



# Product Line Overview

BRAKES, CLUTCHES & SINPAC®  
SOLID STATE SWITCHES



# Stearns™ Brakes Set The Standard

Stearns™ is a market leader in delivering quality products, exceptional service, and engineering expertise. With over 100 years of proven dependability, we provide exceptional on-time delivery, shorter lead times, comprehensive pre- and post-sale support, and a dedicated R&D lab for rapid prototyping.

## AC STYLE MOTOR BRAKES | SOLENOID ACTUATED BENEFITS

- Market leader & primary supplier to all US motor manufacturers
- Broad range of torque, enclosures & options to meet customer applications
- Standard AC voltage
- Rapid response times for set & release of brakes
- Brakes are easily repaired with readily available parts
- The ONLY manufacturer offering self-adjusting brakes & producing its own friction discs

## DC STYLE MOTOR BRAKES | ARMATURE ACTUATED BENEFITS

- Standard DC voltage; can be rectified for AC
- Simple construction, fewer wear parts, longer life with high cycle rates
- Available in metric or NEMA frame sizes
- Quiet brake features available for sound sensitive environments

## ENCODER BRAKE BENEFITS

- Cast-aluminum housing that meets IP 56 requirements
- Optimized for cool temperature operation

## SINPAC® SINGLE PHASE MOTOR SWITCH BENEFITS

- Solid-state switches are superior to mechanical switches
- Extends the life & reliability of the motor, especially for high-cycling or “dirty” environments
- Fast & easy to install & replace mechanical switches
- Sealed, spark-free switches for challenging environments
- Our parts work for a variety of motor manufacturers
- Capacitor start, capacitor start & run, & instant reversing
- A few SINPAC® switches replace dozens of mechanical switches

## SHAFT-MOUNTED CLUTCH BENEFITS

- Electrically engaged clutches for high torque-to-size & parallel shaft drive applications
- One-piece, pre-aligned models for fast & easy installation
- Standard DC units with separate rectifiers or Tor-ac units with built-in rectifiers
- Available in multiple sizes

## KEY INDUSTRIES

- Agriculture
- Cement & Aggregate
- Crane & Hoist
- Food & Beverage
- Marine, Maritime & Navy
- Material Handling

## CERTIFICATIONS

- ISO 9001:2015
- RoHS Compliant
- UL Recognized / UL Listed
- cULus Listed
- ABS Type Approved
- MSHA Certified

## MANUFACTURING FACILITY

- Research & Development Lab
- CNC/DNC Machine Shop
- Complete Assembly Capability
- Internal Six Sigma
- Lean Manufacturing

# Solenoid Actuated Brakes

CLOSE COUPLED FOR NON-DRIVE END OF MOTOR  
MOUNTS DIRECTLY TO MOTOR | AC OPERATED



## 48,100 SERIES

Details	Data
NEMA Frame	48C
Torque (lb-ft)	1.5 - 6
Torque (Nm)	2 - 8
Enclosure	UL Type 1
IP Rating	23



## 56,X00 SERIES

Details	Data
NEMA Frame	56C - 145TC
Torque (lb-ft)	1.5 - 25
Torque (Nm)	2 - 34
Enclosure	UL Type 1, Type 4X
IP Rating	21, 23, 54, 56



## 56,900 SERIES

Details	Data
NEMA Frame	56C - 145TC
Torque (lb-ft)	3 - 25
Torque (Nm)	4 - 34
Enclosure	UL Type 4X
IP Rating	56



## 87,000 SERIES

Details	Data
NEMA Frame	182TC - 256TC/UC
Torque (lb-ft)	6 - 125
Torque (Nm)	8 - 169
Enclosure	UL Type 1, Type 4X
IP Rating	23, 54, 56



## 87,100 SERIES

Details	Data
NEMA Frame	284TC/UC - 286TC/UC
Torque (lb-ft)	50 - 125
Torque (Nm)	68 - 169
Enclosure	UL Type 1
IP Rating	23, 54, 56



## 81,000 SERIES

Details	Data
NEMA Frame	324 - 405TC/TSC/UC/USC
Torque (lb-ft)	125 - 230
Torque (Nm)	169 - 312
Enclosure	UL Type 1
IP Rating	23, 54, 56



## 82,000 SERIES

Details	Data
NEMA Frame	324 - 405TC/TSC/UC/USC
Torque (lb-ft)	125 - 440
Torque (Nm)	169 - 597
Enclosure	UL Type 1
IP Rating	23, 54, 56



## 86,000 SERIES

Details	Data
NEMA Frame	444 - 445TC/TSC/UC/USC
Torque (lb-ft)	500 - 1000
Torque (Nm)	678 - 1356
Enclosure	UL Type 1
IP Rating	23, 54, 56



## 86,100 SERIES

Details	Data
NEMA Frame	505TC/TSC/UC/USC
Torque (lb-ft)	500 - 1000
Torque (Nm)	678 - 1356
Enclosure	UL Type 1
IP Rating	23, 54, 56

# Solenoid Actuated Brakes

## DIVISION 1 HAZARDOUS LOCATION AC OPERATED



### 65,300 SERIES

Details	Data
<b>NEMA Frame</b>	56C - 145TC
<b>Torque (lb-ft)</b>	1.5 - 15
<b>Torque (Nm)</b>	2 - 20
<b>Enclosure</b>	UL Type 1, 4 NEMA 7, 9
<b>IP Rating</b>	40, 56
<b>UL Listed</b>	File E14893



### 87,300 SERIES

Details	Data
<b>NEMA Frame</b>	182TC - 256TC/UC
<b>Torque (lb-ft)</b>	10 - 105
<b>Torque (Nm)</b>	14 - 142
<b>Enclosure</b>	UL Type 1, 4 NEMA 7, 9
<b>IP Rating</b>	40, 55, 56, 57
<b>UL Listed</b>	File E14893



### 82,300 SERIES

Details	Data
<b>NEMA Frame</b>	324 - 405TC/TSC/UC/USC
<b>Torque (lb-ft)</b>	125 - 330
<b>Torque (Nm)</b>	169 - 447
<b>Enclosure</b>	UL Type 1, 4 NEMA 7, 9
<b>IP Rating</b>	40, 56
<b>UL Listed</b>	File E14893



### 87,300 SERIES

Details	Data
<b>Foot Mounted</b>	-
<b>Torque (lb-ft)</b>	10 - 105
<b>Torque (Nm)</b>	14 - 142
<b>Enclosure</b>	UL Type 1, 4 NEMA 7, 9
<b>IP Rating</b>	40
<b>UL Listed</b>	File E14893



### 82,300 SERIES

Details	Data
<b>Foot Mounted</b>	-
<b>Torque (lb-ft)</b>	125 - 330
<b>Torque (Nm)</b>	169 - 447
<b>Enclosure</b>	UL Type 4 NEMA 7, 9
<b>IP Rating</b>	56
<b>UL Listed</b>	File E14893

## DIVISION 2 HAZARDOUS LOCATION



### 56,800 SERIES

Details	Data
<b>NEMA Frame</b>	56C - 145TC
<b>Torque (lb-ft)</b>	3 - 25
<b>Torque (Nm)</b>	4 - 34
<b>Enclosure</b>	UL Type 4
<b>IP Rating</b>	56
<b>UL Listed</b>	File E14893



### 87,800 SERIES

Details	Data
<b>NEMA Frame</b>	182TC - 256TC/UC
<b>Torque (lb-ft)</b>	6 - 105
<b>Torque (Nm)</b>	8 - 142
<b>Enclosure</b>	UL Type 4
<b>IP Rating</b>	56
<b>UL Listed</b>	File E14893

# Solenoid Actuated Brakes

## DOUBLE C-FACE COUPLER BRAKES FOR DRIVE END OF MOTOR

MOUNTS BETWEEN MOTOR & GEARBOX | SELF-ADJUSTING, AC OPERATED



### 56,700 SERIES

Details	Data
<b>NEMA Frame</b>	56C - 145TC
<b>Torque (lb-ft)</b>	1.5 - 25
<b>Torque (Nm)</b>	2 - 34
<b>Enclosure</b>	UL Type 1, 4X
<b>IP Rating</b>	23, 54, 56



### 87,700 SERIES

Details	Data
<b>NEMA Frame</b>	182TC - 256TC/UC
<b>Torque (lb-ft)</b>	10 - 105
<b>Torque (Nm)</b>	14 - 142
<b>Enclosure</b>	UL Type 1, 4X
<b>IP Rating</b>	23, 54, 56

## FOOT MOUNTED WITH BEARING SUPPORTED THRU-SHAFT



### 56,703 SERIES

Details	Data
<b>NEMA Frame</b>	56C - 145TC
<b>Torque (lb-ft)</b>	1.5 - 25
<b>Torque (Nm)</b>	2 - 34
<b>Enclosure</b>	UL Type 1
<b>IP Rating</b>	23



### 87,200 SERIES

Details	Data
<b>NEMA Frame</b>	182TC - 256TC/UC
<b>Torque (lb-ft)</b>	10 - 105
<b>Torque (Nm)</b>	14 - 142
<b>Enclosure</b>	UL Type 1
<b>IP Rating</b>	23, 54, 56

## SPECIAL APPLICATION BRAKES



### MARINE/MARITIME/NAVY

Details	Data
<b>NEMA Frame</b>	56C - 505USC
<b>Torque (lb-ft)</b>	3 - 1000
<b>Torque (Nm)</b>	4 - 1356
<b>IP Rating</b>	54, 56



### MINING - MSHA CERTIFIED

Details	Data
<b>NEMA Frame</b>	324TC - 405TC
<b>Torque (lb-ft)</b>	125 - 330
<b>Torque (Nm)</b>	169 - 447
<b>IP Rating</b>	56
<b>Certification</b>	MSHA



### ENCODER BRAKES

Details	Data
<b>NEMA Frame</b>	182TC - 505TC
<b>Torque (lb-ft)</b>	25 - 1000
<b>Torque (Nm)</b>	34 - 1356
<b>IP Rating</b>	23, 54, 56, 57
<b>UL Listed</b>	Models Available

# Armature Actuated Brakes

## ARMATURE ACTUATED BRAKES DC OPERATED, AC OPTIONAL



### 310 SERVO BRAKE

Details	Data
Size	1.79 - 5.0
Torque (lb-in)	10 - 350
Torque (Nm)	1.1 - 39.5
Enclosure	Open
UL Recognized	Insulation System File E125303



### 311 SERVO BRAKE

Details	Data
Size	3.38 - 5.0
Torque (lb-in)	75 - 400
Torque (Nm)	8.5 - 45.2
Enclosure	Open
UL Recognized	Insulation System File E125303



### 320 GEAR MOTOR BRAKE

Details	Data
Size	1.2 - 2.8
Torque (lb-in)	3 - 50
Torque (Nm)	0.34 - 5.6
Enclosure	Open
UL Recognized	Insulation System File E125303



### 321 / 322 GEAR MOTOR BRAKE

Details	Data
Size	1.2 - 2.8
Torque (lb-in)	3 - 72
Torque (Nm)	0.34 - 8.1
IP Rating	42, 54
UL Recognized	Insulation System File E125303



### 321 / 322 C-FACE MOUNT

Details	Data
NEMA Frame	48C - 56C
Torque (lb-ft)	1.5 - 25
Torque (Nm)	2 - 34
IP Rating	42, 54
UL Recognized	Insulation System File E125303



### 330 / 331 / 333 METRIC FRAME

Details	Data
Size	72 - 278
Torque (lb-ft)	3 - 300
Torque (Nm)	4 - 400
Enclosure	Open
UL Recognized	Insulation System File E125303



### 330 / 331 / 333 C-FACE FRAME

Details	Data
Size	48C, 56C, 182 - 184TC, 284 - 286TC/324TC - 405TSC
Torque (lb-ft)	3 - 300
Torque (Nm)	4 - 400
IP Rating	43, 54
UL Recognized	Insulation System File E125303



### 350 ENCLOSED C-FACE

Details	Data
Size	182 - 184IC/284 - 286TC/324TC - 405TSC
Torque (lb-ft)	75 - 300
Torque (Nm)	102 - 400
IP Rating	56
UL Recognized	Insulation System File E125303



### 360 ENCLOSED C-FACE

Details	Data
Size	182 - 184IC/284 - 286TC/324TC - 405TSC
Torque (lb-ft)	35 - 300
Torque (Nm)	47 - 400
IP Rating	56
UL Recognized	Insulation System File E125303

# Other Product Offerings

## SPECIAL APPLICATION BRAKES



### THIN PROFILE BRAKE

Details	Data
<b>Mounting</b>	Special Specific
<b>Torque (lb-ft)</b>	42, 84
<b>Torque (Nm)</b>	57, 114
<b>IP Rating</b>	56
<b>UL Recognized</b>	File E71115 Insulation System File E125303



### QUIET BRAKE

Details	Data
<b>NEMA Frame</b>	56C, 182TC - 405TC
<b>Torque (lb-ft)</b>	25 - 300
<b>Torque (Nm)</b>	34 - 447
<b>IP Rating</b>	43, 56
<b>UL Recognized</b>	Insulation System File E125303

## SINPAC® SWITCHES | ELECTRIC START SWITCHES FOR SINGLE PHASE MOTORS



### CV / 2CV SERIES

Details	Data
<b>Motor Type</b>	Capacitor Start
<b>Max Motor HP</b>	1/2 - 5
<b>Switch Rating</b>	16 - 50 Amps
<b>Start Circuit</b>	115 or 230 Volts
<b>UL Recognized</b>	File E71115



### VR / 2VR SERIES

Details	Data
<b>Motor Type</b>	Capacitor Start & Run
<b>Max Motor HP</b>	1/2 - 5
<b>Switch Rating</b>	16 - 50 Amps
<b>Start Circuit</b>	115 or 230 Volts
<b>UL Recognized</b>	File E71115



### IR SERIES / INSTANT REVERSE

Details	Data
<b>Motor Type</b>	Capacitor Start & Run
<b>Max Motor HP</b>	1/2 - 2
<b>Switch Rating</b>	25 - 40 Amps
<b>Start Circuit</b>	115 Volts
<b>UL Recognized</b>	File E71115

## POWER-ON SHAFT-MOUNTED CLUTCHES



### CCC CLUTCH - CLUTCH COUPLING

Details	Data
<b>Mode of Operation</b>	Power On
<b>Torque (lb-ft)</b>	5 - 145
<b>Horsepower</b>	1/20th to 7-1/2



### CRP CLUTCH - ROTO SHEAVE

Details	Data
<b>Mode of Operation</b>	Power On
<b>Torque (lb-ft)</b>	8.3 - 145
<b>Horsepower</b>	1/12th to 7-1/3



### CRS CLUTCH - ROTO SPROCKET

Details	Data
<b>Mode of Operation</b>	Power On
<b>Torque (lb-ft)</b>	8.3 - 145
<b>Horsepower</b>	1/12th to 7-1/3



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