

1-800-GRAINGER (472-4643)



3-Phase Painted Washdown Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C

NEMA premium efficient motors built as washdown motors. Copper windings are cured in protective polyester compound. 303 stainless steel shaft. V-ring rotating seal. Double-sealed, oversize bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. Bearing cavities are packed to help keep moisture out. White epoxy finish provides superior resistance to caustic cleaning solutions. For high humidity/wet environments and areas where motor is occasionally exposed to high-pressure washdowns. USDA Approved paint finish.



2DAK7
Rigid Base-Mount



1TR26
Face/Base-Mount



48ZJ94
Face-Mount

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
Totally Enclosed Fan-Cooled, Face/Base-Mount										
2	3,505	145TC	230/460V AC	4.9/2.4	1.15	86.5%	7/8 in	2 1/2 in	11 1/4 in	5XAT3 *
	1,750	145TC	230/460V AC	5.7/2.8	1.15	86.5%	7/8 in	2 1/2 in	12 5/8 in	5XAT4 *
3	3,535	182TC	230/460V AC	7.4/3.7	1.15	88.5%	1 1/8 in	2 5/8 in	16 3/4 in	5XAT7 *
	1,765	182TC	230/460V AC	7.6/3.8	1.15	89.5%	1 1/8 in	2 5/8 in	14 1/2 in	5XAU0 *
5	1,755	184TC	230/460V AC	12.5/6.2	1.15	89.5%	1 1/8 in	2 5/8 in	14 1/2 in	5XAU1 *
7 1/2	1,765	213TC	230/460V AC	18.2/9.1	1.15	91.7%	1 3/8 in	3 1/2 in	16 1/4 in	5XAU *
10	1,760	215TC	230/460V AC	24.0/12.0	1.15	91.7%	1 3/8 in	3 1/2 in	17 1/4 in	5XAU1 *
Totally Enclosed Fan-Cooled, Face-Mount										
3	1,765	182TC	230/460V AC	7.6/3.8	1.15	89.5%	1 1/8 in	2 5/8 in	14 1/2 in	5XAU5 *
	3,525	184TC	230/460V AC	12.0/6.0	1.15	89.5%	1 1/8 in	2 5/8 in	14 1/2 in	5XAU6 *
5	1,755	184TC	230/460V AC	12.5/6.2	1.15	89.5%	1 1/8 in	2 5/8 in	14 1/2 in	5XAU7 *
	3,520	213TC	230/460V AC	17.4/8.7	1.15	91%	1 3/8 in	3 1/2 in	18 1/4 in	5XAU9 *
7 1/2	1,765	213TC	230/460V AC	18.2/9.1	1.15	91.7%	1 3/8 in	3 1/2 in	16 1/4 in	2DAM7 *
10	3,515	215TC	230/460V AC	23.1/11.6	1.15	91%	1 3/8 in	3 1/2 in	18 1/4 in	2DAM8 *
	1,760	215TC	230/460V AC	23.9/11.9	1.15	91.7%	1 3/8 in	3 1/2 in	17 1/4 in	2DAM9 *
15	3,540	215TC	230/460V AC	35.0/17.4	1.15	93%	1 3/8 in	3 1/2 in	19 1/4 in	2DAN1 *
Totally Enclosed Fan-Cooled, Rigid Base-Mount										
1/2	1,750	56	230/460V AC	1.60/0.80	1.15	78.5%	5/8 in	1 7/8 in	11 1/2 in	2DAK7 *
3/4	1,745	56	230/460V AC	2.3/1.20	1.15	81.5%	5/8 in	1 7/8 in	11 1/2 in	2DAK8 *
1	1,750	143T	230/460V AC	3.0/1.50	1.15	85.5%	7/8 in	2 3/8 in	11 1/2 in	5XAT8 *
1 1/2	1,755	145T	230/460V AC	4.3/2.1	1.15	86.5%	7/8 in	2 3/8 in	12 in	5XAT9 *
2	1,750	145T	230/460V AC	5.7/2.8	1.15	86.5%	7/8 in	2 3/8 in	12 in	5XAT5 *
3	1,765	182T	230/460V AC	7.6/3.8	1.15	89.5%	1 1/8 in	3 in	12 3/4 in	5XAU2 *
	3,525	184T	230/460V AC	12.1/6.1	1.15	89.5%	1 1/8 in	3 in	12 3/4 in	5XAU3 *
5	1,755	184T	230/460V AC	12.5/6.2	1.15	89.5%	1 1/8 in	3 in	12 3/4 in	5XAU4 *
	3,520	213T	230/460V AC	17.4/8.7	1.15	91%	1 3/8 in	3 3/8 in	16 5/8 in	5XAU8 *
7 1/2	1,765	213T	230/460V AC	18.2/9.1	1.15	91.7%	1 3/8 in	3 3/8 in	14 5/8 in	5XAU2 *
10	1,760	215T	230/460V AC	24.0/12.0	1.15	91.7%	1 3/8 in	3 3/8 in	15 5/8 in	5XAU3 *
Totally Enclosed Nonventilated, Face/Base-Mount										
1/2	3,550	56C	230/460V AC	1.40/0.70	1.15	82.5%	5/8 in	2 in	9 1/4 in	1TR27 *
	1,750	56C	230/460V AC	1.60/0.80	1.15	80%	5/8 in	2 in	9 1/4 in	1TR23 *
3/4	3,500	56C	230/460V AC	2.00/1.00	1.15	80%	5/8 in	2 in	9 1/4 in	1TR28 *
	1,745	56C	230/460V AC	2.3/1.20	1.15	81.5%	5/8 in	2 in	9 1/4 in	1TR24 *
1	3,520	56C	230/460V AC	2.5/1.30	1.15	85.5%	5/8 in	2 in	9 1/4 in	1TR29 *
	1,750	143TC	230/460V AC	3.0/1.50	1.15	85.5%	7/8 in	2 1/2 in	10 3/4 in	1TR22 *
1 1/2	1,750	56C	230/460V AC	3.0/1.50	1.15	85.5%	5/8 in	2 in	10 1/4 in	1TR26 *
	3,505	56HC	230/460V AC	3.6/1.80	1.15	86.5%	5/8 in	2 in	10 3/4 in	1TTA1 *
1 1/2	1,750	145TC	230/460V AC	4.3/2.1	1.15	86.5%	7/8 in	2 1/2 in	10 1/4 in	1TR21 *
	1,750	56HC	230/460V AC	4.3/2.1	1	86.5%	5/8 in	2 in	10 1/4 in	1TR25 *
Totally Enclosed Nonventilated, Face-Mount										
1/2	1,765	56C	230/460V AC	1.50/0.70	1.15	74%	5/8 in	2 in	8 1/4 in	1TTB1 *
1/2	1,750	56C	230/460V AC	1.60/0.80	1.15	80%	5/8 in	2 in	9 3/4 in	1TTB6 *
3/4	3,500	56C	230/460V AC	2.00/1.00	1.15	80%	5/8 in	2 in	9 3/4 in	1TTA3 *
	1,745	56C	230/460V AC	2.3/1.20	1.15	82.5%	5/8 in	2 in	9 3/4 in	1TTB5 *
1	1,750	56C	230/460V AC	3.1/1.50	1.15	85.5%	5/8 in	1 7/8 in	10 3/4 in	48ZJ94 *
	1,750	143TC	230/460V AC	3.0/1.50	1.15	85.5%	7/8 in	2 1/2 in	10 3/4 in	1TTB7 *
1 1/2	1,750	145TC	230/460V AC	4.3/2.1	1	86.5%	7/8 in	2 1/2 in	10 1/4 in	1TTB8 *
Totally Enclosed Nonventilated, Rigid Base-Mount										
1/2	1,750	56	230/460V AC	1.60/0.80	1.15	78.5%	5/8 in	1 7/8 in	8 7/8 in	1TTC3 *
3/4	1,745	56	230/460V AC	2.3/1.20	1.15	81.5%	5/8 in	1 7/8 in	8 7/8 in	1TTC2 *
1	1,750	56	230/460V AC	3.0/1.50	1.15	85.5%	5/8 in	1 7/8 in	9 7/8 in	1TTC1 *

* 50/60 Hz.



90 and 180VDC Painted Washdown Motors

- Enclosure: totally enclosed fan-cooled
- Service factor: 1.0
- Insulation: Class H
- Bearings: ball
- Max ambient temp.: 40°C
- Duty: continuous

Designed for use with speed controls or NEMA Type K DC power supplies on constant or diminishing torque applications. Motors feature externally replaceable brushes and removable bases. Suitable for use in drives for conveyors, food packaging and processing machinery where high humidity and wet environments exist, or where washdown procedures are used.

HP	Nameplate RPM	Frame	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
90V DC Permanent Magnet DC, Face/Base-Mount							
1/4	1,750	56C	2.5	5/8 in	1 7/8 in	8 7/8 in	1F654
1/2	1,750	56C	3.5	5/8 in	1 7/8 in	9 3/8 in	1F652
1/2	1,750	56C	5.0	5/8 in	1 7/8 in	9 7/8 in	1F650
3/4	1,750	56C	7.6	5/8 in	1 7/8 in	11 1/4 in	1F646
1	1,750	56C	10.0	5/8 in	1 7/8 in	12 1/4 in	1F642
180V DC Permanent Magnet DC, Face/Base-Mount							
1/2	1,750	56C	3.5	5/8 in	1 7/8 in	9 3/8 in	1F648
3/4	1,750	56C	3.8	5/8 in	1 7/8 in	11 1/4 in	1F644
1	1,750	56C	5.0	5/8 in	1 7/8 in	12 1/4 in	1F640

• Replacement brushes available on Grainger.com



1F654

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.