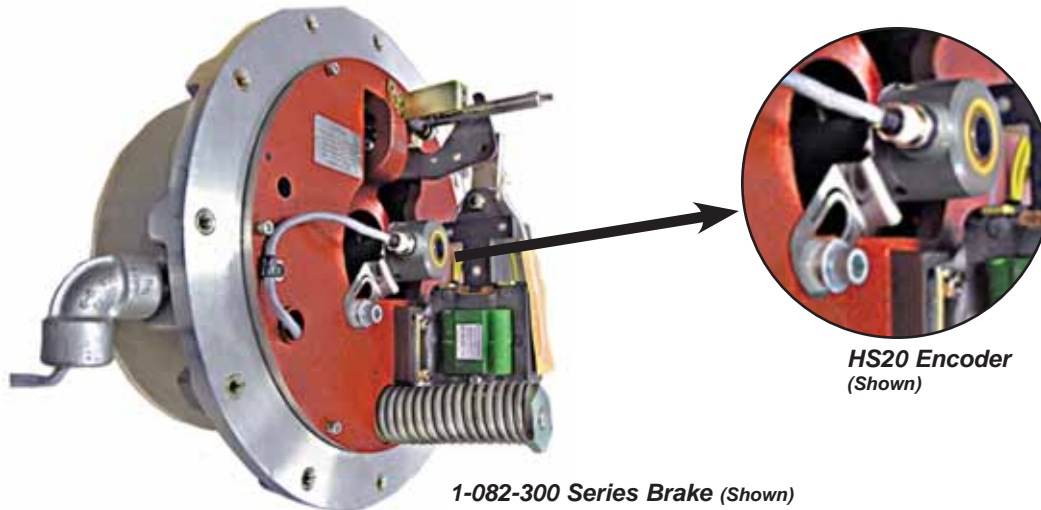


Encoder Brakes

Stearns Solenoid Actuated Brakes
with Internally Mounted Encoder



Features

- Available in frame sizes 182TC - 505TC
- All enclosure ratings available, including hazardous location
- Separate conduit exits are provided for the brake and encoder leads, to minimize potential electrical interference
- Choice of encoder manufacturers - Dynapar and BEI

Benefits

- Encoder located in protected environment - enclosed inside the brake housing
- Simplified encoder mounting - using a hub or shaft-mount encoder - and it's already done!
- Reduced package length - an internal encoder does not add any length to the brake
- Lower installed cost

Ordering Information

Stearns brakes with internal encoders are purchased through the motor manufacturer, as the required shaft length and diameter are non-standard. An internal encoder is not a retrofit option, like a brake coil, heater or switch. To order the brake-motor package, specify the brake model and encoder option from the table on the reverse side of this page.



Rexnord Industries, LLC
Stearns Division
5150 S. International Drive
Cudahy, WI 53110
Ph: 414.272.1100
Fax: 414.277-4364
www.stearns.rexnord.com

Ordering Information

For Stearns Solenoid Actuated Brakes (SABs), with internal encoders -
Specify the complete brake model number and an option number from the following table

Industrial Locations¹

| Frame Size | Brake Series | Torque Range (lb-ft) | Encoder Options ² | Connector / Cable ³ | List Price Adder | Stearns Drawing No. ⁴ | Option Number for Ordering |
|-------------|--------------|----------------------|------------------------------|-------------------------------------|----------------------------------------------|----------------------------------|----------------------------|
| 182TC-256TC | 1-087-EX2 | 25 - 105 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$2,700 ⁵ \$3,250 ⁵ | 1087E00ED 1087E00ED | 87E-D1 87E-B1 |
| 324TC-405TC | 1-081-XXX | 125 - 230 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$2,500 \$3,000 | 10810022ED 10810022ED | 810-D1 810-B1 |
| 324TC-405TC | 1-082-XXX | 125 - 440 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$2,500 \$3,000 | 10820022ED 10820022ED | 820-D1 820-B1 |
| 444TC-505TC | 1-086-XXX | 500 - 1000 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$2,500 \$3,000 | 10860022ED 10860022ED | 860-D1 860-B1 |

Division 1 Hazardous Location⁶

| | | | | | | | |
|-------------|-----------|-----------|--------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------|------------------|
| 182TC-256TC | 1-087-3X8 | 10 - 105 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$4,450 ⁹ \$4,925 ⁹ | 1087308D ⁷ 1087308D ⁷ | 873-D1 873-B1 |
| 324TC-405TC | 1-082-3X4 | 125 - 330 | Dynapar HS20 BEI HS20 | M12, 8 Pin / 15' M12, 8 Pin / 5m | \$6,300 ¹⁰ \$6,775 ¹⁰ | 1082304D ⁸ 1082304D ⁸ | 823-D1 823-B1 |

¹ Brake must be supplied by the motor manufacturer (a longer "stepped-down" motor shaft is required).

² Encoders are Optical, 1024 bit.

³ Cables are shielded. Lengths are from encoder connector, inside the brake (not from outside of brake housing).

⁴ Request this drawing for shaft design requirements.

⁵ List adder to 10870X2.

⁶ No motor shaft modifications required, beyond the brake requirements for a standard hazardous location brake.

⁷ Drawing 1087308D brake model mounts close-coupled to the motor end bell.

For the brake model that mounts to the motor fan guard, refer to drawing 10873081D.

For the brake model that mounts to the motor fan guard - with a slinger - refer to drawing 10873052D.

⁸ Drawing 1082304D brake model mounts close-coupled to the motor end bell.

For the brake model that mounts to the motor fan guard, refer to drawing 10823042D.

⁹ List adder to 10873X4

¹⁰ List adder to 10823X4.

In addition to the fully enclosed brake with internal encoder option, encoders can be adapted externally to Stearns brakes:

