

The rotor of the AB servo motor is made of high-performance rare earth permanent magnet material, with $high\ power\ density, excellent\ torque\ characteristics, low\ inertia, good\ dynamic\ performance, and\ strong\ overload$ capacity. And it adopts a three-phase sine wave design, with good low-speed smooth characteristics and extremely low torque ripple. It supports optional photoelectric encoders (incremental or absolute) and rotary variable voltage encoders, The servo motor has achieved F-level insulation and IP65 protection level, with built-in temperature protector that can adapt to harsh usage environments. At the same time, it has flexible installation methods and a beautiful appearance.











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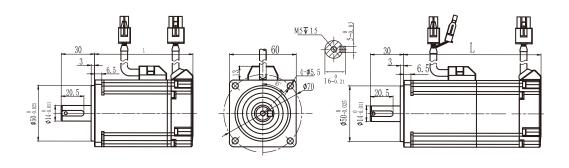


ABTM 60 Flange

AC servo motor

Model
identificationABTM60 ----- 0230E12N01SeriesFlangepowerSpeedEncoderVoltageBrakeWiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



Motor model	ABTM60-0230*	ABTM60-0430*	ABTM60-0630*	
Rated power (kW)	0.2	0.4	0.6	
Rated current (A)	1.4	2.8	4.2	
Rated torque (N·m)	0.64	1.27	1.91	
Rated speed (N·m)	3000	3000	3000	
Instantaneous maximum current (A)	4.2	8.4	12.6	
Instantaneous maximum torque (N·m)	1.92	3.81	5.73	
Instantaneous maximum speed (r/m)	6000	6000	6000	
Rotor inertia (Kg· m² x 10 ⁻⁴)	0.29(0.32)	0.53(0.56)	0.81(0.84)	
Torque coefficient (N·m/A)	0.46	0.45	0.45	
Line resistance (Ω)	8	3.7	2.3	
Line inductance (m)	15	7.6	4.9	
Electrical time constant (ms)	1.9	2.1	2.1	
Motor weight (Kg)	1	1.3	1.7	
L Without brake (mm)	77.2(Thin style)	93.7(Thin style)	113.2(Thin style)	
L With brake(mm)	109.2(Thin style)	125.7(Thin style)	138(Thin style)	
Input voltage (V)	220	220	220	
Extreme logarithm	5	5	5	
Insulation level	F			
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%			
Protection level	IP 65			

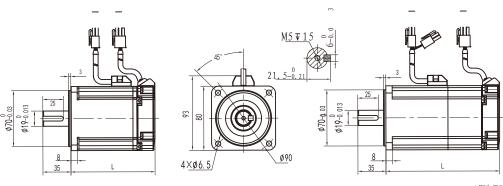
ABTM 80 Flange

AC servo motor

Model
identificationABTM80 ----- 0430E12N01SeriesFlange
powerSpeedEncoderVoltageBrake
VoltageBrake
Wiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)





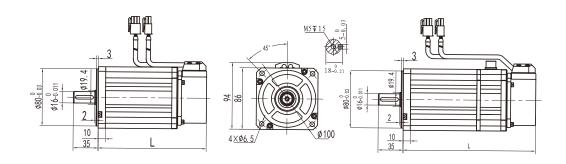
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Motor model	ABTM80-0430*	ABTM80-0730*	ABTM80-1030*		
Rated power (kW)	0.4	0.75	1.0		
Rated current (A)	2	3.8	5.5		
Rated torque (N· m)	1.27	2.4	3.2		
Rated speed (N·m)	3000	3000	3000		
Instantaneous maximum current (A)	6	11.4	16.3		
Instantaneous maximum torque (N·m)	3.8	7.2	9.6		
Instantaneous maximum speed (r/m)	3500	6000	6000		
Rotor inertia (Kg·m² x 10 ⁻⁴)	0.95(1.05)	1.62(1.72)	2.1(2.2)		
Torque coefficient (N·m/A)	0.64	0.6	0.6		
Line resistance (Ω)	2.5	1.33	1.1		
Line inductance (m)	16	5.6	4.8		
Electrical time constant (ms)	6.4	4.2	4.4		
Motor weight (Kg)	1.75	2.5	3.2		
L Without brake (mm)	124	105(Thin style)	119(Thin style)		
L With brake(mm)	164	142(Thin style)	156(Thin style)		
Input voltage (V)	220	220	220		
Extreme logarithm	4	5	5		
Insulation level		F			
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%				
Protection level Protection level	IP 65				

ABTM 90 Flange

Model
identificationABTM90 ----- 0730E12N01SeriesFlangePowerSpeedEncoderVoltageBrakeWiring Method

 $\textbf{Note:} \ The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)$

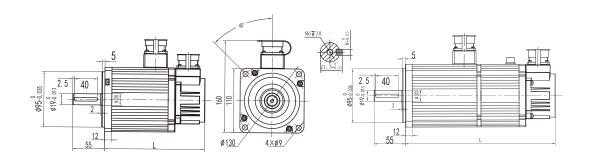


Motor model	ABTM90-0730*	ABTM90-0720*	ABTM90-1025*	
Rated power (kW)	0.75	0.73	1.0	
Rated current (A)	3	3	4	
Rated torque (N·m)	2.39	3.5	4	
Rated speed (N·m)	3000	2000	2500	
Instantaneous maximum current (A)	9	9	12	
Instantaneous maximum torque (N·m)	7.2	10.5	12	
Instantaneous maximum speed (r/m)	3500	2500	3000	
Rotor inertia (Kg⋅m² x 10 ⁻⁴)	2.62(2.82)	3.2(3.4)	3.57(3.77)	
Torque coefficient (N·m/A)	0.8	1.17	1	
Line resistance (Ω)	2.47	2.45	1.99	
Line inductance (m)	14	18.67	13.75	
Electrical time constant (ms)	5.7	7.6	6.9	
Motor weight (Kg)	3	3.7	4.1	
L Without brake (mm)	150	172	182	
L With brake(mm)	198	220	230	
Input voltage (V)	220	220	220	
Extreme logarithm	4	4	4	
Insulation level	F			
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%			
Protection level	IP 65			

ABTM 110 Flange

Model
identificationABTM110 ---- 0630E12N01SeriesFlangePower SpeedEncoderVoltageBrake Wiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



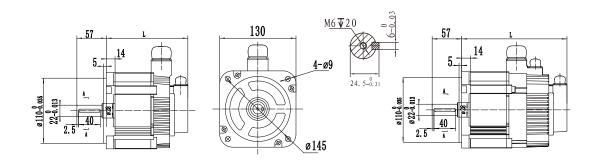
Motor model	ABTM110-0630*	ABTM110-0820*	ABTM110-1230	ABTM110-1530	ABTM110-1220	ABTM110-1830'
Rated power (kW)	0.6	0.8	1.2	1.5	1.2	1.8
Rated current (A)	2.5	3.5	5	6	4.5	7
Rated torque (N⋅m)	2	4	4	5	6	6
Rated speed (N·m)	3000	2000	3000	3000	2000	3000
Instantaneous maximum current (A)	7.5	10.5	15	18	13.5	21
Instantaneous maximum torque (N∙m)	6	12	12	15	18	18
Instantaneous maximum speed (r/m)	3500	2500	3500	3500	2500	3500
Rotor inertia (Kg·m² x 10 ⁻⁴)	4(4.2)	7.3(7.5)	7.3(7.5)	9.2(9.4)	10.8(11.0)	10.8(11.0)
Torque coefficient (N·m/A)	0.8	1.14	0.8	0.8	1.3	0.9
Line resistance (Ω)	3.13	2.49	1.48	1	1.9	0.8
Line inductance (m)	13.1	12.2	6.9	5	9.3	3.9
Electrical time constant (ms)	4.2	4.9	4.7	5	5	4.7
Motor weight (Kg)	3.8	5.2	5.2	6.05	6.65	6.65
L Without brake (mm)	159	189	189	204	219	219
L With brake(mm)	233	263	263	278	293	293
Input voltage (V)	220	220	220	220	220	220
Extreme logarithm	4	4	4	4	4	4
Insulation level	F					
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%					
Protection level			IP 65			

AC Servo Motor220V

ABTM 130 flange

Model
identificationABTM130 ---- 1025E12N01SeriesFlangePowerSpeedEncoderVoltageBrakeWiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



Motor model	ABTM130-0815*	ABTM130-1020*	ABTM130-1315*	ABTM130-1520*	ABTM130-1815*	
Rated power (kW)	0.85	1.0	1.3	1.5	1.8	
Rated current (A)	6.9	5.8	10.7	8	13.8	
Rated torque (N·m)	5.39	4.77	8.34	7.16	11.5	
Rated speed (N·m)	1500	2000	1500	2000	1500	
Instantaneous maximum current (A)	20.7	11.6	32.1	16	41.4	
Instantaneous maximum torque (N·m)	16.17	9.54	25.05	14.32	34.5	
Instantaneous maximum speed (r/m)	3000	3000	3000	3000	3000	
Rotor inertia (Kg· m² x 10 ⁻⁴)	10.9(1213)	6.18(7.41)	16.9(18.13)	9.16(10.39)	21.4(22.63)	
Torque coefficient (N·m/A)	0.78	0.82	0.78	0.9	0.83	
Line resistance (Ω)	1	0.85	0.5	0.65	0.35	
Line inductance (m)	5	12.5	3.2	9.5	2.5	
Electrical time constant(ms)	5	14.7	6.4	14.6	7.14	
Motor weight (Kg)	5.4	5.5	7.2	6.9	9.3	
L Without brake (mm)	135	135	152.5	152.5	170	
L With brake(mm)	187	187	204.5	204.5	222	
Input voltage (V)	220	220	220	220	220	
Extreme logarithm	5	5	5	5	5	
Insulation level	F					
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%					
Protection level	IP 65					

AC Servo Motor380V

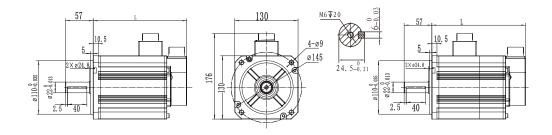
ABTM 130 flange

Model
identificationABTM130 ---- 2625E13N01SeriesFlangepowerSpeedEncoderVoltageBrakeWiring Method

 $\textbf{Note:} \ The \ part \ in \ the \ dashed \ box \ is \ replaced \ by \ "*" \ in \ the \ technical \ parameter \ list \ (the \ same \ applies \ later)$

▼ Without brake

▼ With brake

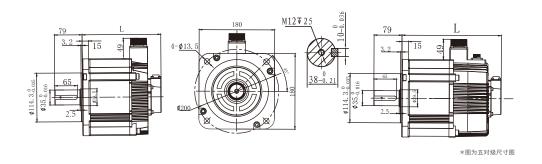


Motor model	ABTM130-1315*	ABTM130-1520*	ABTM130-1815*	A BTM130-2020*	A BTM130-3020*
Rated power (kW)	1.3	1.5	1.8	2.0	3.0
Rated current (A)	6	4.7	8.5	6.2	11
Rated torque (N⋅m)	8.34	7.16	11.5	9.55	14.3
Rated speed (N·m)	1500	2000	1500	2000	2000
Instantaneous maximum current (A)	18	9.4	25.5	12.4	22
Instantaneous maximum torque (N·m)	25.02	14.32	34.5	19.1	28.6
Instantaneous maximum speed (r/m)	3000	3000	3000	3000	3000
Rotor inertia (Kg· m² x 10 ⁻⁴)	16.9(18.13)	9.16(10.39)	21.4(22.63)	12.1(13.33)	18.6(19.83)
Torque coefficient (N·m/A)	1.39	1.52	1.35	1.54	1.3
Line resistance (Ω)	1.54	1.84	1.2	1.29	0.8
Line inductance (m)	10.5	29.5	8.3	23.5	14
Electrical time constant (ms)	6.8	16	6.9	18.2	17.5
Motor weight (Kg)	7.2	6.9	9.3	8.3	10.5
L Without brake (mm)	152.5	152.5	170	170	200
L With brake(mm)	204.5	204.5	222	220	252
Input voltage (V)	380	380	380	380	380
Extreme logarithm	5	5	5	5	5
Insulation level			F		
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%				
Protection level			IP 65		

ABTM 180 Flange

Model
identificationABTM180 ---- 2515E13N01SeriesFlangepowerSpeedEncoderVoltageBrakeWiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



Motor model	ABTM180-2715*	ABTM180-3015*	ABTM180-4520	ABTM180-2915*	ABTM180-4415*	ABTM180-5515*	ABTM180-7515*
Rated power (kW)	2.7	3.0	4.5	2.9	4.4	5.5	7.5
Rated current (A)	10.5	12	16	11.9	16.5	20.8	26
Rated torque (N·m)	17.2	19	21.5	18.6	28.4	35	48
Rated speed (N·m)	1500	1500	2000	1500	1500	1500	1500
Instantaneous maximum current (A)	31.5	36	48	35.7	49.5	62.4	65
Instantaneous maximum torque (N·m)	51.6	57	64.5	55.8	85.2	105	120
Instantaneous maximum speed (r/m)	1650	1800	2150	3000	3000	3000	3000
Rotor inertia (Kg· m² x 10 ⁻⁴)	56.1(62.1)	63.5(69.5)	72.7(78.7)	63.5(69.5)	88.5(94.5)	114(120.4)	136.6(142.)
Torque coefficient (N·m/A)	1.64	1.58	1.34	1.56	1.7	1.7	1.85
Line resistance (Ω)	0.74	0.46	0.28	0.35	0.31	0.25	0.19
Line inductance (m)	7.3	4.7	3	4.3	3.7	2.9	2.3
Electrical time constant (ms)	9.9	10.2	10.7	12.3	11.9	11.6	12.1
Motor weight (Kg)	15.4	16.7	18.4	16.7	21.1	25.6	30.8
L Without brake (mm)	197	205	215	188	215	243	267
L With brake(mm)	244	252	262	235	262	290	314
Input voltage (V)	220	220	220	380	380	380	380
Extreme logarithm	4	4	4	5	5	5	5
Insulation level	F						
Usage environment	Ambient temperature:-20°C~+40°C; Relative humidity<90%						
Protection level	IP65						

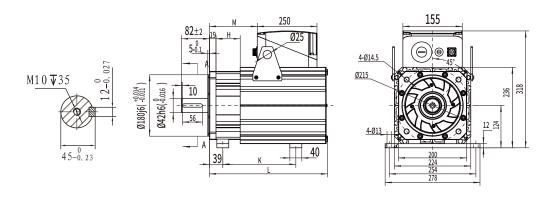
ABTM 200 Flange

Model identificationABTM200 ---- 1115E13N01SeriesFlange powerSpeedEncoderVoltage BrakeWiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)

▼ Without brake

▼ With brake

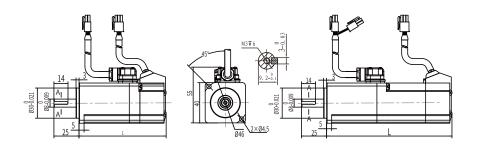


Motor model	ABTM200-10520*	ABTM200-15720*	ABTM200-18115*	ABTM200-23615*	ABTM200-31420*	
Rated power (kW)	10.5	15.7	18.1	23.6	31.4	
Rated current (A)	19.6	29.8	34.5	44.7	59	
Rated torque (N·m)	50	75	115	150	150	
Rated speed (N·m)	2000	2000	1500	1500	2000	
Instantaneous maximum current (A)	48.3	67.6	78.9	112	147	
Instantaneous maximum torque (N· m)	123	170	263	373	373	
Instantaneous maximum speed (r/m)	2500	2500	1700	1700	2500	
Rotor inertia (Kg· m² x 10 ⁻⁴)	98 (118)	128 (148)	188 (208)	248 (268)	248 (268)	
Torque coefficient (N·m/A)	2.6	2.5	3.3	3.3	2.5	
Line resistance (Ω)	0.47	0.35	0.38	0.28	0.12	
Line inductance (m)	11	7.7	9.8	6.5	2.8	
Electrical time constant (ms)	23.4	22.0	25.8	23.2	23.3	
Motor weight (Kg)	45.2	51.9	66	79.8	79.8	
L Without brake (mm)	381、285	416、312	486、395	556、471	556、471	
L With brake(mm)	65、84	115、119	115、189	115、259	115、259	
Input voltage (V)	380	380	380	380	380	
Extreme logarithm	4	4	4	4	4	
Insulation level		F				
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%					
Protection level	IP 54					

ABTDM 40 Flange

Model identification ABTDM 40 ----- E 005 30 E1 B K 01
Series Flange Voltage Power Speed Encoder Brake Out axis style Wiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



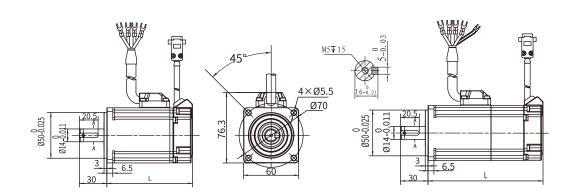
Motor model	ABTDM40-E00530*	ABTDM40-E0130*	ABTDM40-E0130*			
Rated power (kW)	0.05	0.1	0.12			
Rated voltage (V)	24	24	24			
Rated current (A)	3.5	6.5	7			
Rated torque(N·m)	0.16	0.32	0.38			
Maximum torque(N·m)	0.32	0.64	0.76			
Rated speed (r/m)	3000	3000	3000			
Rotor inertia (Kg·m²)	0.035x10 ⁻⁴	0.053x10 ⁻⁴	0.06x10 ⁻⁴			
Torque coefficient (N .m/A)	0.05	0.05	0.05			
Line resistance (Ω)	1.06	0.4	0.47			
Line inductance (Mh)	0.86	0.38	0.45			
Electrical time constant (ms)	0.8	1.0	1.0			
Motor weight (Kg)	0.4	0.5	0.6			
L without brake (mm)	68.5	79.5	86.5			
L with brake(mm)	101.5	112.5	119.5			
Extreme logarithm	5	5	5			
Insulation level		F				
Usage environment	Ambient ten	Ambient temperature: -20°C~+40°C; Relative humidity≤90%				
Protection level		IP 65				

ABTDM 60 Flange

 Model identification
 ABTDM
 60 ---- E
 005
 30
 E1
 B
 K
 01

 Series
 Flange Voltage
 Power
 Speed Encoder
 Brake Out axis style
 Wiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)

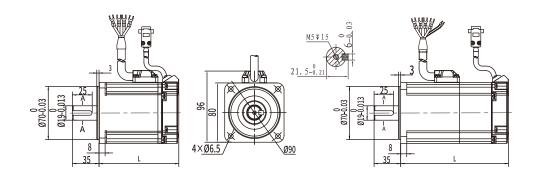


Motor model	ABTDM60-E0230*	ABTDM60-E0430*	ABTDM60-F0230*	ABTDM60-F0430*	ABTDM60-F0630*	
Rated power (kW)	0.2	0.4	0.2	0.4	0.6	
Rated voltage (V)	24	24	48	48	48	
Rated current (A)	12	20	6	10	15	
Rated torque(N·m)	0.64	1.27	0.64	1.27	1.91	
Maximum torque(N·m)	1.91	3.81	1.91	3.81	3.81	
Rated speed (r/m)	3000	3000	3000	3000	3000	
Rotor inertia (Kg·m²)	0.29x10 ⁻⁴	0.53x10 ⁻⁴	0.29x10 ⁻⁴	0.53x10 ⁻⁴	0.81x10 ⁻⁴	
Torque coefficient (N .m/A)	0.053	0.053	0.107	0.127	0.127	
Line resistance (Ω)	0.17	0.1	0.63	0.39	025	
Line inductance (mh)	0.27	0.17	1.12	0.72	0.43	
Electrical time constant (ms)	1.6	1.7	1.8	1.8	1.7	
Motor weight (Kg)	1.0	1.4	1.0	1.4	1.7	
L without brake (mm)	77.2(Thin style)	93.7(Thin style)	96.2	112.7	132.2	
L with brake(mm)	109.2(Thin style)	125.7(Thin style)	128.2	144.7	157	
Extreme logarithm	5					
Insulation level	F					
Usage environment		Ambient temperature: -20°C~+40°C; Relative humidity≤90%				
Protection level			IP 65			

ABTDM 80 Flange

Model ABTDM 80 ---- F 10 30 E1 B K 01 Series Flange Voltage Power Speed Encoder Brake Out axis style Wiring Method

 $\textbf{Note}{:} \ The part in the dashed box is replaced by ``*" in the technical parameter list (the same applies later)$



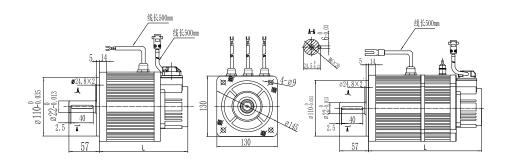
Motor model	ABTDM80-F0730*	ABTDM80-F1030*		
Rated power (kW)	0.75	1.0		
Rated voltage (V)	48	48		
Rated current (A)	20	25		
Rated torque(N·m)	2.4	3.2		
Maximum torque(N·m)	4.8	6.4		
Rated speed (r/m)	3000	3000		
Rotor inertia (Kg·m²)	1.62x10 ⁻⁴	2.1×10 ⁻⁴		
Torque coefficient (N .m/A)	0.12	0.13		
Line resistance (Ω)	0.08	0.05		
Line inductance (mh)	0.27	0.17		
Electrical time constant (ms)	3.4	3.4		
Motor weight (Kg)	2.5	3.4		
L without brake (mm)	105	119		
L with brake(mm)	142	156		
Extreme logarithm	5			
Insulation level	F			
Usage environment	Ambient temperature: -20°C~+40°C; Relative humidity≤90%			
Protection level	IP65			

ABTDM 130 Flange

 Model identification
 ABTDM
 130 ---- F
 10
 30
 E1
 B
 K
 01

 Series
 Flange Voltage
 Power
 Speed
 Encoder Brake Out axis style Wiring Method

Note: The part in the dashed box is replaced by "*" in the technical parameter list (the same applies later)



Motor model	ABTDM130-F1025*	ABTDM130-F1325*	ABTDM130-F1525*	ABTDM130-F2025*	ABTDM130-F2630*			
Rated power (kW)	1.0	1.3	1.5	2.0	5.6			
Rated voltage (V)	48	48	48	48	48			
Rated current (A)	28	31	38	54	70			
Rated torque(N·m)	4	5	6	7.7	10			
Maximum torque(N⋅m)	8	10	12	15.4	20			
Rated speed (r/m)	2500	2500	2500	2500	3000			
Rotor inertia (Kg·m²)	9.6×10 ⁻⁴	10.7x10 ⁻⁴	12.9x10 ⁻⁴	14.1×10 ⁻⁴	18.8×10 ⁻⁴			
Torque coefficient (N .m/A)	0.14	0.16	0.16	0.14	0.14			
Line resistance (Ω)	0.056	0.044	0.038	0.026	0.012			
Line inductance (mh)	0.25	0.2	0.14	0.13	0.05			
Electrical time constant (ms)	4.5	4.5	3.7	5.0	4.2			
Motor weight (Kg)	5.5	5.8	6.6	7.1	8.7			
L without brake (mm)	166	171	179	192	209			
L with brake(mm)	224	229	237	250	282			
Extreme logarithm	4	4	4	4	4			
Insulation level	F	F	F	F	F			
Usage environment	sage environment Ambient temperature: -20°C~+40°C; Relative humidity≤90%							
Protection level	IP65							

Selection and matching table

AC servo system

Rated voltage	Rated power	Rated current	Rated torque (N.m)	Rated speed (r/min)	Servo motor model	Servo drive model
AC220V	0.05	0.6	0.16	3000	ABTM 40-00530*	ABS10-005*/ABS20-005
AC220V	0.1	1.0	0.32	3000	ABTM 40-0130*	ABS10-01*/ABS20-01*
AC220V	0.2	1.4	0.64	3000	ABTM 60-0230*	ABS10-02* /ABS20-02*
AC220V	0.4	2.8	1.27	3000	ABTM 60-0430*	ABS10-04* /ABS20-04*
AC220V	0.6	4.2	1.91	3000	автм 60 - 0630*	ABS10-06* /ABS20-06*
AC220V	0.4	2.0	1.27	3000	АВТМ 80-0430*	ABS10-04* /ABS20-04*
AC220V	0.75	3.8	2.4	3000	ABTM 80-0730*	ABS10-07* /ABS20-07*
AC220V	1.0	5.5	3.2	3000	ABTM 80-1030*	ABS10-10*/ABS20-10*
AC220V	0.75	3	2.39	3000	ABTM 90-0730*	ABS 10-07* /ABS 20-07*
AC220V	0.73	3	3.5	2000	АВТМ 90-0720*	ABS 10-07*/ ABS 20-07*
AC220V	1.0	4	4	2500	автм 90-1025*	ABS10-10*/ABS20-10*
AC220V	0.6	2.5	2	3000	АВТМ 110-0630*	ABS 10-06* /ABS 20-06*
AC220V	0.8	3.5	4	2000	АВТМ 110-0820*	ABS10-08* /ABS20-08*
AC220V	1.2	5	4	3000	ABTM 110-1230*	ABS 10-12* /ABS 20-12*
AC220V	1.5	6	5	3000	ABTM 110-1530*	ABS 10-15*/ABS 20-15*
AC220V	1.2	4.5	6	2000	АВТМ 110-1220*	ABS10-12* /ABS20-12*
AC220V	1.8	7	6	3000	ABTM 110-1830*	ABS10-18* /ABS20-18*
AC220V	0.85	6.9	5.39	1500	АВТМ 130-0815*	ABS 10-08* /ABS 20-08*
AC220V	1.0	5.8	4.77	2000	ABTM 130-1020*	ABS 10-10* /ABS 20-10*
AC220v	1.3	10.7	8.34	1500	ABTM 130-1315*	ABS 10-13* /ABS 20-13*
AC220V	1.5	8.0	7.16	2000	ABTM 130-1520*	ABS 10-15* /AB S20-15*
AC220V	1.8	13.8	11.5	1500	ABTM 130-1815*	ABS 10-18* /AB S20-18*
AC220V	2.7	10.5	17.2	1500	AВТМ 180-2715*	ABS 10-27*/ABS20-27*
AC220V	3.0	12	19	1500	АВТМ 180-3015*	ABS 10-30* /ABS 20-30*
AC220V	4.5	16	21.5	2000	ABTM 180-4520*	ABS 10-45* /AB S20-45*
AC380V	1.3	6.0	8.34	1500	ABTM 130-1315*	ABS 10-13* /AB S20-13*
AC380V	1.5	4.7	7.16	2000	ABTM 130-1520*	ABS10-15* /ABS20-15*
AC380V	1.8	8.5	11.5	1500	ABTM 130-1815*	ABS10-18*/ABS20-18*
AC380V	2.0	6.2	9.55	2000	ABTM 130-2020*	ABS 10-20* /AB S20-20*
AC380V	3.0	11	14.3	2000	ABTM 130-3020*	ABS10-30* / ABS20-30*