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| PART NUMBER   | ST-11P2 CARTRIDGE | FORWARD<br>TORQUE, Nm<br>(in-lbf) | REVERSE<br>TORQUE, Nm<br>(in-lbf) | AVERAGE ULTIMATE<br>RADIAL LOAD, N/lbf |               | AVERAGE ULTIMATE<br>AXIAL LOAD, N/lbf | CYCLE<br>LIFE | MAXIMUM WORKING<br>LOAD, N/lbf |                 | REVISION HISTORY |           |         |                 |
|---------------|-------------------|-----------------------------------|-----------------------------------|----------------------------------------|---------------|---------------------------------------|---------------|--------------------------------|-----------------|------------------|-----------|---------|-----------------|
|               |                   |                                   |                                   | IN LINE                                | PERPENDICULAR |                                       |               | AXIAL                          | RADIAL, IN LINE | REV              | DATE      | BY      | DESCRIPTION     |
|               |                   |                                   |                                   |                                        |               |                                       |               |                                |                 | C                | 04SEP2019 | KMB/JJT | PRN: P2019-2242 |
| E6-50-535S-ZZ | ST-11P2-350SA1-33 | 3.95 (35)                         |                                   | 2500/562                               | 1500/337      | 2500/562                              | 20,000        | 200/45                         | 200/45          |                  |           |         |                 |
| E6-50-530S-ZZ | ST-11P2-300SA1-33 | 3.39 (30)                         |                                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-525S-ZZ | ST-11P2-250SA1-33 | 2.82 (25)                         |                                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-520S-ZZ | ST-11P2-200SA1-33 | 2.26 (20)                         |                                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-515S-ZZ | ST-11P2-150SA1-33 | 1.69 (15)                         |                                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-540F-ZZ | ST-11P2-400FA1-33 | 4.52 (40)                         | 3.16 (28) REF                     |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-535F-ZZ | ST-11P2-350FA1-33 | 3.95 (35)                         | 2.77 (24.5) REF                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-530F-ZZ | ST-11P2-300FA1-33 | 3.39 (30)                         | 2.37 (21) REF                     |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-525F-ZZ | ST-11P2-250FA1-33 | 2.82 (25)                         | 1.98 (17.5) REF                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-520F-ZZ | ST-11P2-200FA1-33 | 2.26 (20)                         | 1.58 (14) REF                     |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-515F-ZZ | ST-11P2-150FA1-33 | 1.69 (15)                         | 1.19 (10.5) REF                   |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-540R-XX | ST-11P2-400RA1-33 | 3.16 (28) REF                     | 4.52 (40)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-535R-XX | ST-11P2-350RA1-33 | 2.77 (24.5) REF                   | 3.95 (35)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-530R-XX | ST-11P2-300RA1-33 | 2.37 (21) REF                     | 3.39 (30)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-525R-XX | ST-11P2-250RA1-33 | 1.98 (17.5) REF                   | 2.82 (25)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-520R-XX | ST-11P2-200RA1-33 | 1.58 (14) REF                     | 2.26 (20)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |
| E6-50-515R-XX | ST-11P2-150RA1-33 | 1.19 (10.5) REF                   | 1.69 (15)                         |                                        |               |                                       |               |                                |                 |                  |           |         |                 |

SOUTHCO PERFORMANCE GUIDELINES:  
THE PERFORMANCE GUIDELINES SHOWN ON THIS PAGE ARE SUPPLIED AS A  
GENERAL GUIDE ONLY, AS CONDITIONS VARY WITH EACH APPLICATION AND METHOD  
OF INSTALLATION. STRENGTH DATA GIVEN IS FOR FAILURE OF THE PRODUCT OR  
FOR SUFFICIENT DEFORMATION TO MAKE THE PRODUCT INOPERABLE. NO SAFETY FACTOR  
HAS BEEN APPLIED IT IS RECOMMENDED THAT THE USER REQUEST A PRODUCT SAMPLE  
FOR TESTING TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURPOSE INTENDED  
AND USER'S PARTICULAR APPLICATION.

RADIAL  
LOAD

AXIAL  
LOAD

CYCLE  
LOAD

CYCLE TEST SET-UP  
SCALE 1:2

| TYPICAL TORQUE TREND FOR E6-5X-XX-XX (REFERENCE ONLY)  TORQUE RANGE | | | | | | | | | | |
| NOTES:  1. ONE CYCLE = CLOSED POSITION TO OPEN POSITION AT 180° PLUS RETURN TO INITIAL CLOSED POSITION.  2. TORQUE SPECIFICATIONS AT A CYCLE LIFE OF 20,000.  3. PERFORMANCE TORQUE TOLERANCE ±20% OVER 20,000 CYCLES  4. CYCLING TESTING WAS CONDUCTED USING THE FOLLOWING PROFILE: - 5,000 CYCLES AT -20° C  - 10,000 CYCLES AT AMBIENT  - 5,000 CYCLES AT 80° C  CYCLE TEST CONDUCTED TILT MOVEMENT TILT TEST USING A 2.0 kg (4.41 lbm) TEST DISPLAY PANEL.  5. FOR TEST REPORTS SEE trE6-32571 & trST-30682. | | | | | | | | | | |
| |                                                                                                                                                                                                |                           |                                                                                               |     |      |           |       |     |       |        | |------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------|-----|------|-----------|-------|-----|-------|--------| |                                                                                                                                                                                                | THIRD ANGLE<br>PROJECTION | <div><div><div>southco®</div><div>CONNECT • CREATE • INNOVATE</div></div></div>               |     |      |           |       |     |       |        | |                                                                                                                                                                                                | MILLIMETERS [IN]          |                                                                                               |     |      |           |       |     |       |        | | SURFACE AREA                                                                                                                                                                                   | mm²                       | TOLERANCES UNLESS OTHERWISE NOTED                                                             |     |      |           |       |     |       |        | | VOLUME                                                                                                                                                                                         | mm³                       | UP TO 0.5 ±0.1<br>OVER 0.5 UP TO 6 ±0.2<br>OVER 6 UP TO 30 ±0.4<br>OVER 30 ±0.6<br>ANGLES ±5° |     |      |           |       |     |       |        | | PROPRIETARY ITEM<br>EXCEPT FOR USES EXPRESSLY GRANTED<br>IN WRITING, INFORMATION DISCLOSED<br>HEREON IS CONFIDENTIAL AND ALL<br>RIGHTS, PATENT AND OTHERWISE,<br>ARE RESERVED BY SOUTHCO, INC. |                           | PER ASME Y14.5M-1994                                                                          |     |      |           |       |     |       |        | |                                                                                                                                                                                                |                           | DRAWN BY                                                                                      | JJT | DATE | 08MAR2018 | SCALE | 1:1 | SHEET | 1 OF 1 | | | | | | | | | | | |

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