

**SX Series 7.00" (177.8mm) Frame, 8 Pole, AC (BLDC) Servo Motors
Explosion Proof (Hazardous Location)**



Winding			
Torque, Cont.	Winding Speed (lb-in) (RPM)	Current, Cont. (Arms)	
Nm (Note 2)	(lb-in) (Note 2)	(RPM) (Note 2)	

73-C	16.1 (142.5)	1900	11.3
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74-C	20.4 (180.6)	2000	15.1
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76-C	31.5 (278.8)	2000	23.1
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77-C	35.8 (316.9)	2000	26.1
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Shaft & Mounting	
Output Shaft	Front Mounting
Diameter x Extension	
Keyway: Width x Length	
(Shaft Mat'l: ASTM A311 unless spec'd otherwise)	

M	Same as Option N except without keyway
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DIN 42955-N Tolerances	
Class I	Sq. Flange 177.8mm Shaft: Ø32mm x 58mm Ø180mm Pilot
Class II	(4) Ø15 mm holes on Ø215mm BC Shaft: Ø32mm x 67mm
Class I & II	Captive Keyway 10mm x 50mm

P	Same as Option M except with DIN 42955-R Tolerances
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R	Same as Option N except with DIN 42955-R Tolerances
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Magnetic Material & Finish	
S	SmCo Black Paint

Brake (Electric Release)	
O	Without Brake
B	(7" Frame Only) 24VDC 39.8 Nm 350 lb-in 131-011-0008

Winding Voltage, Sealing & Hazardous Location Classification	
7	230V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T3C
A	460V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T3C
B	230V w/ Seals UL Listed, Class II Div. 1 & 2 Groups E, F, & G, T3C
C	460V w/ Seals UL Listed, Class II Div. 1 & 2 Groups E, F, & G, T3C

Commutation / Feedback Device	
5	2-Pole Brushless Resolver 0.5xfmr, 10kHz, 7.0Vrms Input EPN: 325-005-0015
A	2-Pole Brushless Resolver 0.25xfmr, 4kHz, 6.0Vrms Input EPN: 325-005-0008
D	Heidenhain, EnDat 2.2/01 Absolute, Multi-turn
G	Incremental Encoder, 500kHz AM26LS31 RS422 Line Driver 2000 Lines / Rev (Other resolutions available on request)
P	Absolute, SICK Hiperface/DSL EKM36: Absolute, Multi-Turn
S	Absolute, SICK Hiperface SR550: Absolute, Single-Turn
T	Absolute, SICK Hiperface SRM50: Absolute, Multi-Turn
U	1Vpp Sin/Cos Incremental w/ TTL Commutation (Halls) 512 cycles/rev

Secondary Resolver Mounting	
O	Without Secondary Device

Connection Method	
7	Explosion Proof Straight Fitting Rear Exit Qty 2 – 3/4"NPT x 14Thd/in Male Fittings w/ 36" individual flying leads
8	Explosion Proof Straight Fitting Side Exit Qty 2 – 3/4"NPT x 14Thd/in Male Fittings w/ 36" individual flying leads
A	Explosion Proof Straight Fitting Rear Exit Qty 1 – 1"NPT x 11-1/2 Thd/in Male Fitting w/ 36" individual flying leads
C	Explosion Proof Straight Fitting Side Exit Qty 1 – 1"NPT x 11-1/2 Thd/in Male Fitting w/ 36" individual flying leads
Y	Custom Cable Length (up to 50ft total length) \$30/ft (over 3ft)

Notes:

1. Thermal switch rating 180degC in motor, each winding (3), normally closed contact.
2. De-rate the motor continuous torque by 6% and use ½ the listed current for 460V winding motors.
3. Class II motors have longer shaft extensions to accommodate the dust slinger.



Replaces all previous pricing sheets. All data & prices are subject to change without notice.	
Rev. G (05/08/2018)	EDN: 054293
ECO: 009141	EPN: 307-670-0103C (997-002-6033)