

# Series 48,100 (1-048-1XX)

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## Mounting Face: 48C

## 3.0" AK, 3.75" AJ

**Static Torque:** 1.5 through 6 lb-ft

**Enclosure:** IP23 (formerly referred to by Stearns as NEMA 2), Stamped Steel Housing

**Release Type:** Side Lever

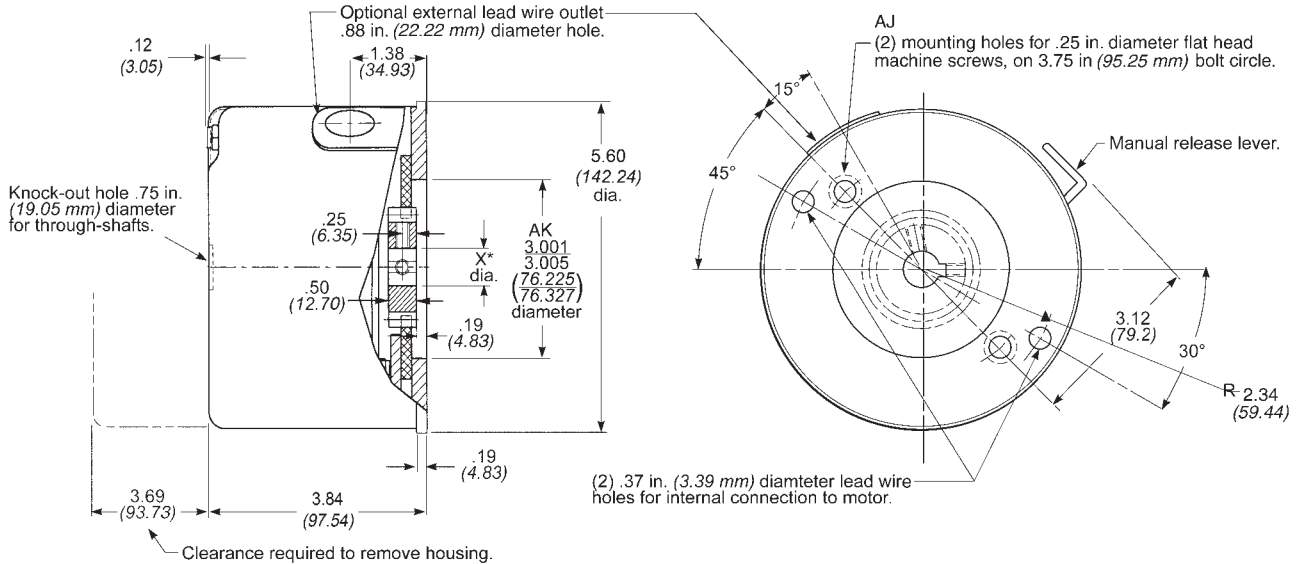
**Installation and Service Instructions:**

P/N 8-078-924-06

**Parts List:** P/N 8-078-914-02



- Adjustable Torque
- Manual Wear Adjustment
- Side Manual Release Lever with Automatic Reset
- Class B Coil Insulation
- Spring-Set Electrically Released
- Lead Wire Length: 24 inches
- Maximum Speed: Horizontal 5000 rpm
- Certified: CSA File LR-6254.



Dimensions for estimating only. For installation purposes request certified prints.

### Specifications

Nominal Static Torque	Number of Friction Discs	Coil Size		Maximum Solenoid Cycle Rate <sup>①</sup>		Thermal Capacity <sup>②</sup>	Inertia (WK <sup>2</sup> )
		AC	DC	cycles/min	hp-sec/min (watts)		
1.5 (2)	1	4	4	40	20	4 (50)	.003 (1.26)
3 (4)	1	K4	4	36	20	4 (50)	.003 (1.26)
6 (8)	1	M4	K4	36	20	4 (50)	.003 (1.26)

① Maximum solenoid cycle rate is based on ambient temperature of 72°F (22°C) with 50% duty cycle. Does not relate to brake cycle rate (see Thermal Capacity).  
 ② Thermal capacity rating is based on ambient temperature of 72°F (22°C), stop time of one second or less, with no heat absorbed from motor. Derate thermal capacity by 25% for vertical mounting. Refer to Selection Procedure Section.

### Unit Data

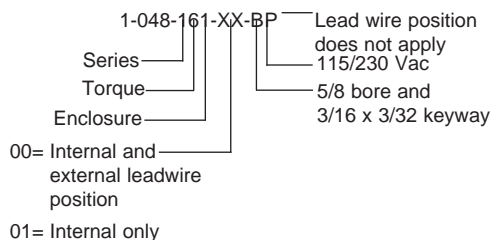
Model Number*	Nominal Static Torque (lb-ft) (Nm)	Weight lbs (kg)
1-048-151-00-XX	1.5 (2)	4.6 (2.1)
1-048-151-01-XX	1.5 (2)	4.6 (2.1)
1-048-161-00-XX	3 (4)	4.6 (2.1)
1-048-161-01-XX	3 (4)	4.6 (2.1)
1-048-171-00-XX	6 (8)	5 (2.3)
1-048-171-01-XX	6 (8)	5 (2.3)

\*Eighth and Ninth positions designate lead wire position: 00 = internal and external 01 = internal only.

### Ordering and Identification Information

The following example and tables provide information for selecting the appropriate three-letter suffix when ordering a Stearns Brake.

Example of a complete part number:



### Current Ratings (amperes)

Coil Size	Current	Voltage: 60 Hz			
		115 Vac	230 Vac	460 Vac	575 Vac
4	Inrush Holding	3.6 .3	1.8 .2	.9 .08	.7 .06
K4	Inrush Holding	4.3 .3	2.2 .2	1.1 .08	.9 .07
M4	Inrush Holding	3.0 .6	1.5 .3	.8 .1	.6 .1

### Hub Selection

Character	Bore (in.)	Keyway** (in. x in.)
A*	5/8	1/8 x 1/16
B	5/8	3/16 x 3/32
C*	3/4	3/16 x 3/32
K	1/2	1/8 x 1/16

Maximum allowable bore .750. For through-shaft applications .625 is maximum

\*These bores are non-standard.

\*\*Keyseats made to ANSI B17.1 Standard.

### Standard AC Voltage Ratings

Character	Voltage	Hz
B	115	60
D	110	50
E	200	60
F	230	60
	190	50
H	220	50
L	460	60
	380	50
M	415	50
N	575	60
O	110/220	50
P	115/208-230	60
Q	208-230/460	60
	190/380	50
R	200/400	60

Includes DC electronic switch (polarized).

Modifications are available—see SAB Modification Section