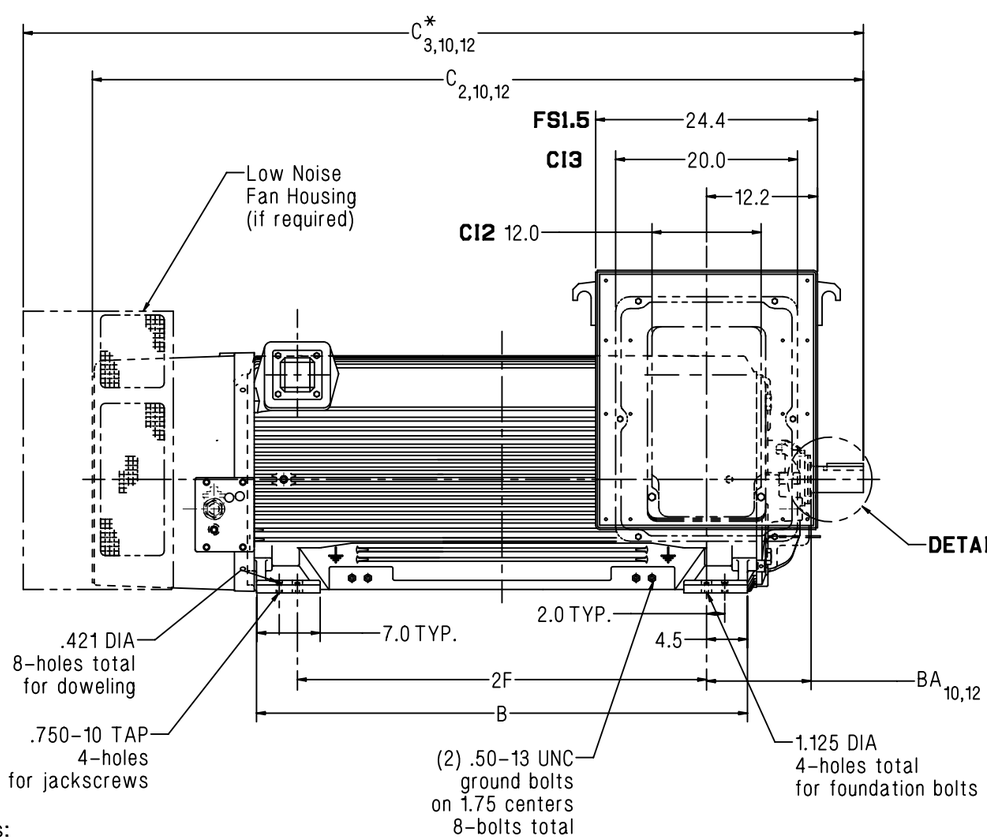
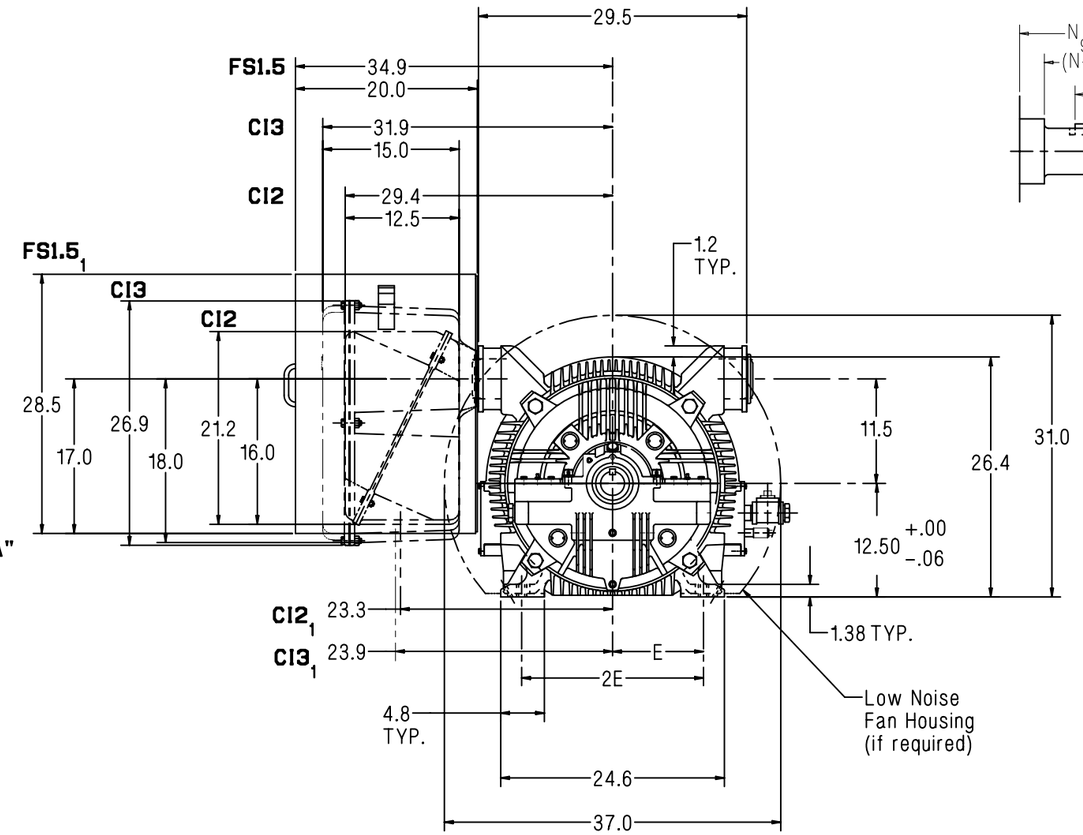
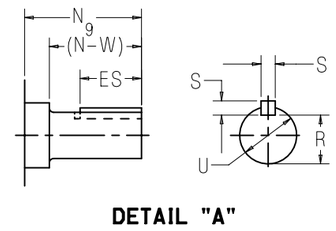
SIEMENS

Dimension Prints for AboveNEMA Motors

Type CZ – Horizontal – Totally Enclosed Fan Cooled
Sleeve Bearing – Direct Connected
Frames 509 / 5011 / 5013 – Rotatable Main Conduit Box







DETAIL "A"

Notes:

1. Main conduit box may be rotated in steps of 90°.
   A removable bottom plate is supplied on the FS1.5 conduit box.
   A 5.0 N.P.T. is supplied on the CI2 and CI3 conduit boxes.
2. C = Length of motor from drive end of shaft to end of standard fan housing.
3. C*= Length of motor from drive end of shaft to end of low noise fan housing.
4. V = (N–W)–0.25" = length of shaft available for coupling.
5. 2 Pole machines may rotate in one direction only.
6. Shims may be necessary under motor feet for direct connection.
7. Rotor end float = 0.5"
8. End float of LEF coupling = 0.19"
9. Adding a rotating labyrinth seal to the drive end decreases N by:
   2 Pole: 0.55"
10. When adding a ground brush, consult the factory. (BA, C, and C* will increase.)
11. For motors equipped with provisions for proximity probes use this print for our standard internal mounting.
12. An external keyphasor, if requested, mounts on the drive end.
    An external keyphasor (with or without rotating labyrinth seal) increases BA, C, and C* by:
    2 Pole: 2.00"

Lubrication Per Bearing
2 Pole
140 – 160 SUS @ 100°F
1.5 qt capacity

Standard Dimensions in Inches

Shaft	Frame	Speed	B	$BA_{10,12}$	$C_{2,10,12}$	$C^*_{3,10,12}$	E	2F	N_9	(N–W)	R	S	U	V_4	ES	Approx. Ship Wt. (Lbs)
Short	509SY	2 Pole	37.0	11.50	68.3	75.9	10.00	28.0	5.50	5.25	2.275	0.625	2.625	5.00	3.5	4600
Short	5011SY	2 Pole	45.0	11.50	75.3	82.9	10.00	36.0	5.50	5.25	2.275	0.625	2.625	5.00	3.5	5350
Short	5013SY	2 Pole	54.0	11.50	84.3	91.9	10.00	45.0	5.50	5.25	2.275	0.625	2.625	5.00	3.5	6550

Certification: Customer _____ P.O. _____ S.O. _____ Item _____

HP _____ RPM _____ Frame _____ PH/HZ/Volts 3/_____/_____ Terminal Box Size CI2☐ CI3☐ FS1.5☐

By _____ Date _____

Comments _____

Not for construction, installation or application purposes unless certified.

CZ_509-11-13_2PL_SLV_ROT
A5E31884773A REV AA
03/08/13