

B AC Motors

Torque Motor 40W(□90mm)

40W

Torque Motor
40W(□90mm)

Motor Specification

Model 9TDG*-40F2□: Gear Type Shaft 9TDD*-40F2: D-Cut Type Shaft 9TDK*-40F2: Key Type Shaft	Rating at Locked Rotor	Voltage V	Frequency Hz	Poles	Starting Torque		Output Hz	At max. Output Power				Capacitor μF / VAC		
					kgfcm	N.m		Speed r/min	Torque kgfcm N.m	Current A	Input W			
9TDGA-40F2□	5min.	1φ 110	60	4	6.00	0.600	40	900	4.50	0.450	2.40	200	25.0 / 250	
	Cont.	1φ 60			2.00	0.200			17	1.80	0.180	1.60		85
9TDGD-40F2□	5min.	1φ 220	60	4	6.00	0.600	40		4.50	0.450	1.20	200		6.5 / 450
	Cont.	1φ 140			2.00	0.200			17	1.80	0.180	0.80		
9TDGE-40F2□	5min.	1φ 220~240	50	4	6.10	0.610	40	750	4.50	0.450	1.20	190	6.5 / 450	
	Cont.	1φ 140			2.10	0.210			17	1.80	0.180	0.80		

- 1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.
 2) All models contain a built-in thermal protector. 3) Gear Type Shaft is for attaching Gearbox and D-Cut & Key Type Shafts are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio	2	3	3.6	5	6	7.5	9	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
9TDG□ -40F2P	9PBK□BH 9PFK□BH	5min.	kgfcm 7.5	11.2	13.4	18.7	22.4	28.0	33.6	42.2	50.6	60.8	61.2	76.5	91.8	110.2	122.4	153.0	183.6	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
		Cont.	N.m 0.73	1.10	1.32	1.83	2.20	2.75	3.29	4.13	4.96	5.95	6.00	7.50	9.00	10.80	12.00	14.99	17.99	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
9TDG□ -40F2H	9HBK□ BH 9HFK□BH	5min.	kgfcm -	11.2	13.4	-	22.4	-	33.6	42.2	50.6	60.8	61.2	76.5	91.8	110.2	-	153.0	183.6	229.5	275.4	300.0	300.0	300.0	300.0	300.0	300.0
		Cont.	N.m -	1.10	1.32	-	2.20	-	3.29	4.13	4.96	5.95	6.00	7.50	9.00	10.80	-	14.99	17.99	22.49	26.99	29.40	29.40	29.40	29.40	29.40	29.40

50Hz

Motor Model	Gearbox Model	Gear Ratio	2	3	3.6	5	6	7.5	9	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
9TDG□ -40F2P	9PBK□BH 9PFK□BH	5min.	kgfcm 7.5	11.2	13.4	18.7	22.4	28.0	33.6	42.2	50.6	60.8	61.2	76.5	91.8	110.2	122.4	153.0	183.6	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
		Cont.	N.m 0.73	1.10	1.32	1.83	2.20	2.75	3.29	4.13	4.96	5.95	6.00	7.50	9.00	10.80	12.00	14.99	17.99	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
9TDG□ -40F2H	9HBK□ BH 9HFK□BH	5min.	kgfcm -	11.2	13.4	-	22.4	-	33.6	42.2	50.6	60.8	61.2	76.5	91.8	110.2	-	153.0	183.6	229.5	275.4	300.0	300.0	300.0	300.0	300.0	300.0
		Cont.	N.m -	1.10	1.32	-	2.20	-	3.29	4.13	4.96	5.95	6.00	7.50	9.00	10.80	-	14.99	17.99	22.49	26.99	29.40	29.40	29.40	29.40	29.40	29.40

- 1) Enter the phase & voltage code in the box (□) within the motor model name. 2) Enter the gear ratio in the box (□) within the Gearbox model name.
 3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.
 4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.
 The actual speed is 2~20% less than the displayed value, depending on the size of the load.

Motor Images



