

Double C-Face Magnetic Disc Brakes

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"
- Mounting: horizontal

Direct-acting spring-set brakes use 1 moving part to engage and hold load under power-off conditions. Brake is designed to convert C-face motors and gearmotors to brake motors or brake gearmotors. Models with 56C/140TC NEMA frame have 7/8" O.D. x 5/8" I.D. shaft bushing.

Standard Dripproof—Used in indoor applications such as conveyors and door openers.

Waterproof/Dust-tight—Used in indoor and outdoor applications where dirt and moisture are present.

Washdown—Used in food and dairy applications. Comply with 3A dairy standards pertaining to nonproduct-contact surfaces and with NEMA DEF.MG1-1.26.6 for waterproof machines. USDA-approved white epoxy paint. BISSC Certified.

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Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.



Static Torque	NEMA Frame	Max. HP @ 1725 rpm		Max. HP @ 3450 rpm		STANDARD DRIPPROOF Item No.	WATERPROOF/DUST-TIGHT Item No.	WASHDOWN Item No.
		115/208-230V AC Or 110/208-220V AC, 60/50 Hz ft.-lb.		115/208-230V AC Or 95/174-190V AC, 60/50 Hz ft.-lb.				
3 ft.-lb.	56C	1 hp	2 hp	1 hp	2 hp	6K233	2LYU1	1L388
6 ft.-lb.	56C/140TC	2 hp	3 hp	2 hp	3 hp	3M366	2LYU2	1L389
10 ft.-lb.	56C/140TC	3 hp	5 hp	3 hp	5 hp	2LYT6	2LYU3	2LYU7
208-230/460V AC Or 174-190/380V AC, 60/50 Hz ft.-lb.								
3 ft.-lb.	56C	1 hp	2 hp	1 hp	2 hp	2LYT7	2LYU4	2LYU8
6 ft.-lb.	56C/140TC	2 hp	3 hp	2 hp	3 hp	2LYT8	2LYU5	2LYU9
10 ft.-lb.	56C/140TC	3 hp	5 hp	3 hp	5 hp	2LYT9	2LYU6	2LYV1

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End-Mount Standard Dripproof Magnetic Disc Brakes

- Service factor: 1.4
- Max. ambient: 40°C
- Coil lead length: 18"
- Mounting: horizontal
- Interchangeable with Stearns Series 56,000

Direct-acting spring-set brakes have single-point air gap adjustment, factory set for plug-and-run assembly for easy maintenance. Have no linkage to wear, which helps extend service life. Knockout hole in cover accommodates through-shaft brake motors with fans. Suitable for use in conveyors,

packaging machines, hoist end-trucks, security/toll booth gates, and sorting machines.

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.



Static Torque	NEMA Frame	HP @ 1725 rpm		HP @ 3450 rpm		Item No.
		115/208-230V AC Or 95/174-190V AC, 60/50 Hz ft.-lb.		208-230/460V AC Or 174-190/380V AC, 60/50 Hz ft.-lb.		
3 ft.-lb.	56C	1/2 hp	1 hp	1/2 hp	1 hp	5URA0
6 ft.-lb.	56C	1 hp	2 hp	1 hp	2 hp	5URA1
10 ft.-lb.	143/145TC	2 hp	3 hp	2 hp	3 hp	5URA2
15 ft.-lb.	143/145TC	3 hp	5 hp	3 hp	5 hp	5URA3
3 ft.-lb.	56C	1/2 hp	1 hp	1/2 hp	1 hp	5URA4
6 ft.-lb.	56C	1 hp	2 hp	1 hp	2 hp	5URA5
10 ft.-lb.	143/145TC	2 hp	3 hp	2 hp	3 hp	5URA6
15 ft.-lb.	143/145TC	3 hp	5 hp	3 hp	5 hp	5URA7

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Magnetic Disc Brakes, 1- and 2-Disc Design

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"

1-Disc—Includes replacement fan and endbell for converting TEFC gearmotors to brake gearmotors. To see which gearmotors use this brake, go to Grainger.com.

2-Disc—Factory set to provide 3/4 ft.-lb. stopping and holding torque. To reduce torque to 3/8 ft.-lbs., remove 1 disc. Use with

shaded-pole, split-phase and permanent split-capacitor gearmotors.

- Max. 1/4 HP for 3/4 ft.-lb., 2-disc use
- Max. 1/15 HP for 3/8 ft.-lb., 1-disc use

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.



Description	Static Torque	Item No.
1-Disc		
115/230V AC, 60 Hz	1.5	4Z447
230/460V AC, 60 Hz	1.5	2LYV2
2-Disc		
115V AC, 60 Hz	0.375 ft.-lb. 0.75 ft.-lb	5X400

Warner
Electric

C-Face Clutches and Brakes

The innovative Autogaps technology allows clutch and brake to automatically adjust for wear, requiring no lubrication or maintenance.

Packaged NEMA C-face clutch/brake modules offer high-performance starting and stopping of loads, with the motor running, in an easy-to-install package. Mount to NEMA C-face motor or between motor and reducer. Power on engagement of the brake and clutch. Use the HP vs. Shaft Speed Selection Table to select the proper unit for your application.

Note: Brake is not intended for accurate positioning applications or vertical holding applications, such as vertical conveyors or hoists.

Clutch/Brake Controls—Mount on standard module conduit boxes. Green LED indicates power to clutch; red LED indicates power to brake.

HP vs. SHAFT SPEED SELECTION TABLE
CAUTION: RPM refers to shaft speed at clutch or brake.
Based on 2.75 service factor.

RPM x 100	2	4	6	8	10	12	15	18	20	24	30	36
1/4												
1/2												
3/4												
1												
1 1/2												
2												
3												
5												
7 1/2												
10												

16 Ft.-Lbs. Torque

30 Ft.-Lbs. Torque

95 Ft.-Lbs. Torque (210 Series)

95 Ft.-Lbs. Torque (215 Series)

2DBN1



2DBK6



Series	Static Torque	Shaft Dia.	Enclosure	Max. rpm	NEMA/IEC Frame	Length	Width	Mfr. Model	Item No.
C-Face Brakes									
24 Volts (DC)									
EM-50	16	3/4 in	Vented	3,600 RPM	56C	5.1875 in	6 3/4 in	EM50-20-24	2DBN2
EM-180	30	7/8 in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 3/4 in	EM180-20-24	2DBN6
90 Volts (DC)									
EM-50	16	3/4 in	Vented	3,600 RPM	56C	5.1875 in	6 3/4 in	EM50-20-90	2DBN1
EM-100	30	3/4 in	Vented	3,600 RPM	56C	5.1875 in	6 3/4 in	EM100-20-90	2DBN3
EM-180	30	7/8 in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 3/4 in	EM180-20-90	2DBN5
EM-210	95	1 1/8 in	Vented	3,600 RPM	213C/182TC/215C/184TC	7.5625 in	9 3/4 in	EM210-20	2DBN7
C-Face Clutches									
90 Volts (DC)									
UM-50	16	3/4 in	Vented	3,600 RPM	56C	6.75 in	6 3/4 in	UM50-1040	2DBL5
UM-100	30	3/4 in	Vented	3,600 RPM	56C	6.75 in	6 3/4 in	UM100-1040	2DBL6
Clutch/Brakes									
90 Volts (DC)									
UM-50	16	3/4 in	Vented	3,600 RPM	56C	6.75 in	6 3/4 in	UM50-1020-90	2DBK6
—	22	3/4 in	Enclosed	4,500 RPM	—	11.781 in	6 in	EP-400-90V	5AFA0
UM-100	30	3/4 in	Vented	3,600 RPM	56C	6.75 in	6 3/4 in	UM100-1020-90	2DBK8
UM-180	30	7/8 in	Vented	3,600 RPM	182C/143TC/184C/145TC	6.75 in	6 3/4 in	UM180-1020-90	2DBL1
Description									
Clutch/Brake Controls, For Use with All Series 90V Clutch/Brakes									
120V AC Input, 90V DC Output						3 1/2 in	2 3/8 in	CBC-150-1	2DBN9
220-240VAC Input, 90V DC Output						3 1/2 in	2 3/8 in	CBC-150-2	2DBP1
Motor Mounting Kits									
For Use With Series UM-50/UM-100						11 in	9 1/4 in	5370-101-078	2DBP2
For Use With Series UM-180						11 in	9 1/4 in	5370-101-079	2DBP3
Accessories									
Cover Kit, To Convert Vented Housing to Enclosed Housing.						2 29/32 in	2 13/16 in	5370-101-076	2DBP5
For Use With Series UM-50/UM-100/UM-180						3 1/4 in	2 3/8 in	5370-101-042	2DBP6
Conduit Box Kit, For Use with Series 50, 100, and 180 Models						3 1/4 in	2 3/8 in	5370-101-042	2DBP6

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