

# "SW" SERIES 7" BRUSHLESS AC SERVO MOTORS (WASHDOWN)

(4 or 8 POLE)



Standard Products shown in "Heavy Lined" boxes are available in shorter lead times.

| Continuous Torque<br>lb-in (Nm)<br>(Note 2) | Winding (RPM) /<br>Current (Amps) RMS<br>(Note 2) | Output Shaft<br>Diameter x Extension<br>Keyway<br>Width x Length  | Front<br>Mounting | Magnet Type | Brake  | Winding Voltage /<br>Sealing /<br>Thermal Protection<br>(Note 1) | Commutation<br>Device   | Additional Feedback<br>Device or Mount/<br>Optional Sealing<br>(Note 3) | Connection<br>Method   |                 |  |                 |  |                 |   |                 |   |                 |   |   |
|---|---|---|-------------------|-------------|--|--|---|---|--|-----------------|--|-----------------|--|-----------------|---|-----------------|---|-----------------|---|---|
| 73-B  | 167 / (18.9) 1500 / 10.0                          | <b>NEMA 56C / D Modified</b><br>Sq. Flange 7.00 in.<br>1.375 x 3.125 in. 4.50 in. Pilot<br>Keyway (4) .531 in Holes<br>.312 x 2.50 in. on a 7.875 in B.C.<br>AND<br>(4) .375-16 UNC-2B<br>Thread<br>.56 in. Deep Holes<br>on 5.875 in. B.C. | E                 | S           | 8 Pole<br>SAMARIUM<br>COBALT<br>SmCo   | ∅  | Without<br>Brake  | ∅   | 230 V<br>IP 66<br>Sealing  | ∅               | No Feedback  | ∅               | Without<br>Secondary<br>Device                                     | 1               | MS Connectors<br>Direct to Endbell<br>With Straight<br>IP 67 Mating<br>Connectors |                 |   |                 |   |   |
| 73-C  | 167 / (18.9) 2250 / 12.6<br>(M473C = M330)        |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 74-A  | 212 / (24.0) 1300 / 10.0                          | <b>DIN Normal Tolerances</b><br>Sq. Flange 177.8 mm<br>32 x 58 mm 180 mm Pilot<br>Without Keyway (4) 15 mm Holes<br>on 215 mm B.C.  | M                 | 4           | 4 Pole<br>SAMARIUM<br>COBALT<br>SmCo   | B  | Rear Mtd.<br>El. Rel.<br>350 lb-in<br>24 VDC  | 1   | 230 V<br>IP 67<br>Sealing  | 2               | 2 Pole Brushless<br>Pancake Resolver<br>1 transformation<br>6.6 kHz<br>7.5 V RMS input<br>325-003-0007 | A               | Direct Coupled<br>2 Pole<br>Resolver                               | 2               | MS Connectors<br>Direct to Endbell<br>With<br>90° IP 67 Mating<br>Connectors      |                 |   |                 |   |   |
| 74-C  | 212 / (24.0) 2250 / 16.7<br>(M474C = M331)        |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 75-B  | 276 / (31) 1700 / 12.0                            | <b>DIN Normal Tolerances</b><br>Sq. Flange 177.8 mm<br>32 x 58 mm 180 mm Pilot<br>Captive Keyway (4) 15 mm Holes<br>10 x 50 mm on 215 mm B.C.   | N                 | 6           | 230 V<br>IP 68 Sealing<br>Black<br>Anodized<br>Exterior with<br>Stainless Steel<br>Shaft<br>(Connection<br>Option 3, 6<br>H, K or M<br>Must Be Used) | 6  | 230 V<br>IP 67<br>Sealing   | 5   | 2 Pole Brushless<br>Pancake Resolver<br>.5 transformation<br>10 kHz<br>7 V RMS input<br>325-005-0015 | A               | 2 Pole Brushless<br>Pancake Resolver<br>0.25:1 Ratio<br>4.0 kHz<br>6.0 V RMS input<br>325-005-0008     | B               | BEI H25E or D<br>Mtg. Only 1:1                                     | 3               | MS Connectors<br>Direct to Endbell<br>Without<br>Mating<br>Connectors             |                 |   |                 |   |   |
| 76-A  | 328 / (37.1) 1300 / 15.0                          |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 76-B  | 328 / (37.1) 1700 / 20.0                          | <b>DIN 42955-R Tolerances</b><br>for Option "M" Measurements  | P                 | 2           | 460 V<br>IP 66<br>Sealing  | 2  | 460 V<br>IP 66<br>Sealing   | B   | 2 Pole Brushless<br>Pancake Resolver<br>0.5:1 Ratio<br>5.0 kHz<br>4.0 V RMS input<br>325-005-0005    | D               | Hdhn Rod 426<br>Mtg. Only 1:1  | 4               | Add on Box<br>With Terminal<br>Strip<br>Rear Facing<br>Blank Plate |                 |   |                 |   |                 |   |   |
| 76-C  | 328 / (37.1) 2250 / 25.7<br>(M476C = M334)        |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 77-A  | 372 / (42.1) 1100 / 15.0                          | <b>DIN Normal Tolerances</b><br>Sq. Flange 177.8 mm<br>32 x 60 mm 130 mm Pilot<br>Without Keyway (4) 15 mm Holes<br>on 215 mm B.C.<br>AND<br>M10 x 1.50-SH Tap<br>(4) Holes on 165 B.C.   | L                 | 3           | 460 V<br>IP 67<br>Sealing  | 3  | 460 V<br>IP 67<br>Sealing   | Encoder<br>200 kHz<br>AM26LS31 RS422<br>line driver                     | E  | 1000 lines/rev. | F  | 1024 lines/rev. | G  | 2000 lines/rev. | H   | 2048 lines/rev. | M | 4096 lines/rev. | C | VEAM<br>CIR020R SERIES<br>CONNECTORS<br>Direct to Endbell<br>Without Mating<br>Connectors |
| 77-B  | 372 / (42.1) 1500 / 20.0                          |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 77-C  | 372 / (42.1) 2250 / 29.0<br>(M477C = M337)        | Shaft & Flange same as "L" Except<br>With Captive Keyway 10 x 50 mm   | S                 | 4           | 460 V<br>IP 68 Sealing<br>Black<br>Anodized<br>Exterior with<br>Stainless Steel<br>Shaft<br>(Connection<br>Option 6 or H Must<br>Be Used)            | 4  | 460 V<br>IP 68 Sealing<br>Black<br>Anodized<br>Exterior with<br>Stainless Steel<br>Shaft<br>(Connection<br>Option 6 or H Must<br>Be Used) | S   | Stegmann<br>Single-Turn<br>Absolute  | H               | IP 68 Only<br>MS Connectors<br>Direct to Endbell<br>With Straight<br>(Sealite) Mating<br>Connectors    |                 |  |                 |   |                 |   |                 |   |   |
| 79-A  | 440 / (49.7) 1000 / 15.0                          |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 79-B  | 440 / (49.7) 1500 / 23.0                          | <b>DIN 42955-R Tolerances</b><br>for Option "L" Measurements  | T                 | T           | Stegmann<br>Multi-Turn<br>Absolute   | T  | Stegmann<br>Multi-Turn<br>Absolute  | K   | IP 68 Only<br>MS Connectors<br>Direct to Endbell<br>with 90° (Cable)<br>Mating<br>Connectors         |                 |  |                 |  |                 |   |                 |   |                 |   |   |
| 79-C  | 440 / (49.7) 2000 / 30.0                          |   |                   |             |  |  |   |   |  |                 |  |                 |  |                 |   |                 |   |                 |   |   |
|   |   | <b>DIN 42955-R Tolerances</b><br>for Option "N" Measurements  | V                 | M           | 4  | M  | 4   | M   | T  | M               | IP 68 Only<br>MS Connectors<br>Direct to Endbell<br>with 90° (Sealite)<br>Mating<br>Connectors         |                 |  |                 |   |                 |   |                 |   |   |

- Notes:
- Thermoswitch rating 180° C - in motor winding, all 3 phases (normally closed contact).
  - Derate the motor continuous torque by 6% and use 1/2 the listed current for 480 volt motors.
  - All motors include standard shaft seal unless specified otherwise.



Replaces all previous pricing sheets.  
 All data subject to change without notice.  
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 ECO: RELEASED EPN: 307-670-0106C  
 (997-002-6477)