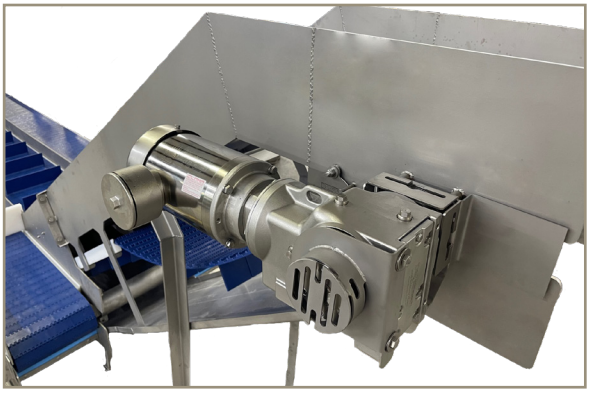
STERLING ELECTRIC, INC.

# Don't let your Incline Conveying Application send your production flowing downhill.

Sterling Electric provides a flexible solution to your application requirements with our easy to install Stainless Steel Constructed Backstop Kits. A simple installation between your motor and the input shaft of our Stainless Steel Helical Bevel or Inline Helical Reducers keeps your production and facilities safety running worry free.



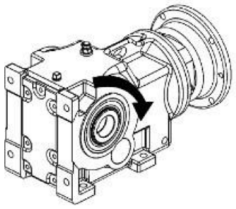
## BACKSTOP SELECTION

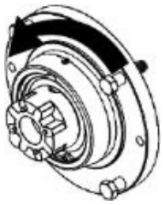
Rotation of output shaft must be specified at time of ordering as viewed from the output shaft end (see diagram below). Under normal running conditions, no maintenance will be required.

Operating temperature range: -40°F (-40°C) to 212°F (+100°C). Peaks up to 248°F (+120°C) are acceptable for short periods.

DO NOT exceed backstop maximum holding torque of 25lb-ft (34 Nm) for 56C/140TC size backstop and 88lb-ft (119Nm) for 180TC size backstop. DO NOT exceed backstop maximum rated over speed of 3000 RPM.

### CW OUTPUT SHAFT ROTATION

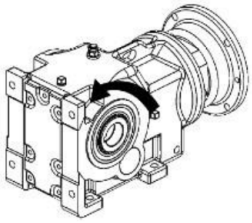




BACKSTOP ROTATION

| NEMA FRAME | BACKSTOP PART NUMBER |
|---|---|
| 56C | SSKR0456BSLH |
| 140TC | SSKR04140BSLH |
| 180TC | SSKR06180BSLH |

### CCW OUTPUT SHAFT ROTATION



BACKSTOP ROTATION

| NEMA FRAME | BACKSTOP PART NUMBER |
|---|---|
| 56C | SSKR0456BSRH |
| 140TC | SSKR04140BSRH |
| 180TC | SSKR06180BSRH |

# BACKSTOP INSTALLATION

The backstop is assembled at the factory and labeled a with tamper detection mark. Disassembly of the backstop for any reason will void any and all warranties.

The backstop is supplied with the proper mounting hardware which includes the mounting bolts, coupling spider, and O-ring which is to be mounted between the motor C-face and the backstop.

Check to make sure the backstop rotates in the proper direction for the application referring to the previous section.

## Refer to the diagram below for assembly.

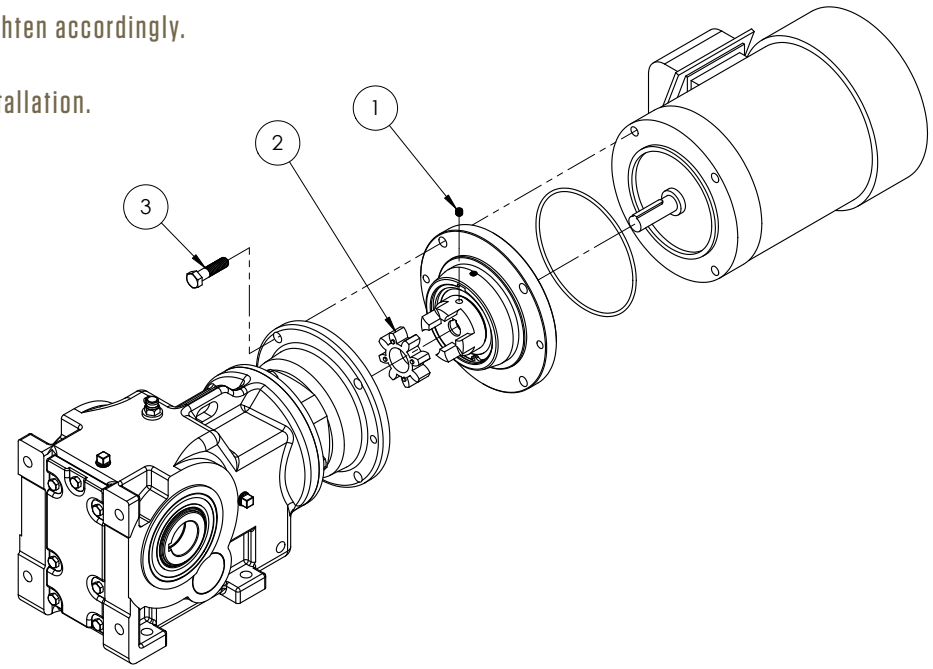
1. Install backstop on motor shaft orientating the backstop until the word "TOP" is aligned at the 12 o'clock position. Make sure the motor shaft key is positioned properly and the mating faces of the motor and backstop are flush. The use of an approved anti-seize compound is recommended to facilitate motor removal at a future date if required.

2. Tighten item (1) set screw to lock motor shaft key in place.

3. Install item (2) coupling spider and align with input coupling half of the reducer. Install motor/backstop combination making sure the mating surfaces of the reducer input flange and backstop are flush.

4. Install item (3) mounting bolts and tighten accordingly.

5. Removal of backstop is reverse of installation.




## WARNING:

DO NOT remove motor or backstop until all driven equipment if fully secured and made safe. Failure to do so may result in bodily injury and/or damage to equipment.

FOR PRICE AND AVAILABILITY INFORMATION CONTACT YOUR LOCAL STERLING REPRESENTATIVE OR OUR INSIDE SALES STAFF AT
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