

Induction Motor 150W(□90mm)

150W

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Motor Specification

Model		Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load			Capacitor μF / VAC	
Lead Wire Type	Terminal Box Type						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
9IDG*-150F□(-T): Gear Type Shaft 9IDD*-150F(-T): D-Cut Type Shaft 9IDK*-150F(-T): Key Type Shaft													
9IDGG-150F□	9IDGG-150F□-T	150	3∅220	50 60	4	Cont.	22.00 19.00	2.200 1.900	1300 1550	1.00 0.90	11.30 9.40	1.130 0.940	-
9IDGK-150F□	9IDGK-150F□-T	150	3∅380	50	4	Cont.	18.00	1.800	1250	0.46	11.70	1.170	-
				60			15.00	1.500	1500	0.42	9.70	0.970	
				50	4	Cont.	19.00	1.900	1250	0.49	11.70	1.170	
60	16.00	1.600	1500	0.43			9.70	0.970					

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

Max. Permissible Torque at Output Shaft of Gearhead

60Hz

Motor Model	Gearhead Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	
			r/min	600	500	300	200	144	120	100	90	72	60	50	36	30	24	20	18	15	12	10
9IDG□-150FH	9HBK□BH	kgfcm	24.2	29.0	48.3	72.5	90.9	109.1	131.0	131.9	164.9	197.9	237.5	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
	9HFK□BH	N.m	2.37	2.84	4.73	7.10	8.91	10.69	12.83	12.93	16.16	19.39	23.27	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearhead Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
			r/min	240	180	120	90	72	60	45	36	30
9IDG□-150FWH	9WHD□	kgfcm	61.1	78.6	110.6	139.7	160.1	186.2	183.7	173.5	163.3	132.7
		N.m	5.99	7.70	10.84	13.69	15.68	18.25	18.00	17.00	16.00	13.00

50Hz

Motor Model	Gearhead Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180
			r/min	500	417	250	167	120	100	83	75	60	50	42	30	25	20	17	15	13	10
9IDG□-150FH	9HBK□BH	kgfcm	28.1	33.8	56.3	84.4	105.9	127.1	152.6	153.7	192.1	230.5	276.6	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	2.76	3.31	5.51	8.27	10.38	12.46	14.95	15.06	18.83	22.59	27.11	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearhead Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
			r/min	200	150	100	75	60	50	38	30	25
9IDG□-150FWH	9WHD□	kgfcm	71.2	91.5	128.8	162.7	186.5	204.1	183.7	173.5	163.3	132.7
		N.m	6.98	8.97	12.62	15.95	18.27	20.00	18.00	17.00	16.00	13.00

- 1) Enter the phase & voltage code in the box (□) within the motor model name.
- 2) Enter the gear ratio in the box (□) within the gearhead 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.

