



### Specs



Motor output		25W								
Round shaft	8R25S-1M	8R25S-2M		8I25S-3M		8R25S-2ME	8I25S-3ME			
						8R25S-2M3C	8I25S-3M3C			
Pinion shaft	8R25P-1M	8R25P-2M		8I25P-3M		8R25P-2ME	8I25P-3ME			
						8R25P-2M3C	8I25P-3M3C			
Motor	Capacity of capacitor (μF)	8		2		-		1.5	-	
	Power input (V)	Single phase 110	Single phase 110	Single phase 220	Single phase 230	Three Phase 230		Single phase 230	Three Phase 230	
		Power frequency (Hz)		60				50		
	Rated current (A)	0.69	0.70	0.32	0.33	0.23		0.26	0.28	
	Starting torque (kgcm)	1.40		1.40		1.70		1.60	2.20	
	Rated torque (kgcm)	1.70		1.70		1.70		2.06	2.20	
	Rated speed (r/min)	1500		1500		1500		1250	1200	
	Permissible inertia (GD <sup>2</sup> )	1.2 kgcm <sup>2</sup>								
	Ambient temperature	Single phase 110V/115V : -10~+50°C ; Single phase 220V/230V : -10~+40°C								
	Ambient humidity	Max.85%RH								
Braker	Power input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230		
	Power frequency (Hz)	60						50		
	Consumption current (A)	0.13	0.13	0.07	0.07	0.07	0.07	0.07		
	Consumption power (W)	7.4								
	Static friction torque (kgcm)	2.5								

### 8R25P-□M(E/3C)/8R25P-3M(E/3C)+8A□Series Gearhead Specs & Permissible Torque/ Permissible Inertial Load(GD<sup>2</sup>)When Gearhead Attached

Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	
60 Hz	Rotation speed (r/min)	600	500	360	300	240	200	180	144	120	100	90	72	60	
	Permissible torque(kgcm)	-1M,-2M type	4.6	5.5	7.7	9.2	11.5	13.8	15.3	19.1	23	27.5	31	37	44
		-3M type	4.6	5.5	7.7	9.2	11.5	13.8	15.3	19.1	23	27.5	31	37	44
50 Hz	Rotation speed (r/min)	500	417	300	250	200	167	150	120	100	83	75	60	50	
	Permissible torque(kgcm)	-2ME,-2M3C type	5.6	6.7	9.3	11.1	13.9	16.7	18.5	23.2	27.8	33.4	37	44	53
		-3ME,-3M3C type	5.9	7.1	9.9	11.9	14.9	17.8	19.8	24.8	29.7	35.6	39.6	47	57
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )		10.8	15.6	30	43.2	67.5	97.2	120	187.5	270	389	480	750	1080	
Gear ratio		36	50	60	75	90	100	120	150	180	200	250	300	360	
60 Hz	Rotation speed (r/min)	50	36	30	24	20	18	15	12	10	9	7	6	5	
	Permissible torque(kgcm)	-1M,-2M type	53	73	88	110	132	146	150						
		-3M type	53	73	88	110	132	150	150						
50 Hz	Rotation speed (r/min)	42	30	25	20	17	15	13	10	8	8	6	5	4	
	Permissible torque(kgcm)	-2ME,-2M3C type	64	89	106	133	150		150						
		-3ME,-3M3C type	68	95	114	142	150		150						
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )		1555	3000					3000							

※1 : Gearhead 8A□series , please enter the gear ratio 3~360 in the box□

※2 : 60Hz : The max synchronous speed is 1800r/min ; 50Hz : The max synchronous speed is 1500r/min

※3 : 「Permissible torque」 : It refers to the value of load torque driven by the gearhead's output.Each value is shown for the corresponding gear ratio. -1M type:It indicates 8R25P-□M is single phase 110V/115V 60Hz ; -2 type:Single phase 220V/230V 60Hz ; -2E/23C type:Single phase 230V 50Hz ; the other types please refer to the above table.

※4 : A colored   background indicates gear shaft rotation in the opposite direction as the motor shaft.No marking indicates rotation in the same direction

## ■ Permissible Overhung Load/Permissible Thrust Load

Round shaft type

Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
8R25S-□M(E/3C) 8I25S-3M(E/3C)	9	14	Permissible thrust load do not exceed the weight of motor 1/2.If exceed the rated weight will decrease the service life of motor. Please using indirect transmission machinery such as coupling, belt,chain.As the applications which will need the thrust load

Pinion shaft type(Gearhead attached)

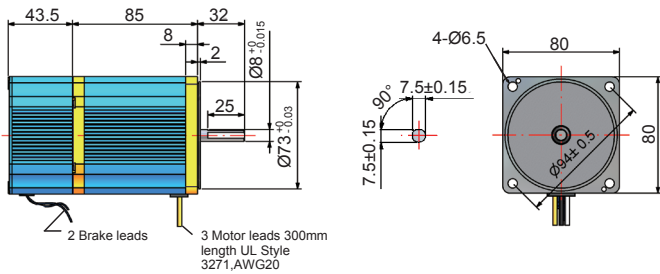
Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit:kg f)
		10mm from shaft end	20mm from shaft end	
8R25P-□M(E/3C) 8I25P-3M(E/3C)	3, 3.6, 5	20	25	5
	6, 7.5, 9, 10, 12.5, 15, 18, 20	30	35	
	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	45	55	

## ■ Dimensions

Unit : mm

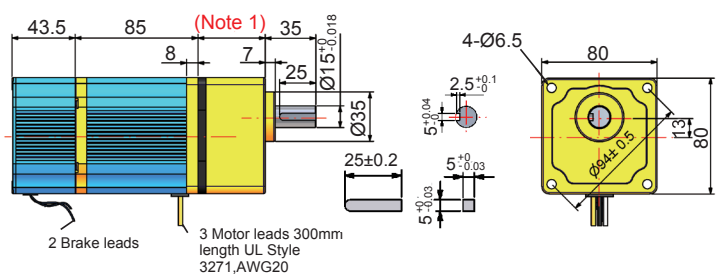
Round shaft type 8R25S-□M(E/3C) / 8R25S-3M(E/3C)

Motor Weight : 2700g

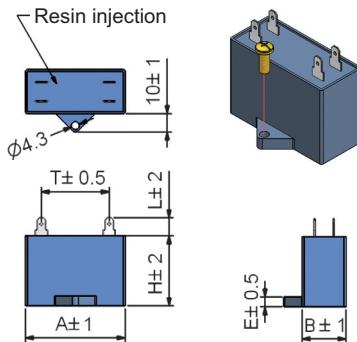


Pinion shaft type 8R25P-□M(E/3C)+6A□ / 8R25P-3M(E/3C)+8A□

Motor Weight : 2680g



## ■ Capacitor Dimensions (Included with single phase motors)



\*(Note 1)

8A□ Gearhead Length/Weight		
Model	Length (mm)	Weight (g)
8A3~8A100	46.5	880
8A120~8A360	50.5	940

※We also have gearhead 8A□N with shaft Ø10. For details please refer to the P.4

Capacity of capacitor (µF/VAC)	A	B	H	L	T	E
8/250	48	19	29	10	34	5
2/450	38	20	29	8	24	4.5
1.5/450	38	17	26	9	24	5

Common technical information

Product number code

Induction motor

Reversible motor

Speed control motor

Electromagnetic brake motor

Torque motor



### Specs

Motor output		40W								
Round shaft	9R40S-1M		9R40S-2M		9I40S-3M		9R40S-2ME	9I40S-3ME		
							9R40S-2M3C	9I40S-3M3C		
Pinion shaft	9R40P-1M		9R40P-2M		9I40P-3M		9R40P-2ME	9I40P-3ME		
							9R40P-2M3C	9I40P-3M3C		
Motor	Capacity of capacitor (μF)	12		3.5		—		2.5	—	
	Power input (V)	Single phase 110	Single phase 110	Single phase 220	Single phase 230	Three Phase 230		Single phase 230	Three Phase 230	
		Power frequency (Hz)		60				50		
	Rated current (A)	0.97	1.00	0.59	0.61	0.36		0.38	0.42	
	Starting torque (kgcm)	2.70		2.70		2.70		3.20	4.50	
	Rated torque (kgcm)	2.84		2.84		2.70		3.30	3.50	
	Rated speed (r/min)	1450		1450		1500		1250	1200	
	Permissible inertia (GD <sup>2</sup> )	3 kgcm <sup>2</sup>								
	Ambient temperature	Single phase 110V/115V : -10~+50°C ; Single phase 220V/230V : -10~+40°C								
	Ambient humidity	Max.85%RH								
Braker	Power input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230		
	Power frequency (Hz)	60						50		
	Consumption current (A)	0.08	0.09	0.04	0.04	0.04	0.04	0.04		
	Consumption power (W)	6.2								
	Static friction torque (kgcm)	2.5								

※9R40□-□M(E/3C)holding torque is 400gcm(But at the initial the holding torque may lower than 400gcm) ; over rotation around 6 rev/min(Reference value)


### 9R40P-□M(E/3C) / 9I40P-3M(E/3C)+9A□Series Gearhead Specs & Permissible Torque/ Permissible Inertial Load(GD<sup>2</sup>)When Gearhead Attached

Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	
60 Hz	Rotation speed (r/min)	600	500	360	300	240	200	180	144	120	100	90	72	60	
	Permissible torque(kgcm)	-1M,-2M type	7.7	9.2	12.8	15.3	19.2	23	25.6	32	38.3	46	51	61	73
		-3M type	7.3	8.7	12.2	14.6	18.2	21.9	24.3	30.4	36.5	43.7	48.6	58	70
50 Hz	Rotation speed (r/min)	500	417	300	250	200	167	150	120	100	83	75	60	50	
	Permissible torque(kgcm)	-2ME,-2M3C type	8.9	10.7	14.9	17.8	22.3	26.7	29.7	37.1	44.6	53.5	59	71	85
		-3ME,-3M3C type	9.5	11.3	15.8	18.9	23.6	28.4	31.5	39.4	47.3	56.7	63	75	90
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )		27	39	75	108	169	243	300	469	675	972	1200	1875	2700	
Gear ratio		36	50	60	75	90	100	120	150	180	200	250	300	360	
60 Hz	Rotation speed (r/min)	50	36	30	24	20	18	15	12	10	9	7	6	5	
	Permissible torque(kgcm)	-1M,-2M type	88	122	147	183	220	244	276	345	400				
		-3M type	84	116	139	174	209	232	262	328	394	400			
50 Hz	Rotation speed (r/min)	42	30	25	20	17	15	13	10	8	8	6	5	4	
	Permissible torque(kgcm)	-2ME,-2M3C type	102	142	170	213	255	284	321	400					
		-3ME,-3M3C type	108	151	181	226	271	301	340	400					
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )		3888	7500					7500							

※1 : Gearhead 9A□series · please enter the gear ratio 3~360 in the box□

※2 : 60Hz : The max synchronous speed is 1800r/min ; 50Hz : The max synchronous speed is 1500r/min

※3 : 「Permissible torque」 : It refers to the value of load torque driven by the gearhead's output. Each value is shown for the corresponding gear ratio. -1M type: It indicates 9R40P-□M is single phase 110V/115V 60Hz ; -2ME/-2M3C type: Single phase 230V 50Hz ; the other types please refer to the above table.

※4 : A colored  background indicates gear shaft rotation in the opposite direction as the motor shaft.No marking indicates rotation in the same direction

## ■ Permissible Overhung Load/Permissible Thrust Load

Round shaft type

Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
9R40S-□M(E/3C) 9I40S-3M(E/3C)	14	20	Permissible thrust load do not exceed the weight of motor 1/2.If exceed the rated weight will decrease the service life of motor. Please using indirect transmission machinery such as coupling, belt,chain.As the applications which will need the thrust load

Pinion shaft type(Gearhead attached)

Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit:kg f)
		10mm from shaft end	20mm from shaft end	
9R40P-□M(E/3C)	3, 3.6, 5	50	60	15
	6, 7.5, 9, 10, 12.5, 15, 18, 20	60	70	
9I40P-3M(E/3C)	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	70	80	

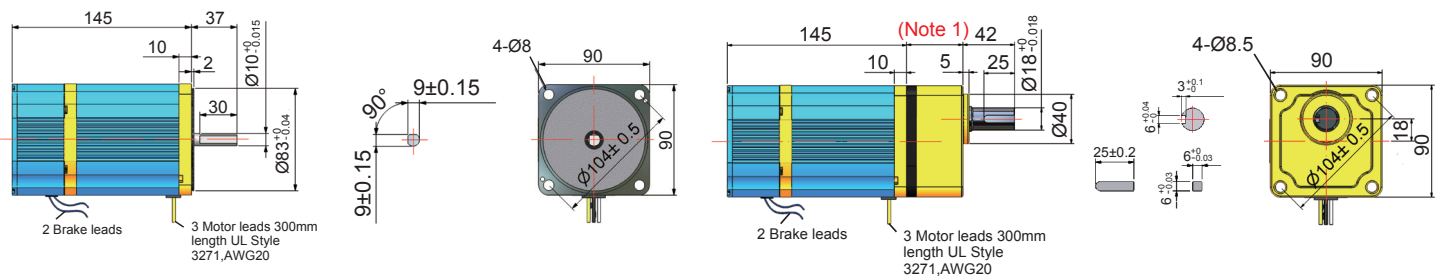
## ■ Dimensions

Round shaft type 9R40S-□M(E/3C) / 9I40S-3M(E/3C)

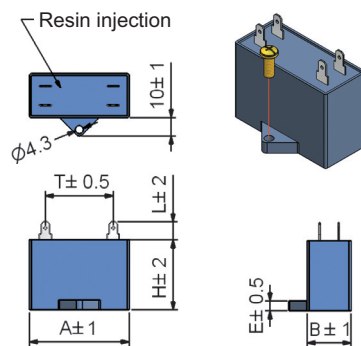
Motor Weight : 3600g

Pinion shaft type 9R40P-□M(E/3C) / 9I40P-3M(E/3C) + 9A□

Motor Weight : 3580g



## ■ Capacitor Dimensions (Included with single phase motors)



\*(Note 1)

9A□Gearhead Length/Weight		
Model	Length (mm)	Weight (g)
9A3~9A20	45.5	1170
9A25~9A100	58.5	1520
9A120~9A360	64.5	1610

※We also have gearhead 9A□N with shaft Ø12.For details please refer to the P.4

Capacity of capacitor (µF/VAC)	A	B	H	L	T	E
12/250	50	22	35	9	34	5
3.5/450	49	21	31.5	8	34	5
2.5/450	48	17	27	9	34	5

Common technical information  
Product number code  
Induction motor  
Reversible motor  
Speed control motor  
Electromagnetic Brake motor  
Torque motor