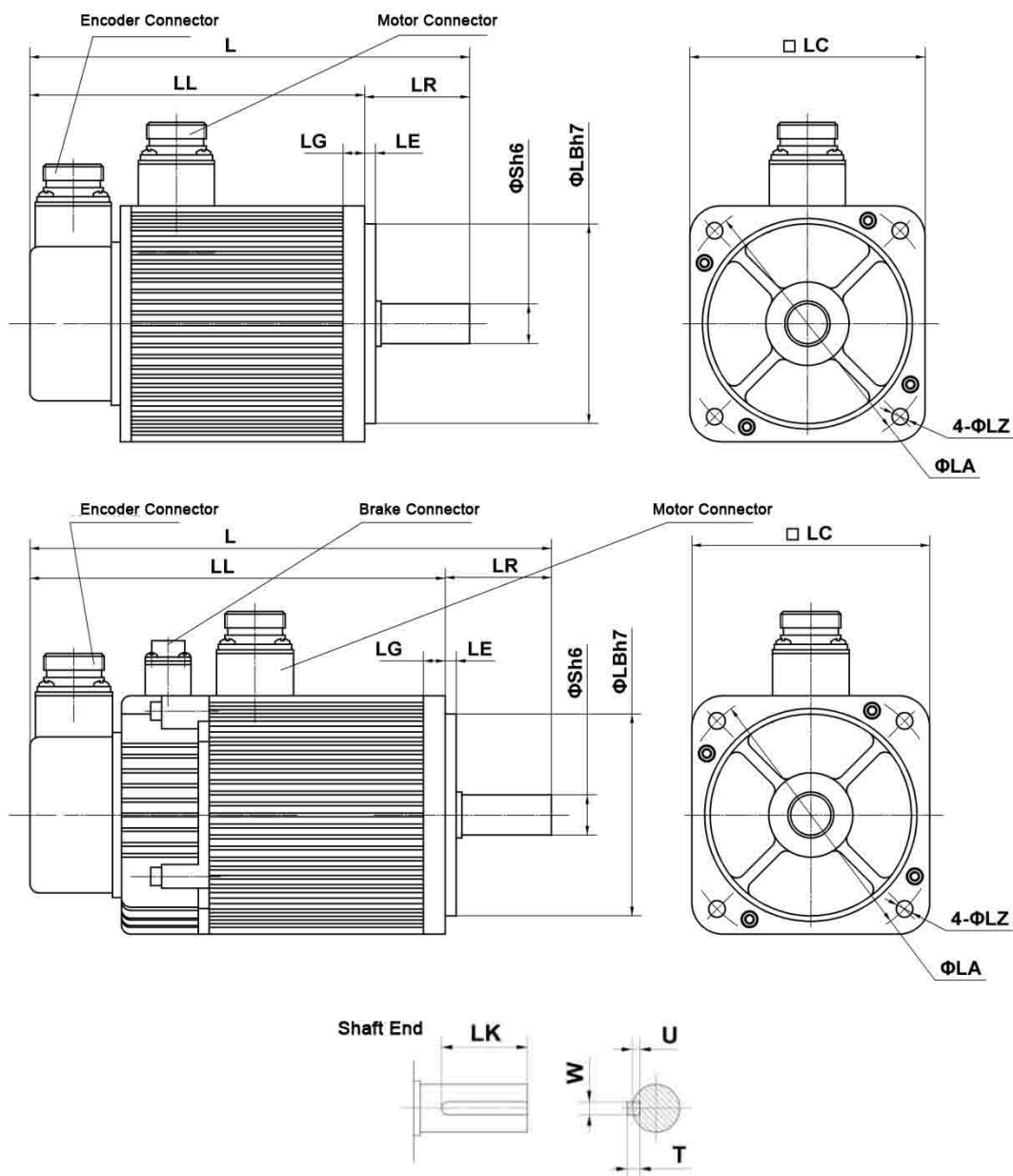
Motor Type	130WMST-M04820 L□BB	130WMST-M07220 L□BB	130WMST-M09620 L□BB	130WMST-M14320 L□BB
Output	1.0 Kw	1.5 Kw	2.0 Kw	3.0 Kw
Rated Torque	4.8 Nm	7.2 Nm	9.6 Nm	14.3 Nm
Rated Speed	2000 rpm	2000 rpm	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	6.2 A	9.5 A	13.5 A	17.0 A
Moment of Inertia	$1.337 \times 10^{-3} \text{ Kgm}^2$ ($1.504 \times 10^{-3} \text{ Kgm}^2$)	$1.959 \times 10^{-3} \text{ Kgm}^2$ ($2.126 \times 10^{-3} \text{ Kgm}^2$)	$2.539 \times 10^{-3} \text{ Kgm}^2$ ($2.706 \times 10^{-3} \text{ Kgm}^2$)	$2.914 \times 10^{-3} \text{ Kgm}^2$ ($3.081 \times 10^{-3} \text{ Kgm}^2$)
Mechanical time constant	3.615 ms	2.864 ms	1.823 ms	0.630 ms
Max.Current	18.6 A	28.5 A	40.5 A	51.0 A
Max.Torque	14.4 Nm	21.6 Nm	28.8 Nm	42.9 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code



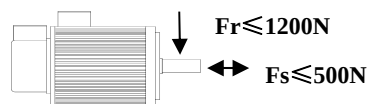
Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
130WMST-M03215L□BB	221 (263)	163 (205)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40
130WMST-M04820L□BB	229 (271)	171 (213)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40
130WMST-M05415L□BB	239 (281)	181 (223)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40
130WMST-M06415L□BB	253 (295)	195 (237)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40
130WMST-M09620L□BB	277 (319)	219 (261)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40
130WMST-M14320L□BB	325 (367)	267 (309)	58	6	12	130	145	9	22 ^{0-0. 013}	110 ^{0-0. 0 4}	6	3.5	6	40

Remark: The Value in parentheses are dimensions of motor with power-off brake

● Frame size 150 (1500rpm)

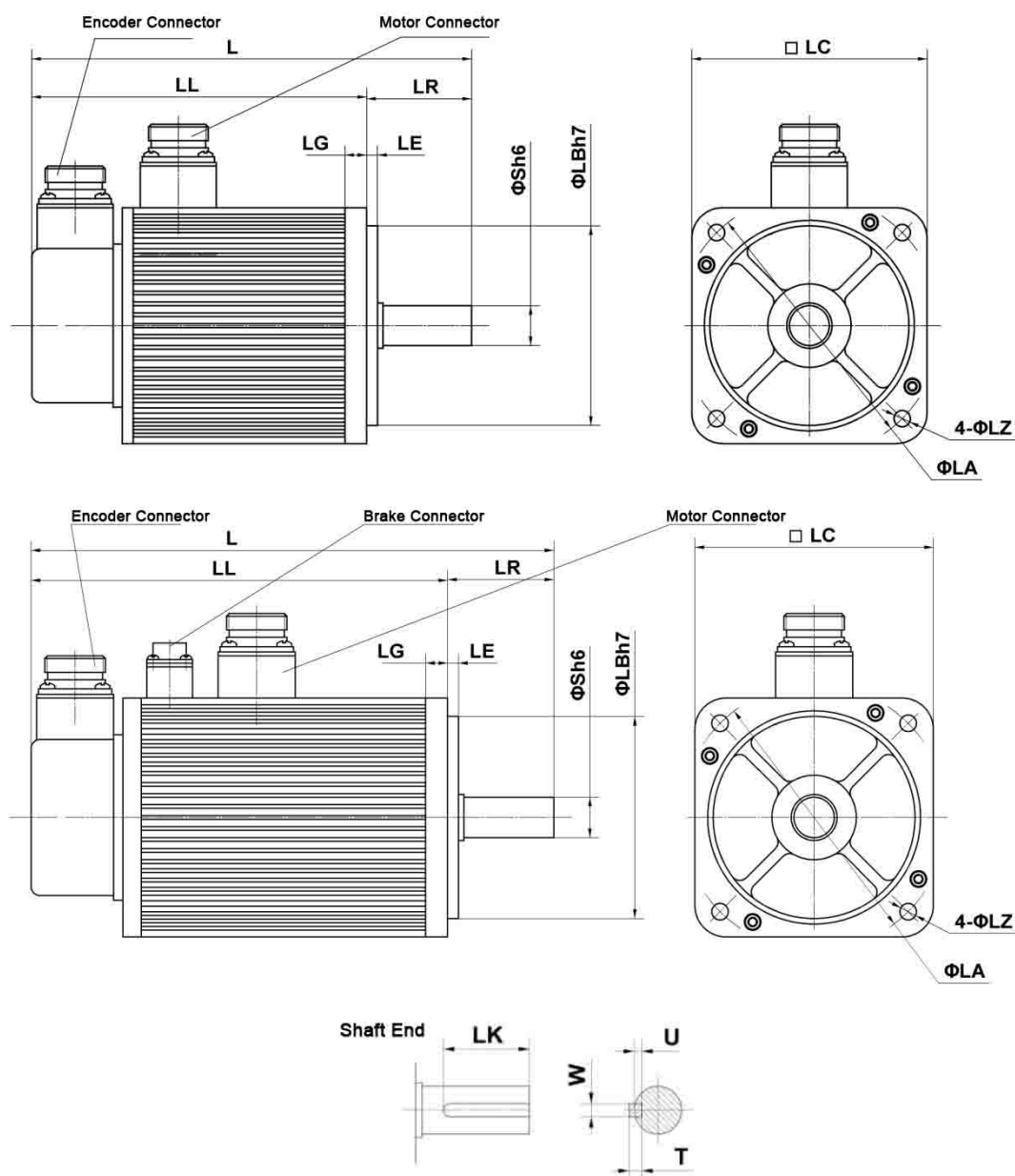
Motor Type	150WMST-M14615L□BB	150WMST-M19115L□BB	150WMST-M14320L□BB
Output	2.3 Kw	3.0 Kw	3.0 Kw
Rated Torque	14.6 Nm	19.1 Nm	14.3 Nm
Rated Speed	1500 rpm	1500 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm
Rated current	20.0 A	21.0 A	20.0 A
Moment of Inertia	$4.609 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($5.209 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$6.222 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($6.822 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$4.609 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($5.209 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	1.764 ms	1.781 ms	1.866 ms
Max.Current	60.0 A	63.0 A	58.5 A
Max.Torque	43.8 Nm	57.3 Nm	42.9 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code。



Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
150WMST-M14320L□BB	312	231	81	6	14	150	174	11	28 ^{0-0.013}	130 ^{0-0.04}	7	4	8	60
150WMST-M14615L□BB	(374)	(293)												
150WMST-M19115L□BB	331	250	81	6	14	150	174	11	28 ^{0-0.013}	130 ^{0-0.04}	7	4	8	60
	(393)	(312)												

Remark: The Value in parentheses are dimensions of motor with power-off brake

Feature:

Frame size (mm) : 110、130、150、180	Rated Torque (Nm) : 2 ~ 55
Rated Speed (rpm) : 1500、2000、2500、3000	Rated Power (Kw) : 0.6~8.6
Power-off Brake: Optional	Pole Pairs: 4
Insulation: B、F	Protection Degree: Totally Enclosed, Self-cooled, IP65
Mounting Method: Flange	Adapter drive voltage (VAC) : 380
Ambient temperature: 0 ~ 55℃	Ambient humidity: Less 90% (No condensation)

Description of code system of HB Series:

	110	WMST	-	M	020	30	H	F1	B	Z	/C		
	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		

(1) Frame Size	(2) Synchronous PM AC servo motor	(3) Feedback component type
(4) Rated Torque: triple-digit×0.1Nm	(5) Rated Speed: double-digit×100rpm	(6) Driver voltage (VAC) : 380
(7) Encoder code	(8) Medium	(9) Power-off Brake
(10) Key code of shaft end.		

HB Series

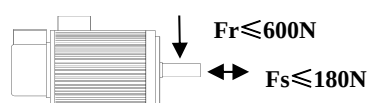
Motor Type	Main specifications			
	Rated Torque	Rated Speed	Rated current	Rated Power
110WMST-M02030H□B	2 Nm	3000 rpm	3.0 A	0.6 Kw
110WMST-M04030H□B	4 Nm	3000 rpm	4.0 A	1.2 Kw
110WMST-M05030H□B	5 Nm	3000 rpm	4.5 A	1.5 Kw
110WMST-M06020H□B	6 Nm	2000 rpm	3.5 A	1.2 Kw
110WMST-M06030H□B	6 Nm	3000 rpm	5.0 A	1.6 Kw
130WMST-M04025H□B	4 Nm	2500 rpm	3.0 A	1.0 Kw
130WMST-M05020H□B	5 Nm	2000 rpm	3.0 A	1.0 Kw
130WMST-M05025H□B	5 Nm	2500 rpm	3.5 A	1.3 Kw
130WMST-M06025H□B	6 Nm	2500 rpm	4.5 A	1.5 Kw
130WMST-M07720H□B	7.7 Nm	2000 rpm	4.0 A	1.6 Kw
130WMST-M07725H□B	7.7 Nm	2500 rpm	5.5 A	2.0 Kw
130WMST-M07730H□B	7.7 Nm	3000 rpm	6.5 A	2.4 Kw
130WMST-M10015H□B	10 Nm	1500 rpm	4.5 A	1.5 Kw
130WMST-M10025H□B	10 Nm	2500 rpm	7.0 A	2.6 Kw
130WMST-M15015H□B	15 Nm	1500 rpm	7.0 A	2.3 Kw
130WMST-M15025H□B	15 Nm	2500 rpm	11.5 A	3.8 Kw
150WMST-M15025H□B	15 Nm	2500 rpm	10.0 A	3.8 Kw
150WMST-M18020H□B	18 Nm	2000 rpm	10.5 A	3.6 Kw
150WMST-M23020H□B	23 Nm	2000 rpm	13.5 A	4.7 Kw
150WMST-M27020H□B	27 Nm	2000 rpm	13.5 A	5.5 Kw
180WMST-M18020H□B	18.0 Nm	2000 rpm	10.0 A	3.6 Kw
180WMST-M23020H□B	23.0 Nm	2000 rpm	13.5 A	4.7 Kw
180WMST-M27020H□B	27.0 Nm	2000 rpm	13.5 A	5.5 Kw
180WMST-M36015H□B	36.0 Nm	1500 rpm	14.0 A	5.6 Kw
180WMST-M45015H□B	45.0 Nm	1500 rpm	16.5 A	7.0 Kw
180WMST-M55015H□B	55.0 Nm	1500 rpm	20.5 A	8.6 Kw

□: Encoder code.

● Frame size 110

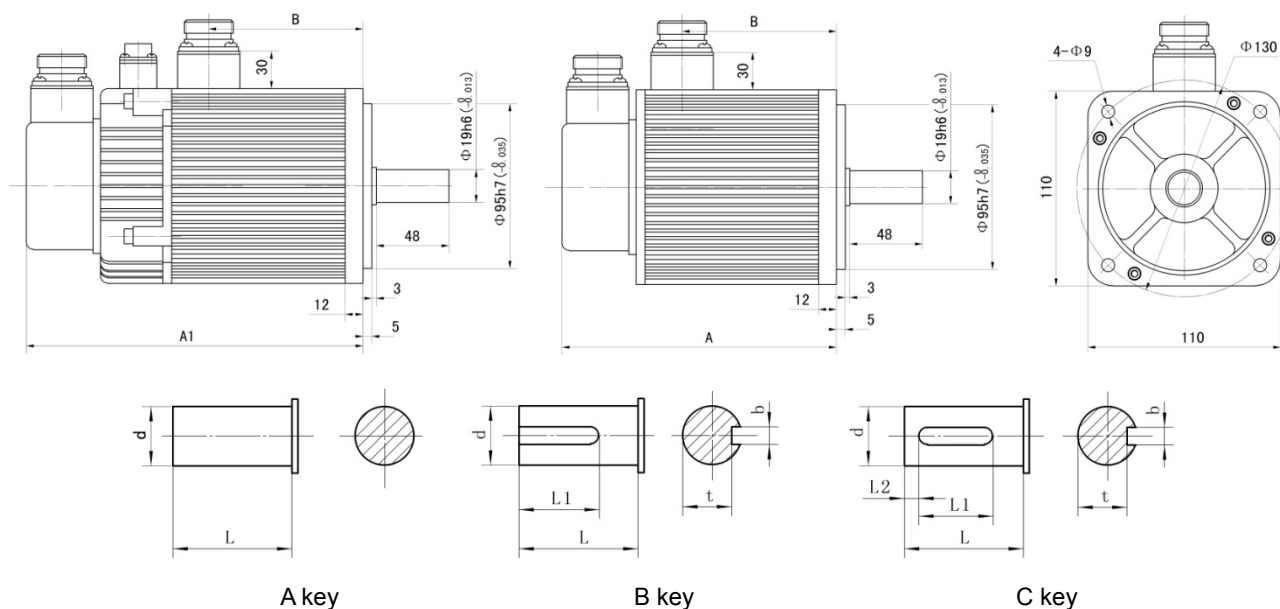
Motor Type	110WMST-M02030 H□B	110WMST-M04030 H□B	110WMST-M05030 H□B	110WMST-M06020 H□B	110WMST-M06030 H□B
Output	0.6 Kw	1.2 Kw	1.5 Kw	1.2 Kw	1.6 Kw
Rated Torque	2.0 Nm	4.0 Nm	5.0 Nm	6.0 Nm	6.0 Nm
Rated Speed	3000 rpm	3000 rpm	3000 rpm	2000 rpm	3000 rpm
Rated current	3.0 A	4.0 A	4.5 A	3.5 A	5.0 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.693 \times 10^{-3} \text{ Kg m}^2$ ($0.757 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	6.979 ms	3.682 ms	2.594 ms	2.174 ms	1.942 ms
Max.Current	9.0 A	12.0 A	13.5 A	10.5 A	15.0 A
Max.Torque	6.0 Nm	12.0 Nm	15.0 Nm	18.0 Nm	18.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

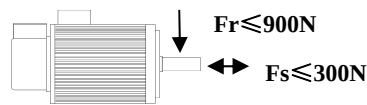


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
110WMST-M02030H□B	158	200	76	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M04030H□B	185	227	102	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M05030H□B	200	242	118	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M06020H□B	217	259	134	48	40	3	$\Phi 19^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$15.5^{+0}_{-0.1}$
110WMST-M06030H□B									

● Frame size 130

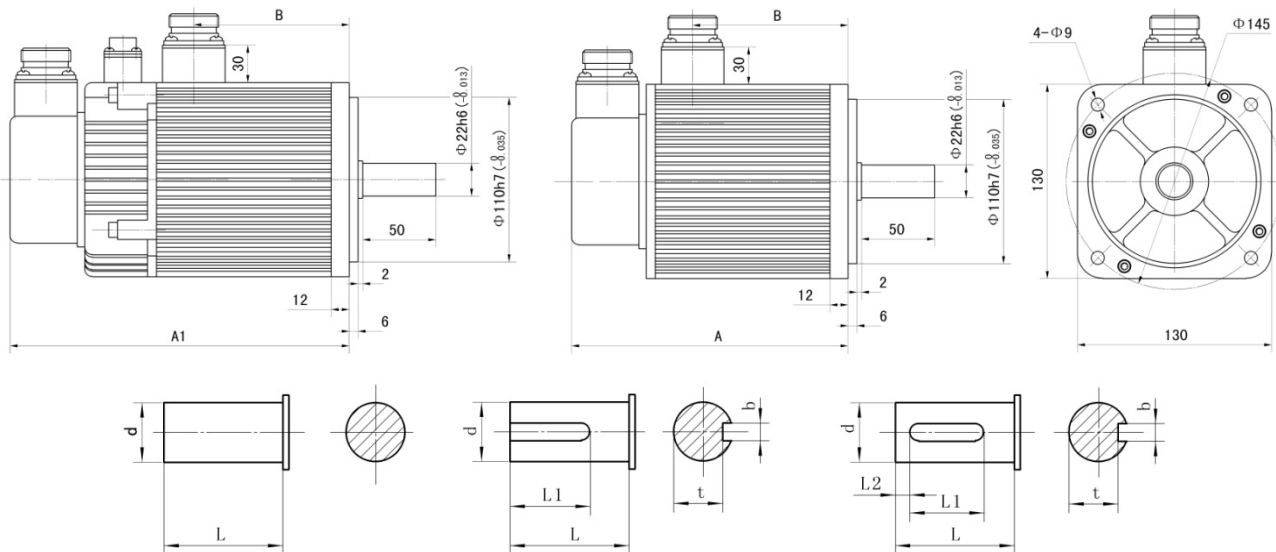
Motor Type	130WMST-M04025 H□B	130WMST-M05020 H□B	130WMST-M05025 H□B	130WMST-M06025 H□B
Output	1.0 Kw	1.0 Kw	1.3 Kw	1.5 Kw
Rated Torque	4.0 Nm	5.0 Nm	5.0 Nm	6.0 Nm
Rated Speed	2500 rpm	2000 rpm	2500 rpm	2500 rpm
Rated current	3.0 A	3.0 A	3.5 A	4.5 A
Moment of Inertia	$1.04 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.207 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.337 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.504 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.337 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.504 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.556 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.723 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	4.894 ms	3.718 ms	3.934 ms	4.014 ms
Max.Current	9.0 A	9.0 A	10.5 A	13.5 A
Max.Torque	12.0 Nm	15.0 Nm	15.0 Nm	18.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



A key

B key

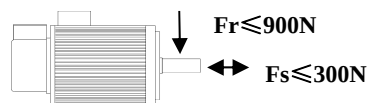
C key

Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M04025H□B	163	205	80	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
130WMST-M05020H□B	171	213	89	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
130WMST-M05025H□B	181	223	98	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$

• Frame size 130

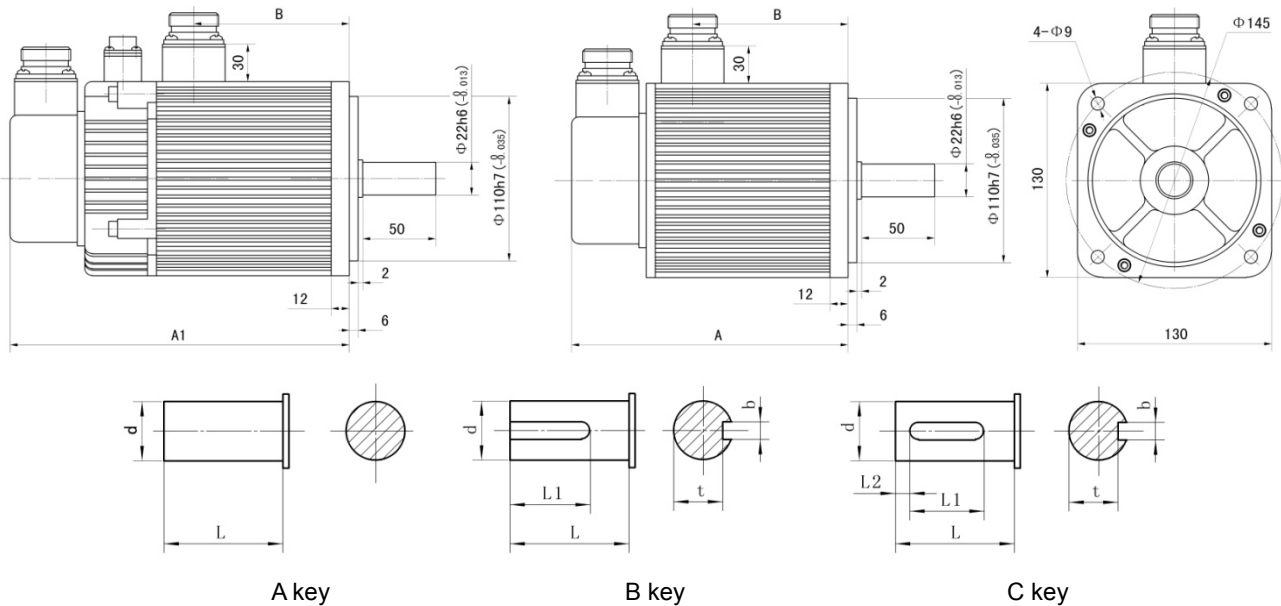
Motor Type	130WMST-M07720 H□B	130WMST-M07725 H□B	130WMST-M07730 H□B	130WMST-M10015 H□B
Output	1.6 Kw	2.0 Kw	2.4 Kw	1.5 Kw
Rated Torque	7.7 Nm	7.7 Nm	7.7 Nm	10Nm
Rated Speed	2000 rpm	2500 rpm	3000 rpm	1500 rpm
Rated current	4.0 A	5.5 A	6.5 A	4.5 A
Moment of Inertia	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.539 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.706 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	2.115 ms	2.490 ms	2.157 ms	2.669 ms
Max.Current	12.0 A	16.5 A	19.5 A	13.5 A
Max.Torque	23.1Nm	23.1 Nm	23.1 Nm	30.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

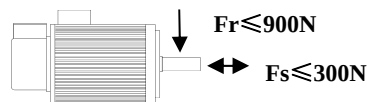


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M07720H□B	195	237	112	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$
130WMST-M07725H□B									
130WMST-M07730H□B									
130WMST-M10015H□B	219	261	136	50	40	5	$\Phi 22^{+0.0}_{-0.13}$	$6^{+0.0}_{-0.3}$	$18.5^{+0}_{-0.1}$

● Frame size 130

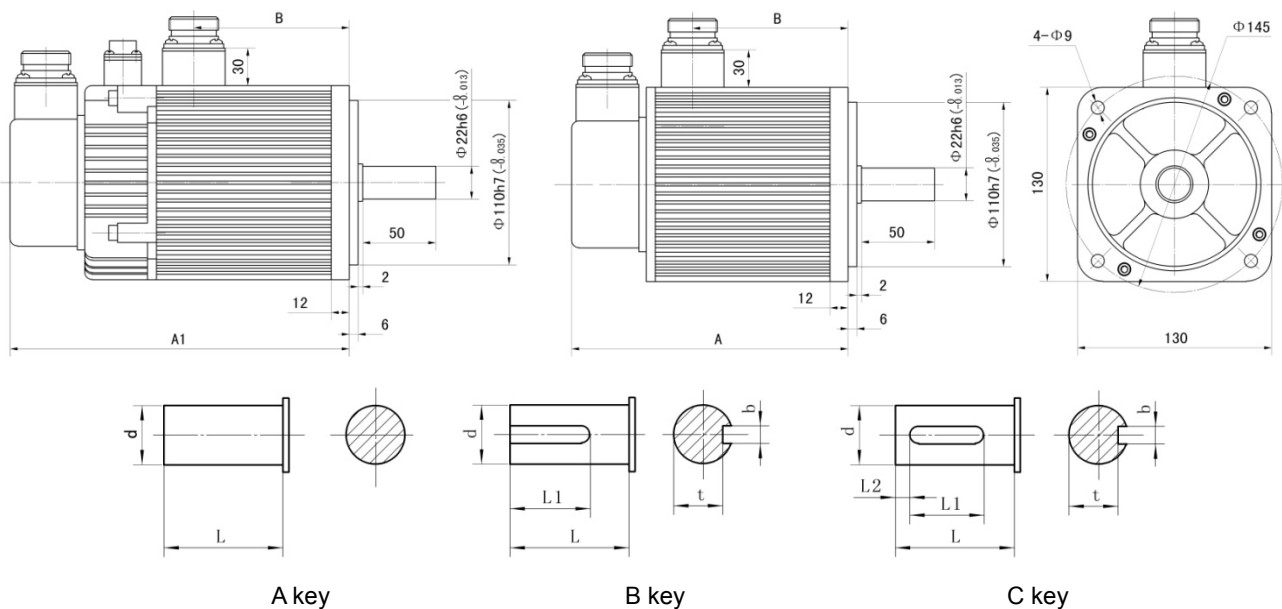
Motor Type	130WMST-M10025H□B	130WMST-M15015H□B	130WMST-M15025H□B
Output	2.6 Kw	2.3 Kw	3.9 Kw
Rated Torque	10.0 Nm	15.0 Nm	15.0 Nm
Rated Speed	2500 rpm	1500 rpm	2500 rpm
Rated current	7.0 A	7.0 A	11.5 A
Moment of Inertia	$2.539 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.706 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.914 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($3.081 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.914 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($3.081 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	2.376 ms	1.350 ms	1.218 ms
Max.Current	21.0 A	21.0 A	34.5 A
Max.Torque	30.0 Nm	45.0 Nm	45.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.

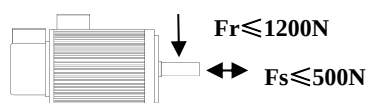


Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
130WMST-M10025H□B	219	261	136	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
130WMST-M15015H□B 130WMST-M15025H□B	267	309	184	50	40	5	$\Phi 22 \begin{smallmatrix} 0-0. \\ 0.13 \end{smallmatrix}$	$6 \begin{smallmatrix} 0-0. \\ 0.3 \end{smallmatrix}$	$18.5 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$

• Frame size 150

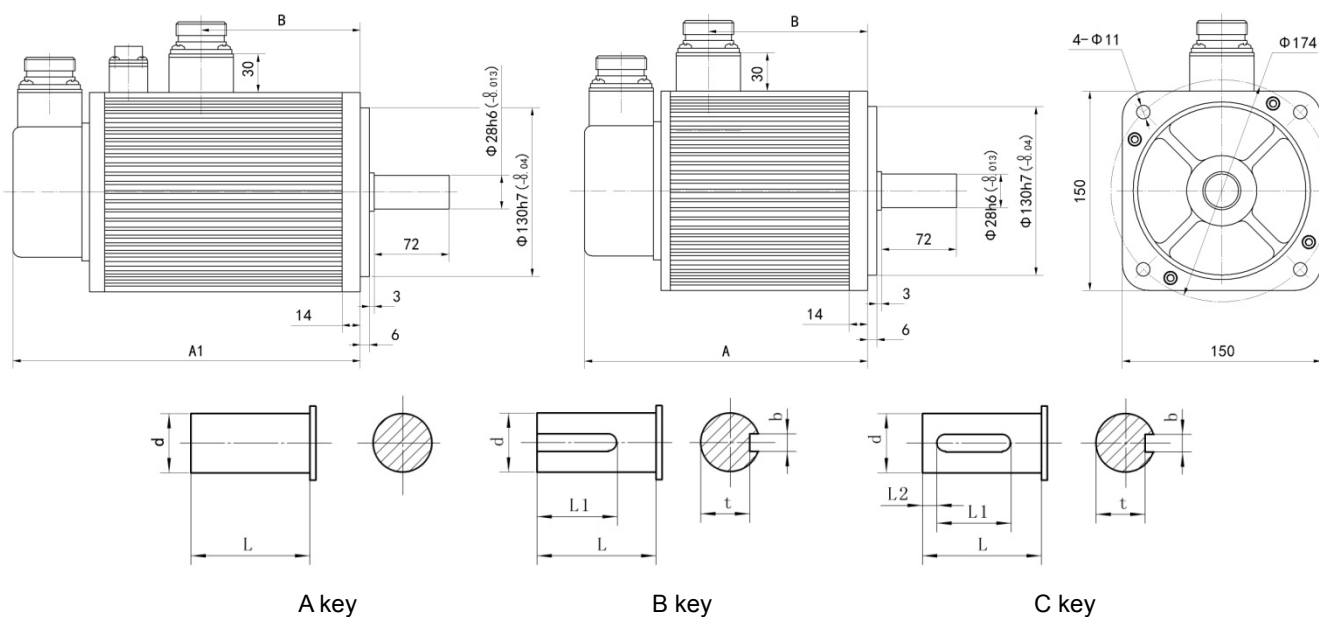
Motor Type	150WMST-M15025 H□B	150WMST-M18020 H□B	150WMST-M23020 H□B	150WMST-M27020 H□B
Output	3.8 Kw	3.6 Kw	4.7 Kw	5.5 Kw
Rated Torque	15.0 Nm	18.0 Nm	23.0 Nm	27.0 Nm
Rated Speed	2500 rpm	2000 rpm	2000 rpm	2000 rpm
Rated current	11.5 A	10.5 A	13.5 A	13.5 A
Moment of Inertia	$4.609 \times 10^{-3} \text{ Kg m}^2$ ($5.209 \times 10^{-3} \text{ Kg m}^2$)	$6.222 \times 10^{-3} \text{ Kg m}^2$ ($6.822 \times 10^{-3} \text{ Kg m}^2$)	$8.345 \times 10^{-3} \text{ Kg m}^2$ ($8.945 \times 10^{-3} \text{ Kg m}^2$)	$9.871 \times 10^{-3} \text{ Kg m}^2$ ($10.471 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	2.594 ms	2.268 ms	2.026 ms	1.947 ms
Max.Current	34.5 A	31.5 A	40.5 A	40.5 A
Max.Torque	45.0 Nm	54.0 Nm	69.0 Nm	81.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



Type	A (mm)	A1 (mm)	B (mm)	L (mm)	L1 (mm)	L2 (mm)	d (mm)	b (mm)	t (mm)
150WMST-M15025H□B	231	293	146	72	60 (B type) 55 (C type)	5	$\Phi 28^{0-0.013}_{0.13}$	$8^{0-0.03}_{0.3}$	$24^{0}_{-0.1}$
150WMST-M18020H□B	250	312	166	72	60 (B type) 55 (C type)	5	$\Phi 28^{0-0.013}_{0.13}$	$8^{0-0.03}_{0.3}$	$24^{0}_{-0.1}$
150WMST-M23020H□B	280	342	196	72	60 (B type) 55 (C type)	5	$\Phi 28^{0-0.013}_{0.13}$	$8^{0-0.03}_{0.3}$	$24^{0}_{-0.1}$
150WMST-M27020H□B	306	368	222	72	60 (B type) 55 (C type)	5	$\Phi 28^{0-0.013}_{0.13}$	$8^{0-0.03}_{0.3}$	$24^{0}_{-0.1}$

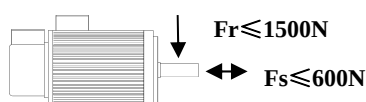
● Frame size 180 (2000rpm)

Motor Type	180WMST-M18020H□B	180WMST-M23020H□B	180WMST-M27020H□B
Output	3.6 Kw	4.7 Kw	5.5 Kw
Rated Torque	18.0 Nm	23.0 Nm	27.0 Nm
Rated Speed	2000 rpm	2000 rpm	2000 rpm
Rated current	10.0 A	13.5 A	13.5 A
☆ Moment of Inertia	5.326 Kgm ² ×10 ⁻³ (5.926 Kgm ² ×10 ⁻³)	6.628 Kgm ² ×10 ⁻³ (7.228 Kgm ² ×10 ⁻³)	7.836 Kgm ² ×10 ⁻³ (8.436 Kgm ² ×10 ⁻³)
Mechanical time constant	1.332 ms	1.094 ms	1.352 ms
Max.Current	30.0 A	40.5 A	40.5 A
Max.Torque	54.0Nm	69.0 Nm	81.0 Nm

● Frame size 180 (1500rpm)

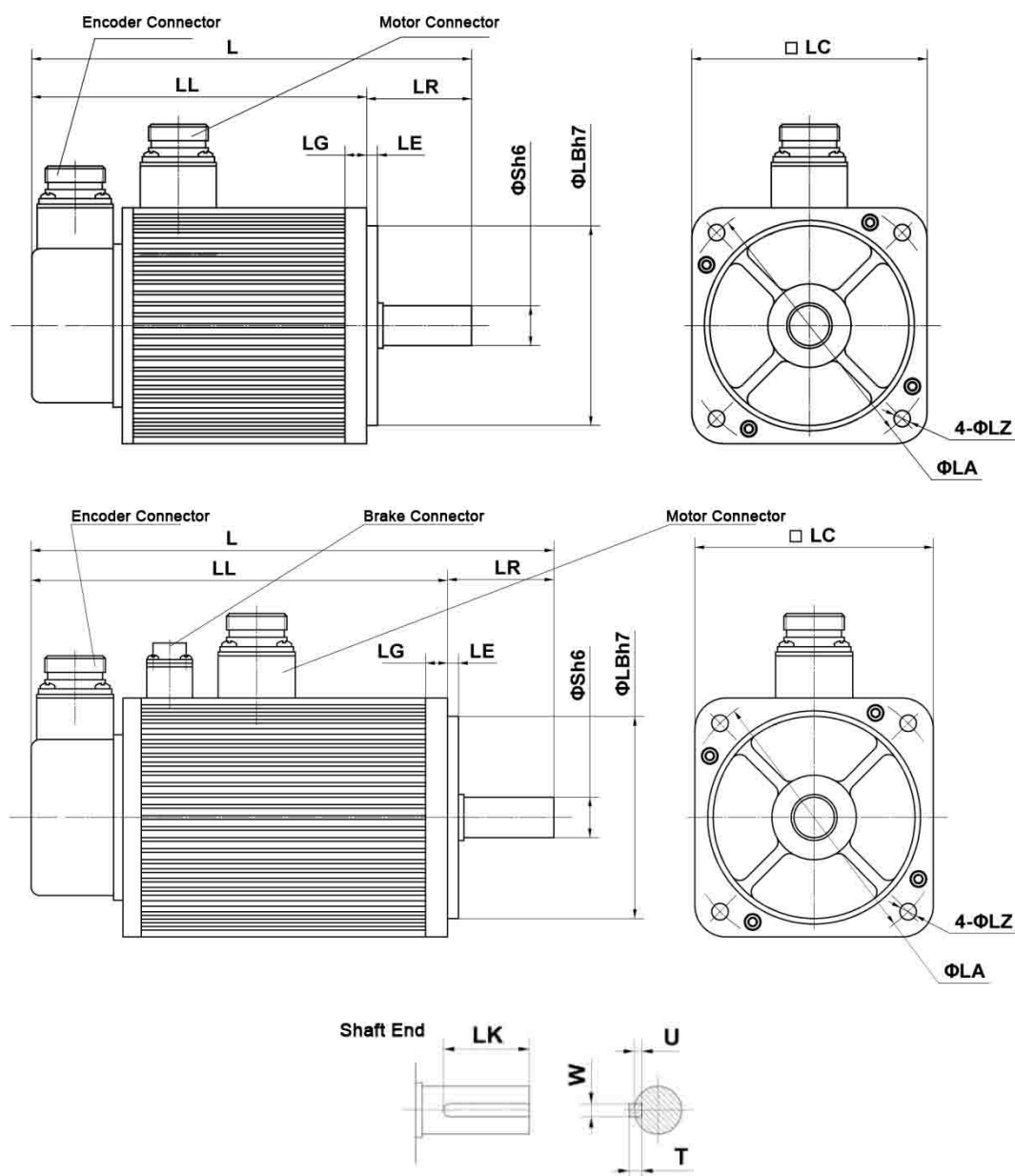
Motor Type	180WMST-M36015H□B	180WMST-M45015H□B	180WMST-M55015H□B
Output	5.6 Kw	7.0 Kw	8.6 Kw
Rated Torque	36.0 Nm	45.0 Nm	55.0 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm
Rated current	14.0 A	16.5 A	20.5 A
☆ Moment of Inertia	9.957 Kgm ² ×10 ⁻³ (10.557 Kgm ² ×10 ⁻³)	11.834 Kgm ² ×10 ⁻³ (12.434 Kgm ² ×10 ⁻³)	13.796 Kgm ² ×10 ⁻³ (14.369 Kgm ² ×10 ⁻³)
Mechanical time constant	0.945 ms	0.853 ms	1.008 ms
Max.Current	45.0A	51.0A	63.0 A
Max.Torque	108.0 Nm	135.0 Nm	165.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code。



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
180WMST-M18020H□B	321 (393)	242 (314)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63
180WMST-M23020H□B	345 (417)	266 (338)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63
180WMST-M27020H□B	365 (437)	286 (358)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63
180WMST-M36015H□B	399 (471)	320 (392)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63
180WMST-M45015H□B	431 (503)	352 (424)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63
180WMST-M55015H□B	463 (535)	384 (456)	79	4	20	180	200	13.5	35 ^{0-0. 0.13}	150 ^{0-0. 0.4}	8	5	10	63

Remark: The Value in parentheses are dimensions of motor with power-off brake

Feature:

Frame size (mm) : 110、130、150、180	Rated Torque (Nm) : 2.5 ~ 55
Rated Speed (rpm) : 1500、2000	Max. Speed (rpm) : 3000
Rated Power (Kw) : 0.4~8.6	Pole Pairs: 4
Power-off Brake: Optional	
Insulation: B、F	Protection Degree: Totally Enclosed, Self-cooled, IP65
Mounting Method: Flange	Adapter drive voltage (VAC) : 380
Ambient temperature: 0 ~ 55℃	Ambient humidity: Less 90% (No condensation)

Description of code system of HBB Series:

	110	WMST	-	M	024	20	H	M	B	B	Z	/C	
	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		

(1) Frame Size	(2) AC Synchronous PM servo motor	(3) Feedback component type
(4) Rated Torque: triple-digit×0.1Nm	(5) Rated Speed: double-digit×100rpm	(6) Driver voltage (VAC) : 380
(7) Encoder code	(8) Medium	(9) Max. Speed Feature
(10) Power-off Brake	(12) Key code of shaft end.	

HBB Series

Motor Type	Main specifications				
	Rated Torque	Rated Speed	Max. Speed	Rated current	Rated Power
110WMST-M02515H□BB	2.5 Nm	1500 rpm	3000 rpm	2.5 A	0.4 Kw
110WMST-M03215H□BB	3.2 Nm	1500 rpm	3000 rpm	2.5 A	0.5 Kw
110WMST-M05415H□BB	5.4 Nm	1500 rpm	3000 rpm	3.5 A	0.85 Kw
110WMST-M06415H□BB	6.4 Nm	1500 rpm	3000 rpm	4.0 A	1.0 Kw
110WMST-M02420H□BB	2.4 Nm	2000 rpm	3000 rpm	2.5 A	0.5 Kw
110WMST-M04820H□BB	4.8 Nm	2000 rpm	3000 rpm	3.5 A	1.0 Kw
130WMST-M03215H□BB	3.2 Nm	1500 rpm	3000 rpm	2.5 A	0.5 Kw
130WMST-M05415H□BB	5.4 Nm	1500 rpm	3000 rpm	3.8 A	0.85 Kw
130WMST-M06415H□BB	6.4 Nm	1500 rpm	3000 rpm	4.0 A	1.0 Kw
130WMST-M09615H□BB	9.6 Nm	1500 rpm	3000 rpm	6.0 A	1.5 Kw
130WMST-M14615H□BB	14.3 Nm	1500 rpm	3000 rpm	9.5 A	2.3 Kw
130WMST-M04820H□BB	4.8 Nm	2000 rpm	3000 rpm	3.5 A	1.0 Kw
130WMST-M07220H□BB	7.2 Nm	2000 rpm	3000 rpm	5.0 A	1.5 Kw
130WMST-M09620H□BB	9.6 Nm	2000 rpm	3000 rpm	7.5 A	2.0 Kw
130WMST-M14320H□BB	14.3 Nm	2000 rpm	3000 rpm	9.5 A	3.0 Kw
150WMST-M14615H□BB	14.6 Nm	1500 rpm	3000 rpm	9.0 A	2.3 Kw
150WMST-M19115H□BB	19.1 Nm	1500 rpm	3000 rpm	12.0 A	3.0 Kw
150WMST-M22315H□BB	22.3 Nm	1500 rpm	3000 rpm	13.0 A	3.5 Kw
150WMST-M28715H□BB	28.7 Nm	1500 rpm	3000 rpm	17.0 A	4.5 Kw
150WMST-M14320H□BB	14.3 Nm	2000 rpm	3000 rpm	9.0 A	3.0 Kw
150WMST-M23920H□BB	23.9 Nm	2000 rpm	3000 rpm	14.0 A	5.0 Kw
150WMST-M26320H□BB	26.3 Nm	2000 rpm	3000 rpm	15.5 A	5.5 Kw
180WMST-M18020H□BB	18.0 Nm	2000 rpm	3000 rpm	12.5 A	3.6 Kw
180WMST-M23020H□BB	23.0 Nm	2000 rpm	3000 rpm	15.0 A	4.7 Kw
180WMST-M27020H□BB	27.0 Nm	2000 rpm	3000 rpm	18.0 A	5.5 Kw
180WMST-M36015H□BB	36.0 Nm	1500 rpm	3000 rpm	22.5 A	5.6 Kw
180WMST-M45015H□BB	45.0 Nm	1500 rpm	3000 rpm	30.0 A	7.0 Kw
180WMST-M55015H□BB	55.0 Nm	1500 rpm	3000 rpm	35.0 A	8.6 Kw

□: Encoder code.

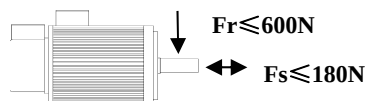
● Frame size 110 (1500rpm)

Motor Type	110WMST-M02515 H□BB	110WMST-M03215 H□BB	110WMST-M05415 H□BB	110WMST-M06415 H□BB
Output	0.4 Kw	0.5 Kw	0.85 Kw	1.0 Kw
Rated Torque	2.5 Nm	3.2 Nm	5.4 Nm	6.4 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	2.5 A	2.5 A	3.5 A	4.0 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.693 \times 10^{-3} \text{ Kg m}^2$ ($0.757 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)	$1.029 \times 10^{-3} \text{ Kg m}^2$ ($1.093 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	5.044 ms	3.741 ms	2.237 ms	1.756 ms
Max.Current	8.0 A	7.5 A	10.5 A	12.0 A
Max.Torque	7.5 Nm	9.6 Nm	16.2 Nm	19.2 Nm

● Frame size 110 (2000rpm)

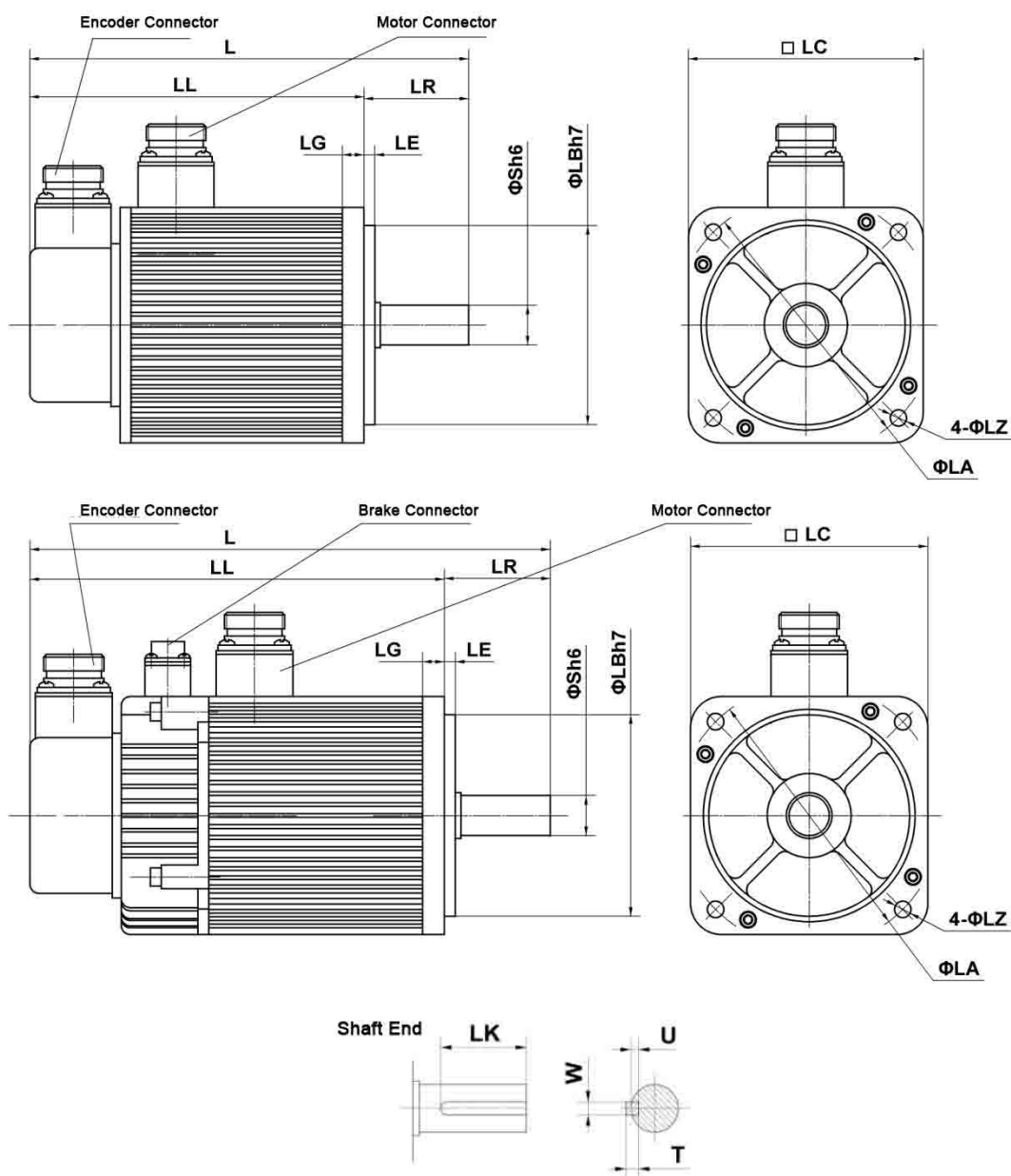
Motor Type	110WMST-M02420H□BB	110WMST-M04820H□BB
Output	0.5 Kw	1.0 Kw
Rated Torque	2.4 Nm	4.8 Nm
Rated Speed	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm
Rated current	2.5 A	3.5 A
Moment of Inertia	$0.413 \times 10^{-3} \text{ Kg m}^2$ ($0.477 \times 10^{-3} \text{ Kg m}^2$)	$0.856 \times 10^{-3} \text{ Kg m}^2$ ($0.92 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	7.160 ms	2.497 ms
Max.Current	7.5 A	10.5 A
Max.Torque	7.2 Nm	14.4 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
110WMST-M02515H□BB 110WMST-M02420H□BB	214 (256)	158 (200)	56	5	12	110	130	9	19 ^{0-0. 013}	95 ^{0-0. 0 4}	6	3.5	6	40
110WMST-M03215H□BB	241 (283)	185 (227)	56	5	12	110	130	9	19 ^{0-0. 013}	95 ^{0-0. 0 4}	6	3.5	6	40
110WMST-M04820H□BB 110WMST-M05415H□BB	256 (298)	200 (242)	56	5	12	110	130	9	19 ^{0-0. 013}	95 ^{0-0. 0 4}	6	3.5	6	40
110WMST-M06415H□BB	273 (315)	217 (259)	56	5	12	110	130	9	19 ^{0-0. 013}	95 ^{0-0. 0 4}	6	3.5	6	40

Remark: The Value in parentheses are dimensions of motor with power-off brake

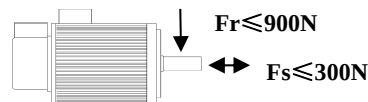
● Frame size 130 (1500rpm)

Motor Type	130WMST-M03215 H□BB	130WMST-M05415 H□BB	130WMST-M06415 H□BB	130WMST-M09615 H□BB	130WMST-M14615 H□BB
Output	0.5 Kw	0.85 Kw	1.0 Kw	1.5 Kw	2.3 Kw
Rated Torque	3.2 Nm	5.4Nm	6.4 Nm	9.6 Nm	14.6 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	2.5 A	3.8 A	4.0 A	6.0 A	9.5 A
Moment of Inertia	$1.04 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.207 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.337 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.504 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.556 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.723 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.539 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.706 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.914 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($3.081 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	6.200 ms	4.465 ms	3.074 ms	1.904 ms	1.284 ms
Max.Current	7.5A	11.4 A	12.0 A	18.0 A	28.5 A
Max.Torque	9.6 Nm	16.2 Nm	19.2 Nm	28.8 Nm	43.8 Nm

● Frame size 130 (2000rpm)

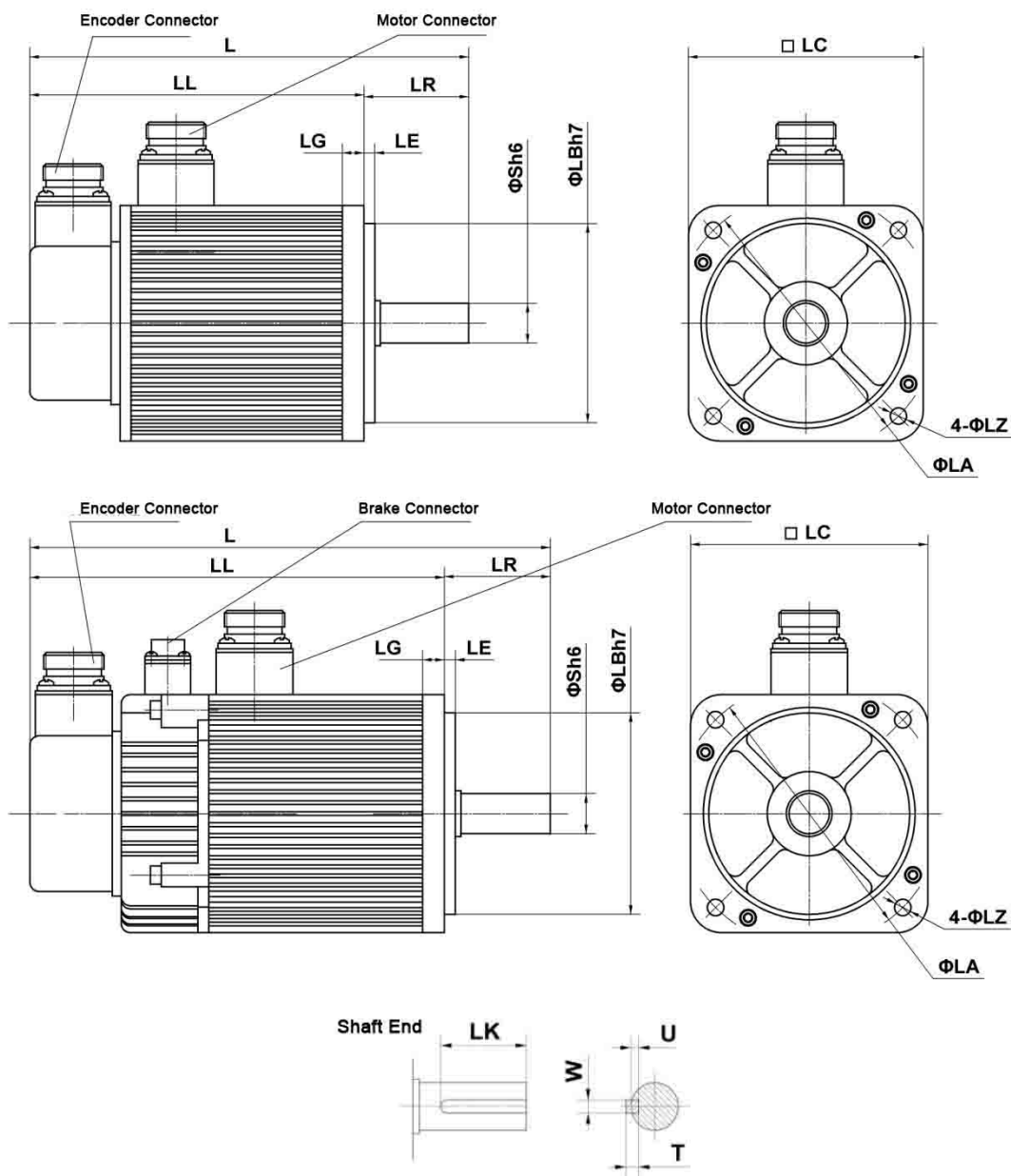
Motor Type	130WMST-M04820 H□BB	130WMST-M07220 H□BB	130WMST-M09620 H□BB	130WMST-M14320 H□BB
Output	1.0 Kw	1.5 Kw	2.0 Kw	3.0 Kw
Rated Torque	4.8 Nm	7.2 Nm	9.6 Nm	14.3 Nm
Rated Speed	2000 rpm	2000 rpm	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	3.5 A	5.0 A	7.5 A	9.5 A
Moment of Inertia	$1.337 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($1.504 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$1.959 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.126 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.539 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($2.706 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)	$2.914 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$ ($3.081 \times 10^{-3} \text{ Kg} \cdot \text{m}^2$)
Mechanical time constant	4.210 ms	2.925 ms	2.975 ms	1.320 ms
Max.Current	10.5 A	15.0 A	22.5 A	28.5 A
Max.Torque	14.4 Nm	21.6 Nm	28.8 Nm	42.9 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
130WMST-M03215H□BB	221 (263)	163 (205)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M04820H□BB	229 (271)	171 (213)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M05415H□BB	239 (281)	181 (223)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M07220H□BB	253 (295)	195 (237)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M09620H□BB	277 (319)	219 (261)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M14320H□BB	325 (367)	267 (309)	58	6	12	130	145	9	22 ^{0-0. 0.13}	110 ^{0-0. 0.4}	6	3.5	6	40
130WMST-M14615H□BB														

Remark: The Value in parentheses are dimensions of motor with power-off brake

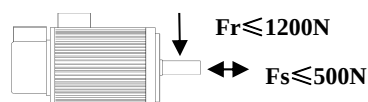
● Frame size 150 (1500rpm)

Motor Type	150WMST-M14615 H□BB	150WMST-M19115 H□BB	150WMST-M22315 H□BB	150WMST-M28715 H□BB
Output	2.3 Kw	3.0 Kw	3.5 Kw	4.5 Kw
Rated Torque	14.6 Nm	19.1 Nm	22.3 Nm	28.7 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm
Rated current	9.0 A	12.0 A	13.0 A	17.0 A
Moment of Inertia	$4.609 \times 10^{-3} \text{ Kg m}^2$ ($5.209 \times 10^{-3} \text{ Kg m}^2$)	$6.222 \times 10^{-3} \text{ Kg m}^2$ ($6.822 \times 10^{-3} \text{ Kg m}^2$)	$8.345 \times 10^{-3} \text{ Kg m}^2$ ($8.945 \times 10^{-3} \text{ Kg m}^2$)	$9.871 \times 10^{-3} \text{ Kg m}^2$ ($10.471 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	2.171 ms	1.989 ms	1.975 ms	1.798 ms
Max.Current	27.0 A	36.0 A	39.0 A	51 A
Max.Torque	43.8 Nm	57.3 Nm	66.9 Nm	86.1 Nm

● Frame size 150 (2000rpm)

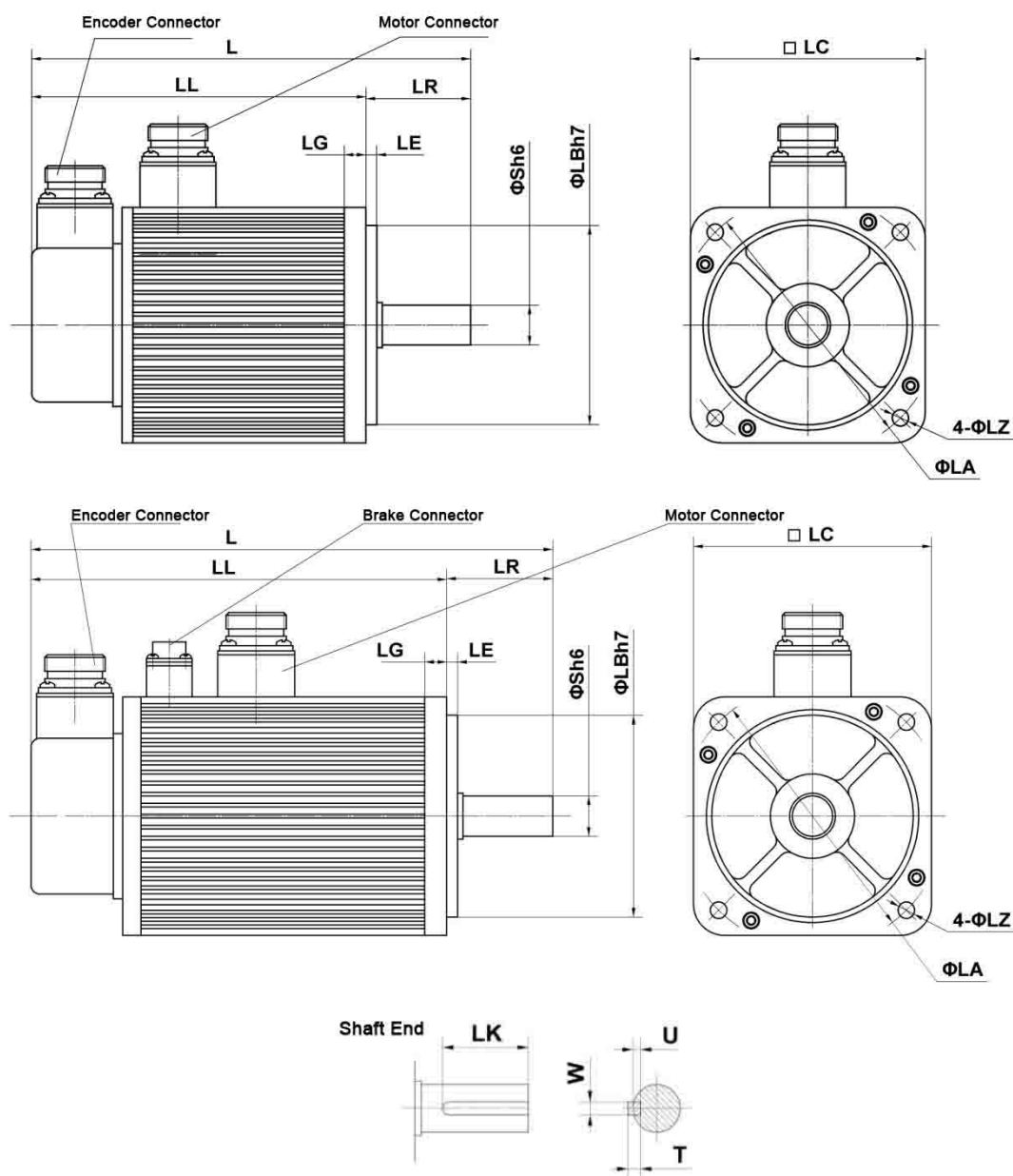
Motor Type	150WMST-M14320H□BB	150WMST-M23920H□BB	150WMST-M26320H□BB
Output	3.0 Kw	5.0 Kw	5.5 Kw
Rated Torque	14.3 Nm	23.9 Nm	26.3 Nm
Rated Speed	2000 rpm	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm
Rated current	9.0 A	14.0 A	15.5 A
Moment of Inertia	$4.609 \times 10^{-3} \text{ Kg m}^2$ ($5.209 \times 10^{-3} \text{ Kg m}^2$)	$8.345 \times 10^{-3} \text{ Kg m}^2$ ($8.945 \times 10^{-3} \text{ Kg m}^2$)	$9.871 \times 10^{-3} \text{ Kg m}^2$ ($10.471 \times 10^{-3} \text{ Kg m}^2$)
Mechanical time constant	2.223 ms	2.028 ms	1.810 ms
Max.Current	27.0 A	42.0 A	46.5 A
Max.Torque	42.9 Nm	71.7 Nm	78.9 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
150WMST-M14615H□BB 150WMST-M14320H□BB	312 (374)	231 (293)	81	6	14	150	174	11	$28^{0-0}_{0.13}$	$130^{0-0}_{0.4}$	7	4	8	60
150WMST-M19115H□BB	331 (393)	250 (312)	81	6	14	150	174	11	$28^{0-0}_{0.13}$	$130^{0-0}_{0.4}$	7	4	8	60
150WMST-M22315H□BB 150WMST-M23920H□BB	361 (423)	280 (342)	81	6	14	150	174	11	$28^{0-0}_{0.13}$	$130^{0-0}_{0.4}$	7	4	8	60
150WMST-M28715H□BB 150WMST-M26320H□BB	387 (449)	306 (368)	81	6	14	150	174	11	$28^{0-0}_{0.13}$	$130^{0-0}_{0.4}$	7	4	8	60

Remark: The Value in parentheses are dimensions of motor with power-off brake

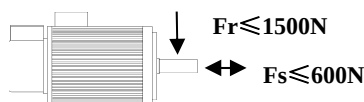
● Frame size 180 (2000rpm)

Motor Type	180WMST-M18020H□BB	180WMST-M23020H□BB	180WMST-M27020H□BB
Output	3.6 Kw	4.7 Kw	5.5 Kw
Rated Torque	18.0 Nm	23.0 Nm	27.0 Nm
Rated Speed	2000 rpm	2000 rpm	2000 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm
Rated current	12.5 A	15.0 A	18.0 A
Moment of Inertia	5.326 Kgm ² ×10 ⁻³ (5.926 Kgm ² ×10 ⁻³)	6.628 Kgm ² ×10 ⁻³ (7.228 Kgm ² ×10 ⁻³)	7.836 Kgm ² ×10 ⁻³ (8.436 Kgm ² ×10 ⁻³)
Mechanical time constant	1.418 ms	1.015 ms	0.972 ms
Max.Current	37.5A	45.0A	54.0 A
Max.Torque	54.0Nm	69.0 Nm	81.0 Nm

● Frame size 180 (1500rpm)

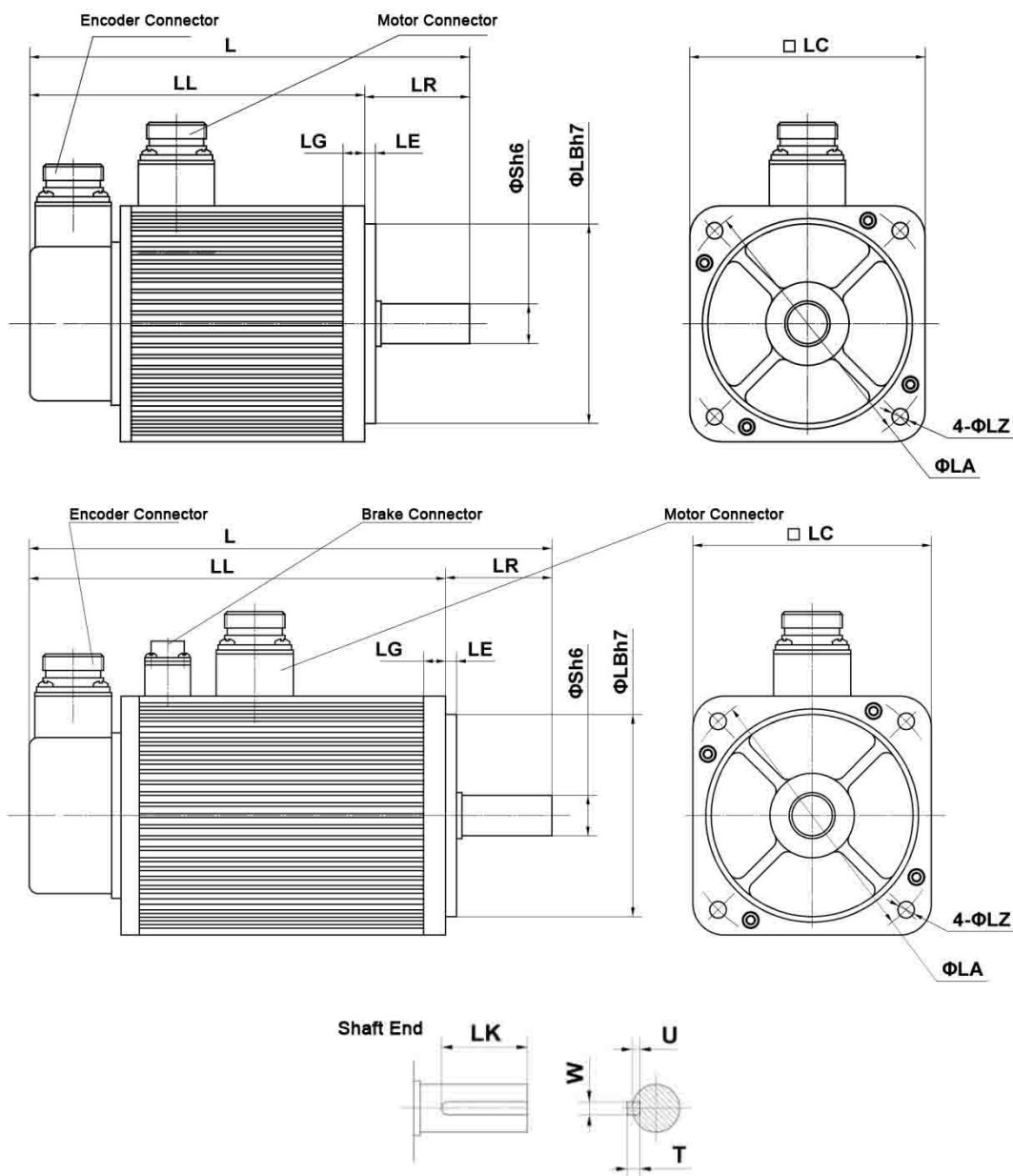
Motor Type	180WMST-M36015H□BB	180WMST-M45015H□BB	180WMST-M55015H□BB
Output	5.6 Kw	7.0 Kw	8.6 Kw
Rated Torque	36.0 Nm	45.0 Nm	55.0 Nm
Rated Speed	1500 rpm	1500 rpm	1500 rpm
Max. Speed	3000 rpm	3000 rpm	3000 rpm
Rated current	22.5 A	30.0A	35.0 A
Moment of Inertia	9.957 Kgm ² ×10 ⁻³ (10.557 Kgm ² ×10 ⁻³)	11.834 Kgm ² ×10 ⁻³ (12.434 Kgm ² ×10 ⁻³)	13.796 Kgm ² ×10 ⁻³ (14.369 Kgm ² ×10 ⁻³)
Mechanical time constant	0.875 ms	0.962 ms	0.704 ms
Max.Current	67.5A	90.0A	108.0 A
Max.Torque	108.0 Nm	135.0 Nm	165.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code.



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
180WMST-M18020H□BB	321 (393)	242 (314)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63
180WMST-M23020H□BB	345 (417)	266 (338)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63
180WMST-M27020H□BB	365 (437)	286 (358)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63
180WMST-M36015H□BB	399 (471)	320 (392)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63
180WMST-M45015H□BB	431 (503)	352 (424)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63
180WMST-M55015H□BB	463 (535)	384 (456)	79	4	20	180	200	13.5	$35^{0-0}_{0.13}$	$150^{0-0}_{0.4}$	8	5	10	63

Remark: The Value in parentheses are dimensions of motor with power-off brake

Feature:

Power servo motor		Frame size (mm) : 180
Rated Torque (Nm) : 27 ~ 70		Rated Speed (rpm) : 1800、2000
Max. Speed (rpm) : 2500		Rated Power (Kw) : 5.5~11.7
Duty: S1		Pole Pairs: 4
Insulation: F		Protection Degree: forced-air cool , IP54
Mounting Method: Flange、Horizontal		Adapter drive voltage (VAC) : 380
Ambient temperature: 0 ~ 55℃		Ambient humidity: Less 90% (No condensation)

Description of code system of HBBP Series:

		180	WMSTP	-	M	270	20	H	F	B	B	P	/C	
		(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		

(1) Frame Size	(2) Synchronous PM AC power servo motor	(3) Feedback component type
(4) Rated Torque: triple-digit×0.1Nm	(5) Rated Speed: double-digit×100rpm	(6) Driver voltage (VAC) : 380
(7) Encoder code	(8) Medium Inertia	(9) Max. Speed
(10) Temperature feedback component code	(11) Key code of shaft end.	

HBBP Series

Motor Type	Main specifications				
	Rated Torque	Rated Speed	Max. Speed	Rated current	Rated Power
180WMSTP-M27020H□BB△	27.0 Nm	2000 rpm	2500 rpm	13.5 A	5.5 Kw
180WMSTP-M36020H□BB△	36.0 Nm	2000 rpm	2500 rpm	20.0 A	7.5 Kw
180WMSTP-M45018H□BB△	45.0 Nm	1800 rpm	2500 rpm	23.5 A	8.5 Kw
180WMSTP-M55018H□BB△	55.0 Nm	1800 rpm	2500 rpm	30.0 A	10 Kw
180WMSTP-M70016H□BB△	70.0 Nm	1800 rpm	2500 rpm	38.0 A	13.2 Kw

□: Encoder code。

△: Temperature feedback component code P: PTC130 K: KTY84

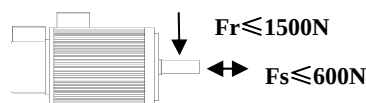
● Frame size 180

Motor Type	180WMSTP-M27020H□BB△	180WMSTP-M36020H□BB△	180WMSTP-M45018H□BB△
Output	5.5 Kw	7.5 Kw	8.5 Kw
Rated Torque	27.0 Nm	36.0 Nm	45.0 Nm
Rated Speed	2000 rpm	2000 rpm	1800 rpm
Max. Speed	2500 rpm	2500 rpm	2500 rpm
Rated current	13.5 A	20.0 A	23.5 A
Moment of Inertia	5.361 Kgm ² ×10 ⁻³ (5.961Kgm ² ×10 ⁻³)	6.840 Kgm ² ×10 ⁻³ (7.44Kgm ² ×10 ⁻³)	7.970 Kgm ² ×10 ⁻³ (8.57Kgm ² ×10 ⁻³) ⁻³
Mechanical time constant	1.347 ms	1.317 ms	1.206 ms
Max.Current	42.0A	62.0A	72.0 A
Max.Torque	81.0Nm	108.0 Nm	135.0 Nm

● Frame size 180

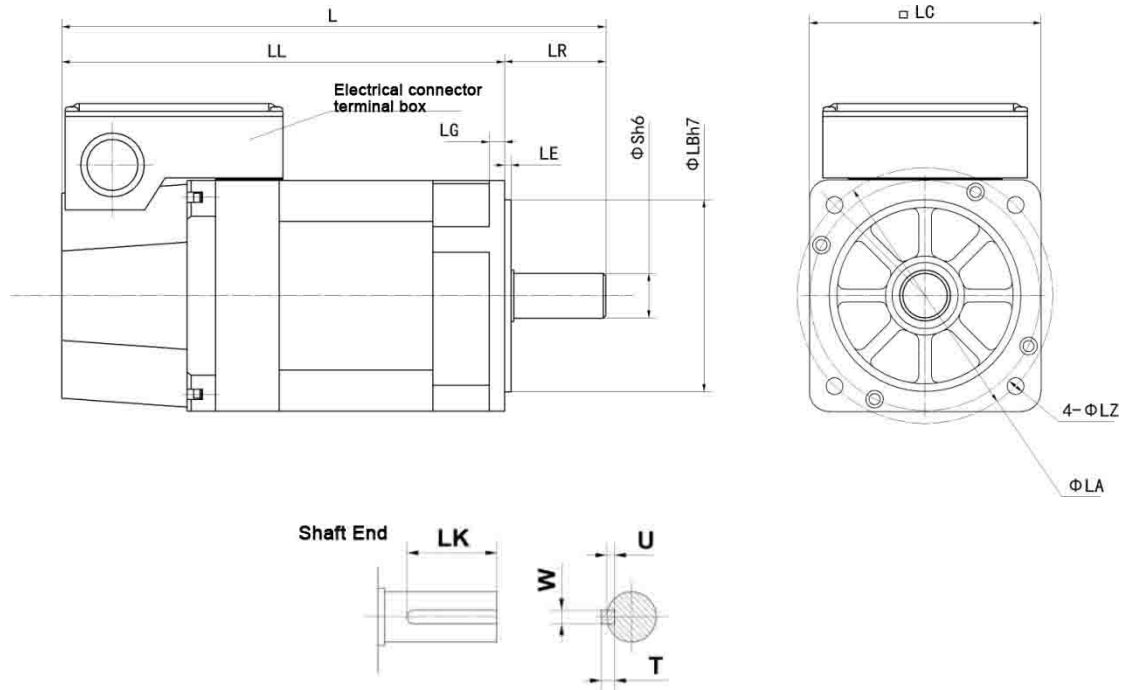
Motor Type	180WMSTP-M55018H□BB△	180WMSTP-M70016H□BB△
Output	10.0 Kw	11.7 Kw
Rated Torque	55.0 Nm	70.0 Nm
Rated Speed	1800 rpm	1600 rpm
Max. Speed	2500 rpm	2500 rpm
Rated current	30.0 A	38.0 A
Moment of Inertia	9.946 Kgm ² ×10 ⁻³ (10.546Kgm ² ×10 ⁻³)	11.896 Kgm ² ×10 ⁻³ (12.496Kgm ² ×10 ⁻³)
Mechanical time constant	1.039 ms	1.041 ms
Max.Current	92.0 A	115 A
Max.Torque	165.0 Nm	210.0 Nm

Max.diameter and axial force:



The Value in parentheses are for moment of inertia with power-off brake

□: Encoder code。



B key

Type	L	LL	LR	LE	LG	LC	LA	LZ	ΦS	LB	T	U	W	LK
180WMSTP-M27020H□BB	416	337	79	5	20	180	200	13.5	$35_{-0.13}^{0-0.1}$	$150_{-0.4}^{0-0.1}$	8	5	10	63
180WMSTP-M36020H□BB	440	361	79	5	20	180	200	13.5	$35_{-0.13}^{0-0.1}$	$150_{-0.4}^{0-0.1}$	8	5	10	63
180WMSTP-M45018H□BB	460	381	79	5	20	180	200	13.5	$35_{-0.13}^{0-0.1}$	$150_{-0.4}^{0-0.1}$	8	5	10	63
180WMSTP-M55018H□BB	494	415	79	5	20	180	200	13.5	$35_{-0.13}^{0-0.1}$	$150_{-0.4}^{0-0.1}$	8	5	10	63
180WMSTP-M70016H□BB	526	447	79	5	20	180	200	13.5	$35_{-0.13}^{0-0.1}$	$150_{-0.4}^{0-0.1}$	8	5	10	63