

DC Motors

NEMA Frame - Low Voltage 12, 24, 36 & 48 VOLTS

General Specifications:

- Low voltage PMDC design suitable for battery, solar powered or generator supplied low voltage applications

Features:

- Oversized brushes for long life
- External access to brushes allows for easy replacement further prolonging motor life
- Heavy-duty, stamped steel, bolt on base (Removable)
- NEMA C face mounting flange at no additional cost
- High strength rolled steel frame
- Rugged die cast endshields with steel bearing inserts
- Permanently lubricated sealed ball bearings
- Convert to NEMA 48 frame base dimensions or NEMA 42/48 frame C face dimensions with modification kits shown below
- High starting torques for heavy load applications
- Linear speed torque characteristics throughout the speed range
- Capable of dynamic braking for faster stops
- Reversible rotation
- Simple two lead connection



12, 24, 36 & 48 Volts - TENV / TEFC - C Face With Removable Base

HP/ kW	Full Load RPM	IEC Frame	Catalog Number	✓ In Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	"C" Dim. (Inches)	▼ Notes
1/4	1750	S56C	108045.00	✓	652	4D17NK5	21	12	21.0	10.27	S, US, 12, 56
1/8	1750	S56C	108046.00	✓	717	4D17NK6	24	12	27.0	10.77	S, US, 12, 56
	1750	S56C	108050.00	✓	687	4D17NK9	22	24	13.5	10.77	S, US, 12, 56
1/2	1750	S56C	108047.00	✓	746	4D17NK7	29	12	39.0	11.77	S, US, 12, 56
	1750	S56C	108051.00	✓	711	4D17NK10	29	24	20.0	11.77	S, US, 12, 56
	1750	S56C	098361.00	✓	677	42D18RK6	29	36	13.5	10.81	S, US
	1750	S56C	098362.00	✓	655	42D18RK7	29	48	11.0	10.81	S, US
3/4	1750	S56C	108048.00	✓	823	4D17RK7	30	12	58.0	13.82	S, US, 57
	1750	S56C	108052.00	✓	745	4D17RK8	30	24	29.0	12.82	S, US
1	1750	S56C	108322.00	✓	981	4D17RK26	39	12	80.0	13.81	S, US, 57
	1750	S56C	108053.00	✓	903	4D17RK9	37	24	39.0	13.82	S, US, 57
	1750	S56C	109101.00	✓	865	4D18RK1	37	36	25.5	13.81	S, US
	1750	S56C	109102.00	✓	834	4D18RK2	37	48	18.5	13.81	S, US
1 1/2	1750	S56CZ	109103.00	✓	1317	4D18RK3	39	24	80.0	15.25	S, US, 57, 58
	1750	S56CZ	109104.00	✓	1301	4D18RK4	37	36	36.0	17.38	S, US, 57, 58
	1750	S56CZ	109105.00	✓	1256	4D18RK5	37	48	27.0	17.38	S, US, 57, 58
2	1750	S56CZ	109106.00	✓	1649	4D18RK6	42	24	70.0	16.74	S, US, 57, 58
	1750	S56CZ	109107.00	✓	1525	4D18RK7	42	36	49.0	16.74	S, US, 57, 58
	1750	S56CZ	109108.00	✓	1486	4D18RK8	42	48	38.0	16.74	S, US, 57, 58

Footnotes

S	Steel frame	26	Shaft is 1/2" Dia. X 1 1/2" long with flat
A	Aluminum frame	27	Shaft is 5/8" Dia. X 1.67" long with 3/16" keyway
C	Cast Iron frame	28	1/4" long extended through-bolts
US	Made in the USA	29	IEC Frame - See IEC dimension chart in back of catalog for dimension information
MX	Made in Mexico	30	CW rotation only, from lead end of motor
CA	Made in Canada	31	For motors having a "P" suffix letter in the data code
CN	Made in China	32	Motor has terminal board connection
2	These combination 56 H base motors have mounting holes for 56 and 143-ST, and 1/2 diameter shaft with flat 1.6" long	33	Automatic overload - cannot use with VFD
3	Combination 56 H base has mounting holes for NEMA 56 and 143-ST and a standard NEMA 145T frame shaft of 7/8" Dia.	34	1" long extended through-bolts
4	These motors have a NEMA 216T base mounting pattern and shaft height of 5.28", with usable length of 3 3/8 and diameter of 1 1/8 with standard key	35	Terminal studs at 12.00
5	Combination 56 H base has mounting holes for NEMA 56, and has a standard NEMA 145T frame shaft of 7/8" Dia.	36	Special BA dimension 2.31 for belt guard clearance
6	Combination 56 H base has mounting holes for NEMA 56 and NEMA 143-ST and a standard NEMA 56 shaft of 5/8"	37	Uses drip cover kit 175305.00
7	48VZ motors have std. 48-frame base with 1/2" dia. X 1 7/8 long shaft ext. with flat. Also includes sleeve to convert shaft to 5/8" dia. With 3/16" square key"	38	Uses drip cover kit 175004.00
8	NEMA 145TC shaft, 7/8" X 2 1/4" and NEMA 56 removable base	39	Uses drip cover kit 175832.00
9	96OZ motors have mounting bases with NEMA 56 mounting holes, NEMA 56/143-ST C-face and a NEMA 143-ST shaft extension (7/8" dia X 2 1/4" long)	40	Uses drip cover kit 175833.00
10	Motor has mounting base with 182T mounting holes, shaft height is 4.6". Shaft is std. NEMA 56-5/8" dia. X 1 7/8 long	41	Uses drip cover kit 175846.00
11	TEBC totally enclosed blower cooled	42	Uses drip cover kit 175848.00
12	TENV totally enclosed non-vented	43	Uses drip cover kit 175862.00
13	TEFC totally enclosed fan cooled	44	Uses drip cover kit 175863.00
14	PI mounting only	45	Uses drip cover kit 175814.00
15	Built-in conduit box located at 12.00	46	60 Hz operation at rated HP
16	1/2" diameter shaft - 2 1/4" long	47	Rated at 60 Hz at full rated HP
17	5/8" diameter shaft - 2 5/8" long	48	190V/380V, 60Hz at next lowest HP @ 1.15 S.F.
18	Shaft extension has keyway and flat 180° apart for ease of mounting	49	Class F insulated
19	Shaft is 5/8" Dia by 2.0" long	50	Suitable for single speed operation only
20	Shaft is 5/8" Dia by 2 5/8" long	51	Mechanical centrifugal starting switch with overspeed protection, others have electronic start switch
21	Shaft is 3/4" Dia by 3 1/2" long	52	Extra high starting torque
22	Standard 5/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades	53	Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run
23	Standard 7/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades	54	Split phase start, capacitor run is suitable for belt drive within the airflow of the fan
24	Motor's shaft is 1 inch longer than standard	55	Split phase start, capacitor run
25	Shaft extension has keyway and flat 180° apart for ease of mounting. Useable shaft is 1 1/2" long by 1/2 Dia., 1/8"	56	Designed for inverter duty operation
		57	Rated for farm duty service
		58	Provision for belly band mount, no base
		59	Resilient base with provision for belly band mount
		60	Rigid base
		61	Nema 145TC face mounting with removable NEMA 182T rigid base
		62	Provision for belly band and pedestal fan mounting, no rigid base
		63	Resilient base