

SX Series 4" Frame, 6 Pole, AC (BLDC) Servo Motors
Explosion Proof (Hazardous Location)



	Winding		Current Cont. (Arms)
	Torque Nm (Note 2)	Winding Speed (RPM) (Note 2)	
42-E	3.5	(31.0)	2700
42-K	3.5	(31.0)	5100
43-E	4.7	(41.6)	2600
43-K	4.7	(41.6)	5200
44-E	6.6	(58.4)	3000
44-H	6.6	(58.4)	3800

	Shaft & Mounting	
	Output Shaft Diameter x Extension Keyway Width x Length	Front Mounting
D	NEMA 42D Flange - 063 Shaft Class I ONLY Sq. Flange 4.30in Shaft: 0.625 x 1.375in Full Keyway 0.1875in x 1.000in	02.187in Pilot Holes on 04.95in BC

Magnetic Material & Finish
N NdfFeB Black Paint 1131 Steel Shaft

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

Winding Voltage & Hazardous Location Classification
7 230V UL Listed, Class I Div 1 & 2, Groups C & D
8 230V UL Listed, Class I Div 1 & 2, Groups C & D AND ATEX Rated Zone 1 & 2 (Ex d IIB T3)
9 460V UL Listed, Class I Div 1 & 2, Groups C & D AND ATEX Rated Zone 1 & 2 (Ex d IIB T3)
A 460V UL Listed, Class I Div 1 & 2, Groups C & D
B 230V UL Listed, Class II Div 1 & 2, Groups E, F, & G
C 460V UL Listed, Class II Div 1 & 2, Groups E, F, & G

Commutation / Feedback Device
2 2 Pole Brushless Pancake Resolver 1.04 Transformation 6.6kHz 7.5Vrms Input Special Option (Consult Factory) EPN: 325-003-0007
5 2 Pole Brushless Pancake Resolver 0.5 Transformation 10kHz 7.0Vrms Input EPN: 325-005-0015
A 2 Pole Brushless Pancake Resolver 0.25 Transformation 4kHz 6.0Vrms Input EPN: 325-005-0008
B 2 Pole Brushless Pancake Resolver 0.5 Transformation 5kHz 4.0Vrms Input EPN: 325-005-0005
D Absolute, Heidenhain, EnDat Multi-Turn
E Encoder 500MHz AM26LS31 RS422 Line Driver
F 1000 Lines / Rev
G 1024 Lines / Rev
H 2000 Lines / Rev
M 2048 Lines / Rev
S Absolute, Stegmann, Hiperface SRS50 - Single-Turn
T Absolute, Stegmann, Hiperface SRM50 - Multi-Turn

Secondary Resolver Mounting
0 Without Secondary Device
A Direct Coupled, 2-Pole Resolver EPN: 325-001-0002

Connection Method (Note 3)
7 Explosion Proof Straight Fitting Rear Exit Qty 1 - 1" NPT x 11-1/2 Thd/in 36" individual flying leads #N/A
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)

NEMA 56C / D Modified	
Class I Shaft: 0.625in x 2.06in	Class I & II Sq. Flange 6.00in 04.50in Pilot (4) 0.406 in Holes on 07.00 in BC & (4) 0.375-16 UNC-2B Thread
Class II Shaft: 0.625 in x 2.27 in	Class I & II Full Keyway 0.1875 in x 1.50 in 0.56in Deep Holes on 05.875in BC

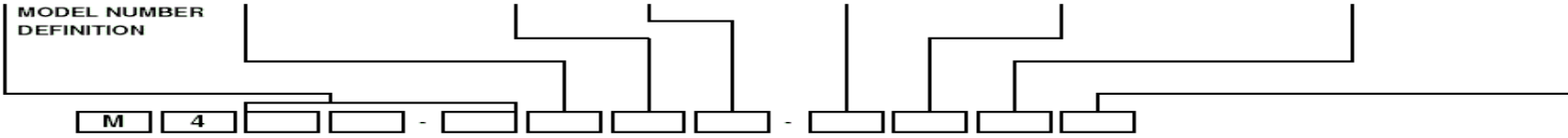
DIN 42955-N Tolerances	
Class I Shaft: 019mm x 40mm	Class I & II Sq. Flange 109.2mm 095mm Pilot (4) 09 mm holes on 0115mm BC
Class II Shaft: 019mm x 45mm	Class I & II Captive Keyway 6mm x 30mm

M Same as Option N except without keyway

DIN 42955-R Tolerances	
Class I Shaft: 019mm x 40mm	Class I & II Sq. Flange 109.2mm 095mm Pilot (4) 09 mm holes on 0115mm BC
Class II Shaft: 019mm x 45mm	Class I & II Captive Keyway 6mm x 30mm

P Same as Option R except without keyway

MODEL NUMBER DEFINITION



- Notes:**
1. Thermo switch rating 155degC in motor, each winding (3), normally closed contact.
 2. Derate the motor continuous torque by 6% and use 1/2 the listed current for 460V winding motors.
 3. M44x Connectors: Screw on connectors are not available on Explosion Proof motors.
 4. 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. E (04-30-2015) EDN: 051655
 ECO: 007753 EPN: 307-640-0103C
 (997-002-5680)