STANDARD THREE-PHASE MOTORS

Motor Frame	Motor Shaft Dia.	App. wt. kg**	2 Pole* 48 rev/sec				4 Pole* 24 rev/sec				6 Pole* 16 rev/sec				8 Pole* 12 rev/sec			
			kW#	FLA	LRC	Eff%†	kW#	FLA	LRC	Eff%†	kW#	FLA	LRC	Eff%†	kW#	FLA	LRC	Eff%†
$D71_B$	14	11	0.37	0.9	6.1	67.7	0.37	1.0	4.1	69.3	-	-	-	-	-	-	-	-
D71	14	16	0.55	1.3	6.1	76.0	-	-	-	-	-	-	-	-	-	-	-	-
$D80_A$	19	18	0.75	1.5	7.0	83.4	0.55	1.4	4.8	72.8	0.37	1.1	2.8	66.5	-	-	-	-
$D80_B$	19	22	1.1	2.2	7.3	84.4	0.75	1.9	7.5	82.2	0.55	1.7	3.1	68.2	-	-	-	-
D90S	24	25	1.5	2.9	8.4	86.4	1.1	2.6	6.2	84.0	0.75	2.0	5.5	77.7	-	-	-	-
D90L	24	30	2.2	4.3	8.7	86.5	1.5	3.4	7.0	86.2	1.1	2.8	6.2	79.9	0.55	2.0	3.26	65.5
D100L	28	38	3.0	5.7	9.0	86.7	2.2	4.7	8.3	86.5	1.5	3.6	6.0	81.9	0.75	2.1	5.7	77.2
D100L	28	44	-	-	-	-	3.0	6.2	8.0	87.4	-	-	-	-	1.1	2.9	5.6	78.6
D112M	28	52	4.0	7.1	9.2	89.6	4.0	8.2	7.3	88.9	2.2	5.2	5.7	84.9	1.5	4.2	4.7	80.8
D132S	38	70	5.5	9.9	8.0	90.2	5.5	10.6	7.1	90.2	3.0	6.6	5.9	86.3	2.2	5.1	5.6	84.9
D132S	38	73	7.5	13.3	7.9	90.6	-	-	-	-	-	-	-	-	-	-	-	-
D132M	38	85	-	-	-	-	7.5	14.3	7.4	90.5	4.0	8.8	6.4	87.2	3.0	7.0	5.8	85.6
D132M	38	87	-	-	-	-	-	-	-	-	5.5	11.8	6.6	87.9	-	-	-	-
D160M	42	130	11.0	19.5	8.0	92.0	11	20.7	7.4	91.0	7.5	15.4	6.4	89.2	4.0	9.4	5.7	86.0
D160M	42	130	15.0	26.4	7.8	92.4	-	-	-	-	-	-	-	-	5.5	12.8	6.0	86.6
D160L	42	150	18.5	32.5	7.6	92.2	15	27.6	7.5	91.8		22.7	6.9	89.9	7.5	16.4	6.3	87.6
D180M	48	185	22	38.6	7.9	93.0	18.5	32.8	7.9	92.3	-	-	-	-	-	-	-	-
D180L	48	200	-	-	-	-	22	38	7.9	92.8	15	29.8	6.5	90.8	11	24.5	5.8	88.7
D200L	55	260	30	53	9.0	94.1	30	53	8.8	93.6	18.5	35	8.4	92.3	15	32.8	6.6	90.8
D200L	55	265	37	65	6.5	93.3	-	-	-	-	22	42.5	8.8	92.5	-	-	-	-
D225S	55/60	310	-	-	-	-	37	64	7.6	94.1	-	-	-	-	18.5	38.5	5.6	91.4
D225M	55/60	330	45	79	9.0	93.7	45	79	9.0	94.3	30	54	7.4	92.6	22	44	5.2	92.0
D250M	60/65	430	55	93	8.9	94.6	55	95	9.1	94.4	37	65	8.0	93.2	30	59	6.0	92.4
D280S	65/70	660	75	126	9.2	94.9	75	126	7.4	95.2	45	78	7.8	93.5	37	73	6.8	93.0
D280M	65/80	700	90	147	7.1	95.4	90	151	6.6	95.9	55	96	9.0	94.2	45	86	6.7	93.4
D315S	80	1000	110	181	6.2	95.5	110	185	7.2	95.8	75	131	7.0	94.4	55	101	7.1	93.7
D315M	80/85	1100	132	222	6.0	95.5	132	221	7.0	95.5	90	155	7.1	95.0	75	139	7.3	94.5
D315L	80/85	1180	160	263	5.4	95.5	160	261	7.2	95.7	110	189	7.0	95.4	90	168	6.5	94.8
D315L	80/85	1320	-	-	-	-	-	-	-	-	132	229	7.8	95.6	110	205	6.5	95.3

* The figures in this table are to be used as a guide only.

\# For direct drive axial flow fan applications in normal ambient temperatures, airstream cooling enables the power available from the motors to be increased without detriment to the motor. Fantech will utilise this facility whenever possible.

** Motor weight will vary depending on the manufacturer. Our data is based upon a commonly used brand of motor.

† Efficiency is at 100% of full load and will vary depending on the manufacturer. Our data is based upon a commonly used brand of motor.

Starting Amps

Direct-on-line (D.O.L.). = Full Load Amps □ Locked Rotor Current Multiplier
= FLA □ LRC

Star/delta starting = $\frac{\text{FLA} \square \text{LRC}}{3}$

Where:

DOL = Direct-on-line
FLA = Full Load Amps
LRC = Locked Rotor Current Multiplier
The data on this page does not apply to external rotor motors.

© FANTECH 2024