40W
60W

□90×90mm

MOTOR PERFORMANCE

MODEL		(W) MAXIMUM OUTPUT POWER	V VOLTAGE	Hz FREQUENCY	A CURRENT	r/min SPEED RANGE	N·mm START TORQUE	(N·mm) RATED TORQUE 1200r/min	(N·mm) RATED TORQUE 90r/min	RUNNING CAPACITOR
GEAR SHAFT	90YS40GV11 90YR40GV11 90YT40GV11 90YF40GV11 90YB40GV11	40	Single phase 110	50Hz	0.79	90-1300	235	300	65	10μf/250V
ROUND SHAFT	90YS40DV11 90YR40DV11 90YT40DV11 90YF40DV11 90YB40DV11			60Hz	0.71	90-1600	180	260	70	
GEAR SHAFT	90YS40GV22 90YR40GV22 90YT40GV22 90YF40GV22 90YB40GV22	40	Single phase 220	50Hz	0.40	90-1300	235	320	65	3μf/450V
ROUND SHAFT	90YS40DV22 90YR40DV22 90YT40DV22 90YF40DV22 90YB40DV22			60Hz	0.37	90-1600	180	260	70	
GEAR SHAFT	90YS40GY22 90YB40GY22	40	Three phase 220	50Hz	0.35	90-1300	403	310		
ROUND SHAFT	90YS40DY22 90YB40DY22			60Hz	0.32	90-1600	338	260		
GEAR SHAFT	90YS40GY38 90YB40GY38	40	Three phase 380	50Hz	0.21	90-1300	403	310		
ROUND SHAFT	90YS40DY38 90YB40DY38			60Hz	0.19	90-1600	338	260		

•Although the speed range of the motor is 50Hz, 90~1300r/min, 60Hz, 90~1600r/min, it easily causes overload and the cooling effect of the motor fan is poor if the speed is too low (<400r/min) and the motor torque decreases too much; therefore, please keep sufficient power margin and avoid operating in low speed section frequently. The optimal speed range of the motor is 50Hz, 400~1300r/min, 60Hz, 400~1600r/min.

•When the power is cut off, the motor will stop immediately and hold the load.

MOTOR PERFORMANCE

MODEL		(W) MAXIMUM OUTPUT POWER	V VOLTAGE	Hz FREQUENCY	A CURRENT	r/min SPEED RANGE	N·mm START TORQUE	(N·mm) RATED TORQUE 1200r/min	(N·mm) RATED TORQUE 90r/min	RUNNING CAPACITOR
GEAR SHAFT	90YS60GV11 90YR60GV11 90YT60GV11 90YF60GV11 90YB60GV11	60	Single phase 110	50Hz	1.26	90-1300	350	490	200	14μf/250V
ROUND SHAFT	90YS60DV11 90YR60DV11 90YT60DV11 90YF60DV11 90YB60DV11			60Hz	1.14	90-1600	280	490	220	
GEAR SHAFT	90YS60GV22 90YR60GV22 90YT60GV22 90YF60GV22 90YB60GV22	60	Single phase 220	50Hz	0.62	90-1300	350	490	200	4μf/450V
ROUND SHAFT	90YS60DV22 90YR60DV22 90YT60DV22 90YF60DV22 90YB60DV22			60Hz	0.57	90-1600	280	490	220	
GEAR SHAFT	90YS60GY22 90YB60GY22	60	Three phase 220	50Hz	0.53	90-1300	600	460		
ROUND SHAFT	90YS60DY22 90YB60DY22			60Hz	0.48	90-1600	490	375		
GEAR SHAFT	90YS60GY38 90YB60GY38	60	Three phase 380	50Hz	0.32	90-1300	600	460		
ROUND SHAFT	90YS60DY38 90YB60DY38			60Hz	0.29	90-1600	490	375		

•Although the speed range of the motor is 50Hz, 90~1300r/min, 60Hz, 90~1600r/min, it easily causes overload and the cooling effect of the motor fan is poor if the speed is too low (<400r/min) and the motor torque decreases too much; therefore, please keep sufficient power margin and avoid operating in low speed section frequently. The optimal speed range of the motor is 50Hz, 400~1300r/min, 60Hz, 400~1600r/min.

•When the power is cut off, the motor will stop immediately and hold the load.

REDUCTION RATIO PERFORMANCE CHART

REDUCTION RATIO			3	3.6	5	6	7.5	10	12.5	15	18	20	25	30
40W	50Hz	r/min Output bearing speed	433	361	260	217	173	130	104	87	72	65	52	43
		N·m Rated torque	0.77	0.92	1.28	1.53	1.92	2.56	3.20	3.83	4.60	5.11	5.73	6.88
	60Hz	r/min Output bearing speed	533	444	320	267	213	160	128	107	89	80	64	53
		N·m Rated torque	0.64	0.77	1.07	1.28	1.60	2.13	2.66	3.20	3.83	4.26	4.78	5.73
60W	50Hz	r/min Output bearing speed	433	361	260	217	173	130	104	87	72	65	52	43
		N·m Rated torque	1.19	1.43	1.98	2.38	2.98	3.97	4.35	5.22	6.27	6.96	8.26	9.92
	60Hz	r/min Output bearing speed	533	444	320	267	213	160	128	107	89	80	64	53
		N·m Rated torque	0.99	1.19	1.65	1.98	2.48	3.31	3.63	4.35	5.22	5.80	6.89	8.26
REDUCTION RATIO			36	40	50	60	75	90	100	120	150	180	200	
40W	50Hz	r/min Output bearing speed	36	33	26	22	17	14	13	11	9	7	7	
		N·m Rated torque	8.25	9.17	10	10	10	10	10	10	10	10	10	
	60Hz	r/min Output bearing speed	44	40	32	27	21	18	16	13	11	9	8	
		N·m Rated torque	6.88	7.64	9.16	10	10	10	10	10	10	10	10	
60W	50Hz	r/min Output bearing speed	36	33	26	22	17	14	13	11	9	7	7	
		N·m Rated torque	11.90	13.22	16.53	19.83	20	20	20	20	20	20	20	
	60Hz	r/min Output bearing speed	44	40	32	27	21	18	16	13	11	9	8	
		N·m Rated torque	9.92	11.02	13.77	16.53	20	20	20	20	20	20	20	

- The speed in the table is the value of average motor speed (50Hz: 1300r/min, 60Hz: 1600r/min) divided by the reduction ratio.
- The actual speed changes according to the load (±8%).

STANDARD GEARBOX
90GF □H

EARED GEARBOX
90GF □HE

RIGHT ANGLE HOLLOW GEARBOX
L90GF □RC

RIGHT ANGLE SOLID GEARBOX
L90GF □RT

□ in gearbox model indicates the reduction ratio (1:3~200)