

SX Series 3.38" (86mm) Frame, 6 Pole, AC (BLDC) Servo Motors
Explosion Proof (Hazardous Location)



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

31-N	1.2 (10.6)	6200	2.8
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32-N	2.4 (21.2)	6200	5.2
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33-F	3.2 (28.3)	2700	4.1
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33-H	3.2 (28.3)	3200	4.5
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33-J	3.2 (28.3)	4100	5.1
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33-M	3.2 (28.3)	6200	7.4
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Shaft & Mounting		
Output Shaft	Diameter x Extension	Front Mounting

M	Same as Option N except without keyway	
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DIN 42955-N Tolerances		
Class I	Shaft: \varnothing 14mm x 30mm	Class I & II Sq. Flange 86mm \varnothing 80mm Pilot
Class II	Shaft: \varnothing 14mm x 34mm	(4) \varnothing 7 mm holes on \varnothing 100mm BC
Class I & II	Captive Keyway: 5mm x 20mm	

P	Same as Option R except without keyway	
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DIN 42955-R Tolerances		
Class I	Shaft: \varnothing 14mm x 30mm	Class I & II Sq. Flange 86mm \varnothing 80mm Pilot
Class II	Shaft: \varnothing 14mm x 34mm	(4) \varnothing 7 mm holes on \varnothing 100mm BC
Class I & II	Captive Keyway: 5mm x 20mm	

Magnetic Material & Finish	
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N	NdFeB Black Paint
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Brake (Electric Release)	
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O	Without Brake
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B	24VDC 4.5 Nm 40 lb-in 131-011-0005
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Winding Voltage, Sealing & Hazardous Location Classification	
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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 T135 Db IECEX: Ex tb IIIC T135 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 T135 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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Commutation / Feedback Device	
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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 SRS50: 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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Secondary Resolver Mounting	
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O	Without Secondary Device
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Connection Method	
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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/ 36" individual flying leads
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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.

M	4	3																	
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Replaces all previous pricing sheets.	
All data & prices are subject to change without notice.	
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