I.CH MOTION CO., LTD
MOTION WORLD

I.CH AC RE-SYNCHRO MOTOR



I.CH Motor supply a complete range of AC Re-Synchronous motor.
Structure and Characteristic of AC Re-Synchronous Motor

Product Number Code For Re-Reversible Synchronous Motor

S 50 2 xx xx

- S: SYNCHRONOUS MOTOR
- 50: Dia. Of motor
- 2: 1 : AC synchronous Motor; 2 : Oven Motor; 3: Reversible Motor; 4: Hysteresis
- xx: Torque, 12= 12kg.cm
- xx: Speed: 1.6 = 1.6rpm

AC Reversible Synchronous Motor S493 (Size 49mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Picture

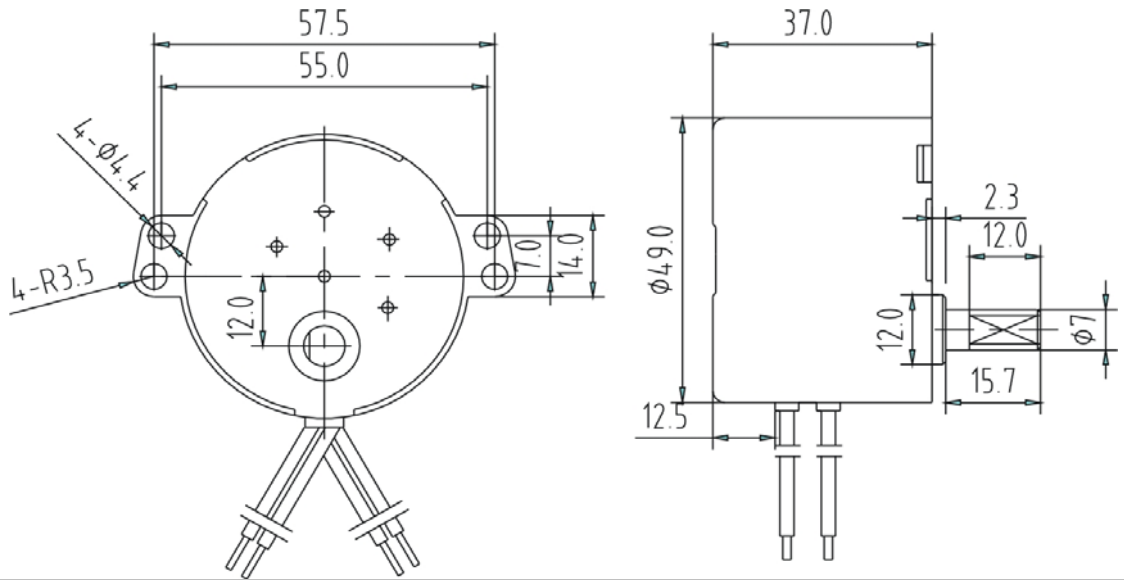

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS

Specification

Model	Output speed (rpm)	Output Torque (kg.cm / lb.in) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S493-45-1.0	1.04	45 / 39	60 / 52.2	70 / 60.9	24 ********* 110 ********* 220	<0.2 ********** <0.05 ********* <0.023	50/60Hz	2.5~7	<45	CW / CCW / Bi-directional
S493-30-1.5	1.50	30 / 26	40 / 34.8	46 / 40						
S493-22-2.0	2	22 / 19	30 / 26	35 / 30.5						
S493-18-2.5	2.5	18 / 15.7	24 / 20.9	28 / 24.4						
S493-11-4.0	4	11 / 9.6	15 / 13	17.5 / 15.2						
S493-09-4.8	4.8	9.4 / 8.2	12.5 / 10.9	14.5 / 12.6						
S493-09-5.0	5	9 / 7.8	12 / 10.4	14 / 12.2						
S493-08-5.8	5.8	7.6 / 6.6	10 / 8.7	12 / 10.4						
S493-05-9.0	9	5 / 4.35	6.5 / 5.7	7.8 / 6.8						
S493-03-15	15	3 / 2.6	4 / 3.5	4.6 / 4						
S493-02-25	25	1.8 / 1.57	2.4 / 2.1	2.8 / 2.43						
S493-02-30	30	1.5 / 1.3	2 / 1.74	2.3 / 2						
S493-01-45	45	1 / 0.87	1.3 / 1.13	1.5 / 1.3						
S493-01-60	60	0.75	1 / 0.87	1.2 / 1.04						
S493-01-75	75	0.6	0.8 / 0.7	1.0 / 0.87						

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S593A(size59mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS

Picture

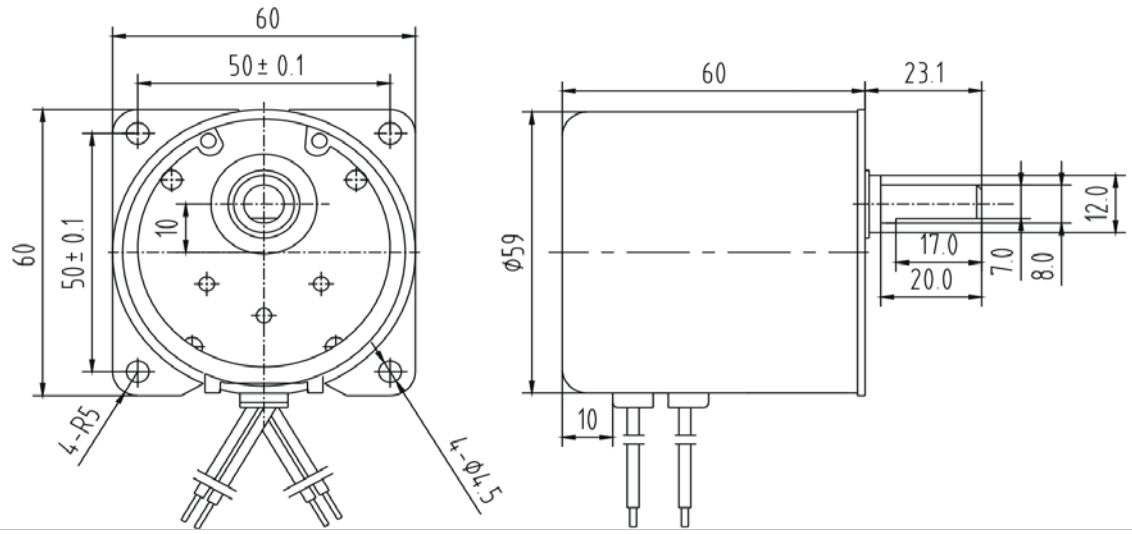


Specification

Model	Output speed (rpm)	Output Torque (kg.cm / lb.in) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S593-80-1.6	1.6	>80 / 70	If intermittent running, low-speed motor can output 150kg.cm torque, it is a customization for you. Welcome to contact us freely!		24 ********* 110 ********* 220	<0.3 ********** <0.065 ********* <0.032	50/60Hz	<16	<40	CW / CCW / Bi-directional
S593-80-02	2	>80 / 70								
S593-80-2.5	2.5	>80 / 70								
S593-80-03	3	80 / 70								
S593-60-04	4	60 / 52.2								
S593-50-05A	5	50 / 43.5								
S593-30-08	8	30 / 26								
S593-25-10	10	25 / 21.8								
S593-20-12	12	20 / 17.4								
S593-16-15	15	16 / 13.9	29 / 25.2	35 / 30.5						
S593-12-20	20	12 / 10.4	22 / 19.1	26 / 22.6						
S593-10-25	25	10 / 8.7	17 / 14.8	21 / 18.2						
S593-08-30	30	8 / 7	15 / 13	17.5 / 15.2						
S593-05-50	50	5 / 4.35	9 / 7.8	10.5 / 9.1						
S593-05-60	60	4.5 / 3.9	7 / 6	8.8 / 7.7						
S593-03-99	99	2.5 / 2.17	4.5 / 3.5	5.3 / 4.6						

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S593B(size59mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Picture

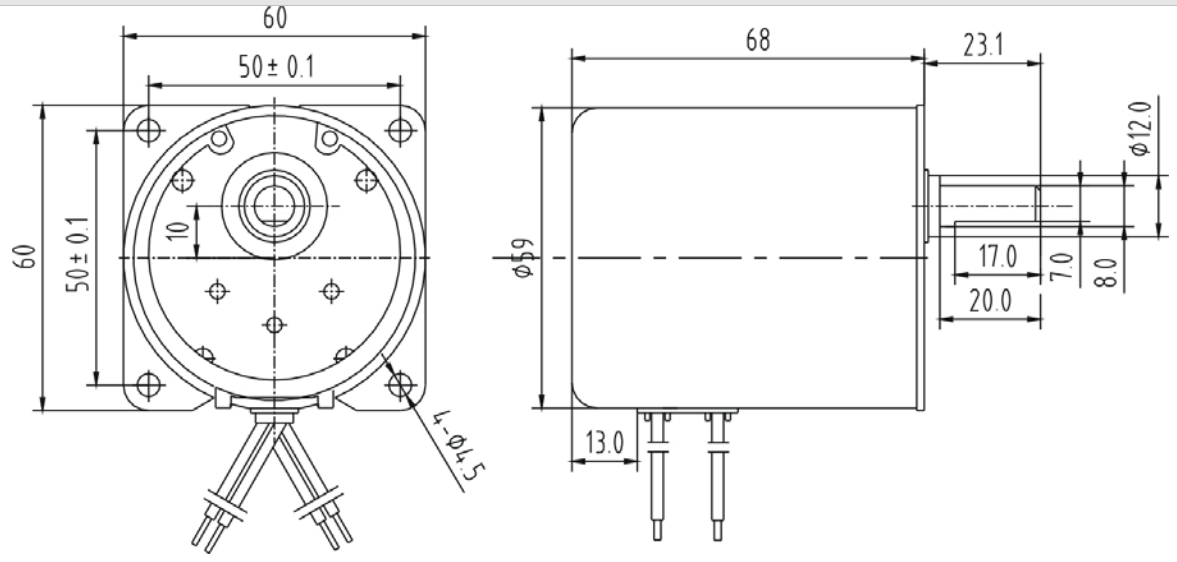

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS

Specification

Model	Output speed (rpm)	Output Torque (kg.cm / lb.in) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S593-26-15	15	26 / 22.6	36 / 31.3	42 / 36.5	24 ********* 110 ********* 220	<0.9 ********** <0.2 ********* <0.1	50/60Hz	<20	<45	CW / CCW / Bi-direction al
S593-20-20	20	20 / 17.4	28 / 24.4	32 / 27.8						
S593-16-25	25	16 / 13.9	22 / 19.1	25 / 21.8						
S593-13-30	30	13 / 11.3	18 / 15.7	13 / 11.3						
S593-08-50	50	8 / 7	11 / 9.6	21 / 18.3						
S593-07-60	60	6.5 / 5.65	9 / 7.8	10 / 8.7						
S593-04-99	99	4 / 3.5	5.6 / 4.9	6.5 / 5.7						

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S593C(size59mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Picture

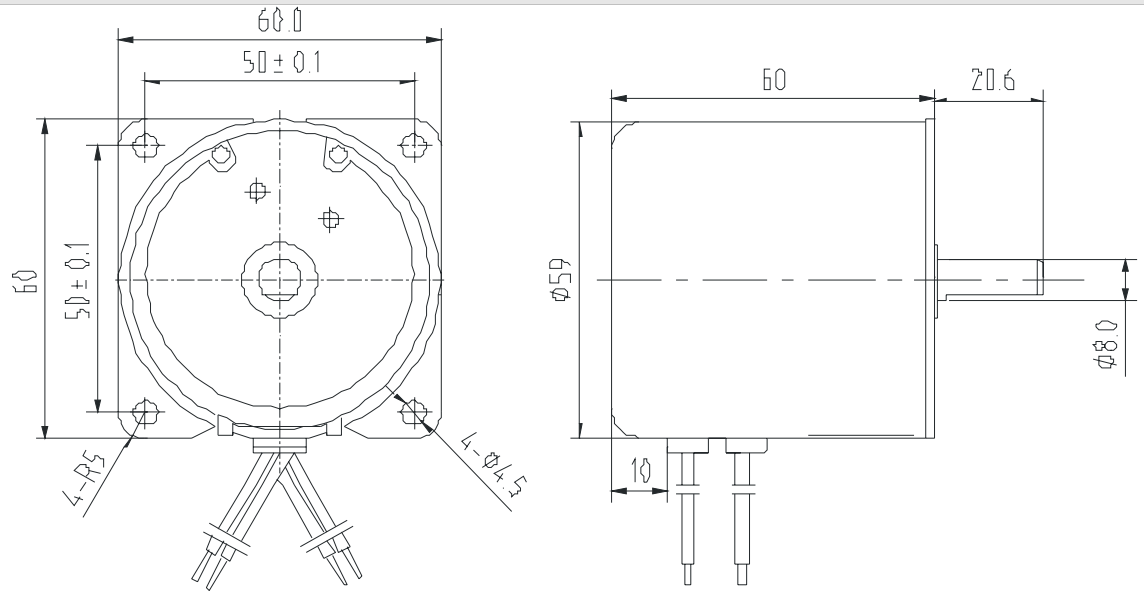

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS CCC

Specification

Model	Output speed (rpm)	Output Torque (kg.cm / lb.in) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S593-50-05B	5	50/43.5	80 / 69.6	100 / 87	24 ********* 110 ********* 220	<0.3 ********** <0.065 ********* <0.032	50/60Hz	<16	<40	CW / CCW / Bi-direction al
S593-25-10	10	25 / 21.8	45 / 39.2	52 / 45.2						
S593-20-12	12	20 / 17.4	37 / 32.2	43 / 37.4						
S593-16-15	15	16 / 13.9	29 / 43.5	35 / 30.5						
S593-12-20	20	12/ 10.4	22 / 19.1	26 / 22.6						
S593-08-30	30	8 / 7	15/ 13	17.5 / 15.2						
S593-04-60	60	4/3.5	7/6	8.8/7.7						
S593-03-98	98	2.5 / 2.18	4.5/ 3.9	5.3 / 4.6						

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S593D(size59mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS CCC

Picture

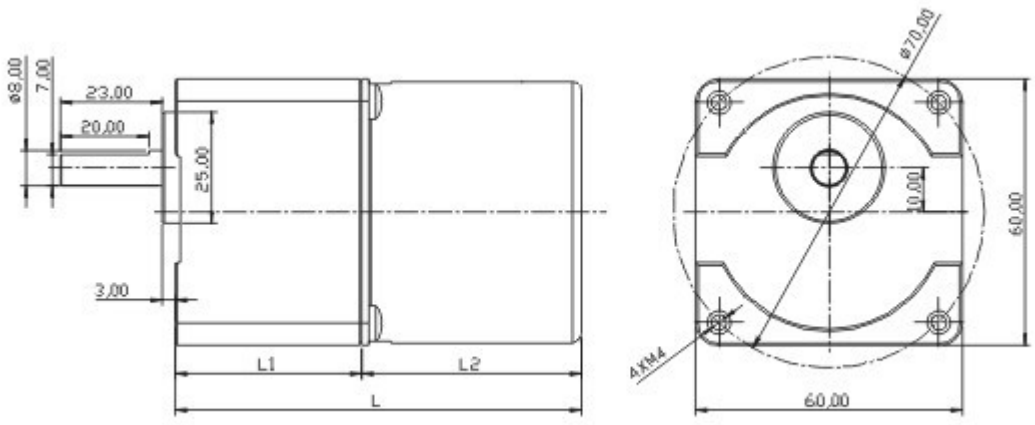


Specification

Model	Output speed (rpm)	Output Torque (kg.cm)		Gear box	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
		L2=41mm	L2=50mm	L1						
S593-66-05	5.3	66	103	42mm	24 ********* 110 ********* 220	<0.9 ********** <0.2 ********* <0.1	50/60Hz	<20	<45	CW / CCW / Bi-directional
S593-56-06	6.2	56	88							
S593-46-07	7.5	46	73							
S593-37-09	9.4	37	58							
S593-28-13	12.5	28	44							
S593-22-19	18.8	22	32	31mm						
S593-19-22	22	18.8	27							
S593-16-25	25	16	24							
S593-13-30	30	13	20							
S593-11-38	37.5	11	16							
S593-08-50	50	8	12							

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S593E(size59mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Picture

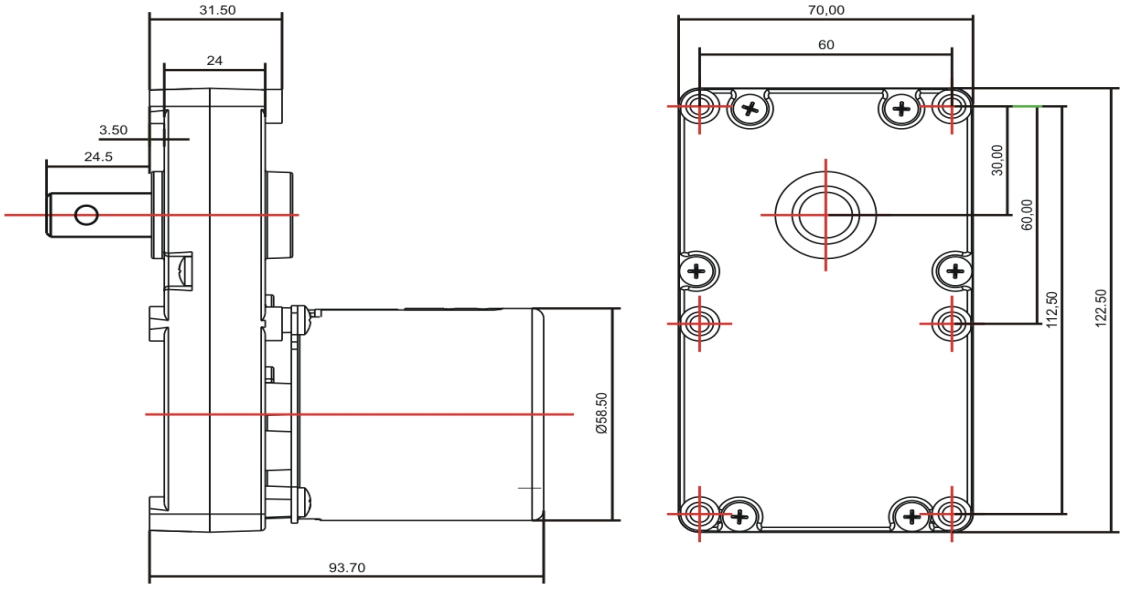

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS

Specification

Model	Output speed (rpm)	Output Torque (kg.cm) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S593-200-005	0.05	200			24 ********* 110 ********* 220	<0.9 ********** <0.2 ********* <0.1	50/60Hz	<20	<45	CW / CCW / Bi-directional
S593-200-008	0.08	200								
S593-200-011	0.11	200								
S593-200-016	0.16	200								
S593-200-025	0.25	200								
S593-200-033	0.33	200								
S593-200-050	0.5	200								
S593-200-066	0.66	200								
S593-180-083	0.83	180								
S593-150-200	2	150								
S593-150-330	3.3	150								

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions



AC Reversible Synchronous Motor S643(size64mm)

Application
Household Electrical Appliances, Laminator, Auto Control Machine Spotlight, etc.

Safety	
Insulation resistance	DC 500V 100M ohms
Insulation strength	AC1500V, 50Hz/min(220V motor)
Insulation class	E(105℃) / B(130℃)
Environment	Temp.-10℃~+40℃ / Humidity: <85
Certification	CE RoHS

Picture



Specification

Model	Output speed (rpm)	Output Torque (kg.cm / lb.in) S1 continuous	S2 15 minutes	S2 5 minutes	Voltage (V.AC)	Current (A)	Frequency (Hz)	Input Power (W)	Noise (dB)	Rotation
S643-30-15	15	30 / 26.1	40 / 34.8	60 / 52.2	24 ********* 110 ********* 220	<0.9 ********** <0.2 ********* <0.1	50/60Hz	<20	<45	CW / CCW / Bi-directional
S643-22-20	20	22 / 19.1	30 / 26.1	45 / 39.2						
S643-18-25	25	18 / 15.7	24 / 20.9	36 / 31.						
S643-15-30	30	15 / 13	20 / 17.4	30 / 26.1						
S643-12-40	40	11.5 / 10	15 / 13	22.5 / 19.8						
S643-09-50	50	9 / 7.8	12 / 10.4	18 / 15.7						
S643-08-60	60	7.5 / 6.5	10 / 8.7	15 / 13						
S643-07-70	70	6.4 / 5.6	8.6 / 7.5	12.8 / 11.1						
S643-06-80	80	5.6 / 4.9	7.5 / 6.5	11 / 9.6						
S643-05-99	99	4.5 / 3.9	6 / 5.2	9 / 7.8						
S643-03-152	152	3 / 2.6	4 / 3.5	6 / 5.2						

Note: Above datas are from motors under 50Hz. If under 60Hz, Speed*1.2 , Torque/1.2
Other speed and torque needed, please contact our sale department

Mechanical Dimensions

