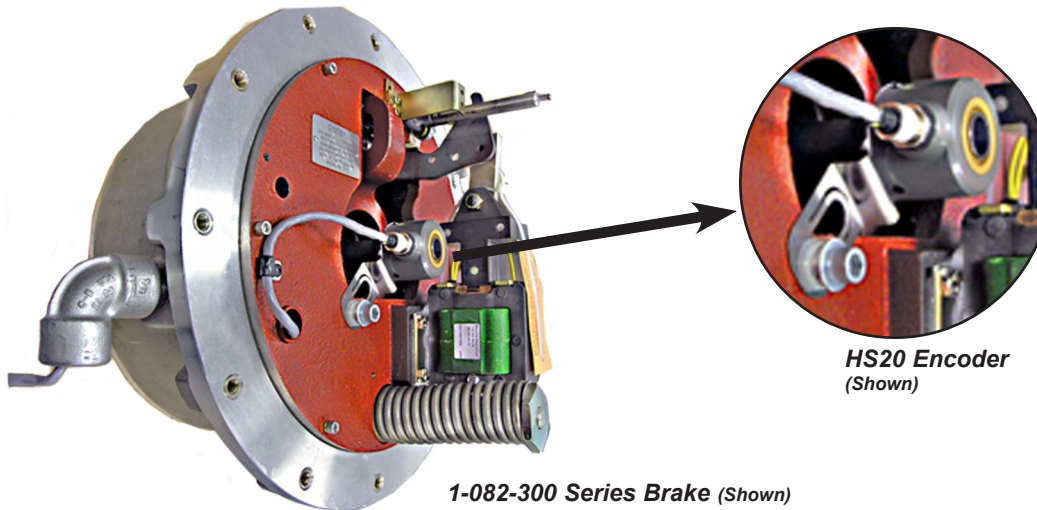


Encoder Brakes

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 should be purchased through the motor manufacturer, as a special shaft length and diameter may be required. To order the brake-motor package, specify the brake model and encoder option from the table on the reverse side of this page.

Ordering Information

For Stearns Solenoid Actuated Brakes (SABs), with internal encoders -

Industrial Locations

Frame Size	Brake Series	Torque Range (lb-ft)	Encoder Options ¹	Connector / Cable ²	List Price Adder ³	List Price Adder ⁴	Stearns Drawing No. ⁵
182TC-256TC	1-087-EX2	25 - 105	Dynapar HS20	M12, 8 Pin / 15'	\$2,025 ⁶	\$2,945	1087E00ED
			BEI HS20	M12, 8 Pin / 5m	\$4,025 ⁶	\$4,945	1087E00ED
			BEI HS25	10 Pin / 20'	\$4,495 ⁶	\$4,415	
324TC-405TC	1-081-XXX	125 - 230	Dynapar HS20	M12, 8 Pin / 15'	\$2,500 ⁷	\$3,420	10810022ED
			BEI HS20	M12, 8 Pin / 5m	\$4,500 ⁷	\$5,420	10810022ED
			BEI HS25	10 Pin / 20'	\$4,970 ⁷	\$5,890	
324TC-405TC	1-082-XXX	125 - 440	Dynapar HS20	M12, 8 Pin / 15'	\$2,500 ⁷	\$3,420	10820022ED
			BEI HS20	M12, 8 Pin / 5m	\$4,500 ⁷	\$5,420	10820022ED
			BEI HS25	10 Pin / 20'	\$4,970 ⁷	\$5,890	
444TC-505TC	1-086-XXX	500 - 1000	Dynapar HS20	M12, 8 Pin / 15'	\$2,500 ⁷	\$3,420	10860022ED
			BEI HS20	M12, 8 Pin / 5m	\$4,500 ⁷	\$5,420	10860022ED
			BEI HS25	10 Pin / 20'	\$4,970 ⁷	\$5,890	10860022ED
			BEI HS35M	10 Pin MS / 15'	\$6,100 ⁷	\$7,020	10860022E35D

Division 1 Hazardous Location⁸

182TC-256TC	1-087-3X8	10 - 105	Dynapar HS20 BEI HS20	M12, 8 Pin / 15' M12, 8 Pin / 5m	\$1,780 ⁹		1087308D ¹¹
					\$3,805 ⁹		1087308D ¹¹
324TC-405TC	1-082-3X4	125 - 330	Dynapar HS20 BEI HS20	M12, 8 Pin / 15' M12, 8 Pin / 5m	\$6,300 ¹⁰		1082304D ¹²
					\$8,325 ¹⁰		1082304D ¹²

¹ Encoders are Optical, 1024 PPR. Options shown or factory approved equivalents may be used.

² Cables are shielded. Lengths are from encoder connector, inside the brake (not from outside of brake housing).

³ Brake must be supplied by the motor manufacturer (a longer "stepped-down" (5/8" diameter) motor shaft is required).

⁴ A special/longer brake hub is supplied (with 5/8" diameter extension for encoder).

⁵ Request this drawing for shaft design requirements.

⁶ List adder to 10870X0.

⁷ List adder to IP54 brake models.

⁸ No motor shaft modifications required, beyond the brake requirements for a standard hazardous location brake.

⁹ List adder to 10873X5 or 10873X8.

¹⁰ List adder to 10823X4.

¹¹ 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.

¹² 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.

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

