

Dings *Direct-Acting Brakes*

MARINE / MARITIME & NAVY

BUILT FOR HARSH ENVIRONMENTS

Spring-Set Disc Brakes for NEMA motor frames 56C through 405TC
Torque Ratings: 1.5 to 450 lb-ft

Features

- IP56 / NEMA 4X Enclosure
- Marine finish and plating to prevent corrosion
- Splined hub & friction disc for added durability
- Drains and heaters available to eliminate moisture
- Stainless steel or aluminum bronze component options provide additional corrosion resistance
- Cast iron or ductile iron enclosures for strength & durability
- Navy brakes designed in accordance with MIL-B-16392B
- Marine / Maritime brakes to meet the requirements of IEEE45



MARINE & MARITIME

Suitable for shipboard and other seawater environment applications

MARINE/MARITIME DUTY WITH NON-MILITARY PAINT

Specifications

- Enclosure Rating: IP56/NEMA 4X
- Compliant with IEEE 45*.
- Housing Material: Cast Iron (ductile iron optional)
- Pressure Plate: Plated Steel
- Stationary Disc: Steel
- Plated hardware
- Interior parts are zinc plated or painted.
- Hub seal included
- Manual Release is maintained with automatic reset
- Housing exterior and interior are painted with a primer and high solid epoxy paint (non-military).



*If full IEEE45 compliance is required, IEEE45 nameplate must be requested.

60 Series – 56C - 143/145TC

Torque lb-ft.	Model No.	Coil Insulation	List Price
1.5	N61001-530	B	\$1,460
3	N61003-530	B	\$1,495
6	N61006-530	B	\$1,590
10	N62010-530	B	\$1,700
15	N63015-530	B	\$1,840
20	N63020-530	H	\$1,940
25	N64025-530	H	\$2,085



70 Series – 182TC - 256TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
10	N71010-57	B	\$2,405
15	N71015-57	B	\$2,455
25	N72025-57	B	\$2,530
35	N72035-57	B	\$2,680
50	N73050-57	B	\$2,980
75	N74075-57	B	\$3,480



80 Series – 284TC/286TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
25	N81025-29	H	\$2,965
35	N81035-29	H	\$3,175
50	N82050-29	H	\$3,325
75	N83075-29	H	\$3,825
105	N83105-29	H	\$4,525
125	N84125-29	H	\$4,925
175	N84175-29	H	\$6,825



90 Series – 324TC-405TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
125	N92125-51	H	\$7,315
180	N92180-51	H	\$7,665
270	N93270-51	H	\$8,715
360	N94360-51	H	\$10,115
450	N95450-51	H	\$10,765



MARINE/MARITIME DUTY WITH MIL-SPEC PAINT

Per TT-P-645 & MIL-DTL-15090

Specifications

- Enclosure Rating: IP56/NEMA 4X
- Compliant with IEEE 45*.
- Housing Material: Cast Iron (ductile iron optional)
- Pressure Plate: Plated Steel
- Stationary Disc: Steel

- Plated hardware
- Interior parts are zinc plated or painted.
- Hub seal included
- Manual Release is maintained with automatic reset
- Primer and top coat per TT-P-645 & MIL-DTL-15090

*If full IEEE45 compliance is required, IEEE45 nameplate must be requested.

60 Series – 56C - 143/145TC

Torque lb-ft.	Model No.	Coil Insulation	List Price
1.5	M61001-530	B	\$2,070
3	M61003-530	B	\$2,105
6	M61006-530	B	\$2,200
10	M42010-530	B	\$2,310
15	M63015-530	B	\$2,450
20	M63020-530	H	\$2,550
25	M64025-530	H	\$2,695



70 Series – 182TC - 256TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
10	M71010-57	B	\$3,195
15	M71015-57	B	\$3,245
25	M72025-57	B	\$3,320
35	M72035-57	B	\$3,470
50	M73050-57	B	\$3,770
75	M74075-57	B	\$4,270



80 Series – 284TC/286TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
25	M81025-29	H	\$3,885
35	M81035-29	H	\$3,995
50	M82050-29	H	\$4,245
75	M83075-29	H	\$4,745
105	M83105-29	H	\$5,445
125	M84125-29	H	\$5,845
175	M84175-29	H	\$7,745



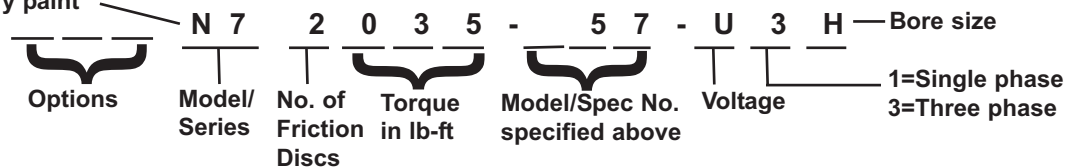
90 Series – 324TC-405TC HEAVY DUTY 4 Post Design

Torque lb-ft.	Model No.	Coil Insulation	List Price
125	M92125-51	H	\$8,380
180	M92180-51	H	\$8,730
270	M93270-51	H	\$9,780
360	M94360-51	H	\$11,180
450	M95450-51	H	\$11,830



N = Non-military paint
M = Military paint

Model Number Example



OPTIONS Description	Prefix	List Price Adder			
		Series			
		60	70	80	90
Class H insulation	Q	\$125	\$155	Std	Std
Space heater	R	\$210	\$225	\$225	\$275
Breather drain	K	\$235	\$250	\$250	\$250
Tropical protection	P	\$140	\$155	\$170	\$185
Stainless steel stationary disc (add per disc)	S	\$210	\$305	\$405	\$645
Stainless hardware	X	\$170	\$170	\$170	\$250
Heavy duty friction discs 1st disc	H	\$160	\$170	\$310	\$500
and hardened hub Each add'l disc					
Ductile iron enclosure	X	\$750	\$900	\$1,050	\$1,200

Standard Voltages:	
Suffix	Voltage
Y	110/220V, 50Hz
U	230/460V, 60 Hz or 190/380V, 50 Hz
R	115/230V, 60 Hz
T	220/440V, 60 Hz
P	575V, 60 Hz

Standard Hub Bore Sizes:		
Suffix	Size	Series
D	5/8"	60
F	7/8"	60,70,80
H	1 1/8"	70,80
J	1 1/4"	70,80
K	1 3/8"	70,80
M	1 5/8"	70,80
N	1 7/8"	80
O	2 1/8"	90
P	2 3/8"	90
Q	2 7/8"	90

NAVY- Designed in accordance with Military Specifications

Specifications

- Conforms to MIL-B-16392 specifications
- Aluminum bronze stationary disc
- Primer & top coat per TT-P-645 & MIL-DTL-15090
- NEMA 4/ IP56 Enclosure
- Ductile iron construction
- Non-maintained (Deadman) release
- Torque adjustable
- No disassembly required for mounting



70 Series Frame Sizes 182TC through 256TC



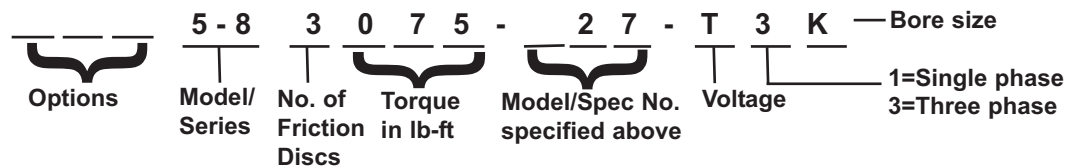
Torque lb.-ft.	Model #	Wt. Lbs.	Thermal Capacity HPS/MIN	Inertia WK ² Lb.Ft. ²	List Price
3	5-71003-42	54	11	0.028	\$8,500
10	5-71010-42	54	11	0.028	\$8,760
15	5-71015-42	54	11	0.028	\$8,835
25	5-72025-42	58	12	0.051	\$8,950
35	5-72035-42	58	12	0.051	\$9,085
50	5-73050-42	62	13	0.075	\$9,350
75	5-74075-42	66	14	0.099	\$9,775

80 Series Frame Sizes 284TC and 286TC



Torque lb.-ft.	Model #	Wt. Lbs.	Thermal Capacity HPS/MIN	Inertia WK ² Lb.Ft. ²	List Price
25	5-81025-27	80	15	0.084	\$9,225
35	5-81035-27	80	15	0.084	\$9,360
50	5-82050-27	85	17	0.158	\$9,950
75	5-83075-27	90	19	0.233	\$10,450
90	5-83090-27	90	19	0.233	\$11,150
135	5-84135-27	97	21	0.309	\$17,600
180	5-85180-27	104	21	0.384	\$19,250

Model Number Example



OPTIONS Description	Prefix	List Price Adder Series	
		70	80
Class H insulation	Q	\$155	\$175
Space heater	R	\$225	\$225
Breather drain	K	\$250	\$250

Standard Voltages:	
Suffix	Voltage
Y	110/220V, 50Hz
U	230/460V, 60 Hz or 190/380V, 50 Hz
R	115/230V, 60 Hz
T	220/440V, 60 Hz
P	575V, 60 Hz

Standard Hub Bore Sizes:		
Suffix	Size	Series
F	7/8"	70,80
H	1 1/8"	70,80
J	1 1/4"	70,80
K	1 3/8"	70,80
M	1 5/8"	70,80
N	1 7/8"	80



DIRECT-ACTING

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Over 100 Years of Excellence