

**SX Series 4.30" (109.2mm) Frame, 6 Pole, AC (BLDC) Servo Motors
Explosion Proof (Hazardous Location)**



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

Shaft & Mounting	
Output Shaft	Front Mounting
Diameter x Extension	
Keyway: Width x Length	
(Shaft Mat'l: ASTM A311 unless spec'd otherwise)	

Magnetic Material & Finish	
N	NdFeB Black Paint

Brake (Electric Release)	
0	Without Brake
B	24VDC 4.5 Nm 40 lb-in 131-011-0005

Winding Voltage & Hazardous Location Classification	
7	230V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4
8	230V w/o Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
9	460V w/o Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
A	460V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4
B	230V w/ Seals UL Listed, Class II, Div.1 & 2 Div 1 & 2, Groups E, F & G, T3C ATEX/IECEX Rated: Zone 21 & 22 ATEX: Ex II 2 D Ex tb IIIC T115 Db IECEX: Ex tb IIIC T115 Db
C	460V w/ Seals UL Listed, Class II, Div.1 & 2 Div 1 & 2, Groups E, F & G, T3C ATEX/IECEX Rated: Zone 21 & 22 ATEX: Ex II 2 D Ex tb IIIC T135 Db IECEX: Ex tb IIIC T115 Db
D	230V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
E	460V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb

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	
0	Without Secondary Device

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

42-E	3.5 (31.0)	2700	3.5
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42-K	3.5 (31.0)	5100	6.3
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43-E	4.7 (41.6)	2600	4.9
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43-K	4.7 (41.6)	5200	9.6
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44-E	6.6 (58.4)	3000	7
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44-H	6.6 (58.4)	3800	9.3
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M	Same as Option N except without keyway
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DIN 42955-N Tolerances	
Class I	Shaft: Ø19mm x 40mm
Class II	Shaft: Ø19mm x 45mm
Class I & II	Sq. Flange 109.2mm Ø95mm Pilot (4) Ø9 mm holes on Ø115mm BC

P	Same as Option R except without keyway
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DIN 42955-R Tolerances	
Class I	Shaft: Ø19mm x 40mm
Class II	Shaft: Ø19mm x 45mm
Class I & II	Sq. Flange 109.2mm Ø95mm Pilot (4) Ø9 mm holes on Ø115mm BC

N	NdFeB Black Paint
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0	Without Brake
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B	24VDC 4.5 Nm 40 lb-in 131-011-0005
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7	230V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4
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8	230V w/o Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
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9	460V w/o Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
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A	460V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4
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B	230V w/ Seals UL Listed, Class II, Div.1 & 2 Div 1 & 2, Groups E, F & G, T3C ATEX/IECEX Rated: Zone 21 & 22 ATEX: Ex II 2 D Ex tb IIIC T115 Db IECEX: Ex tb IIIC T115 Db
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C	460V w/ Seals UL Listed, Class II, Div.1 & 2 Div 1 & 2, Groups E, F & G, T3C ATEX/IECEX Rated: Zone 21 & 22 ATEX: Ex II 2 D Ex tb IIIC T135 Db IECEX: Ex tb IIIC T115 Db
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D	230V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
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E	460V w/ Seals UL Listed, Class I, Div.1 & 2 Groups C & D, T4 ATEX/IECEX Rated: Zone 1 & 2 ATEX: Ex II 2 G Ex db IIB T3 Gb IECEX: Ex db IIB T3 Gb
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5	2-Pole Brushless Resolver 0.5xfmr, 10kHz, 7.0Vrms Input EPN: 325-005-0015
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A	2-Pole Brushless Resolver 0.25xfmr, 4kHz, 6.0Vrms Input EPN: 325-005-0008
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D	Heidenhain, EnDat 2.2/01 Absolute, Multi-turn
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G	Incremental Encoder, 500kHz AM26LS31 RS422 Line Driver 2000 Lines / Rev (Other resolutions available on request)
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P	Absolute, SICK Hiperface/DSL EKM36: Absolute, Multi-Turn
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S	Absolute, SICK Hiperface SR550: Absolute, Single-Turn
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T	Absolute, SICK Hiperface SRM50: Absolute, Multi-Turn
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U	1Vpp Sin/Cos Incremental w/ TTL Commutation (Halls) 512 cycles/rev
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0	Without Secondary Device
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7	Explosion Proof Straight Fitting Rear Exit Qty 1 - 1" NPT x 11-1/2 Thd/in Male Fittings w/ 36" individual flying leads
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8	Explosion Proof Straight Fitting Side Exit Qty 1 - 1" NPT x 11-1/2 Thd/in Male Fittings w/ Explosion Proof
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9	Explosion Proof Straight Fitting Side Exit Qty 2 - 3/4" NPT x 14 Thd/in Male Fitting w/ 36" individual flying leads
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Y	Custom Cable Length (up to 50ft total length) \$30/ft (over 3ft)
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- Notes:**
- Thermal switch rating 155degC in motor, each winding (3), normally closed contact.
 - De-rate the motor continuous torque by 6% and use 1/2 the listed current for 460V winding motors.
 - 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.
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