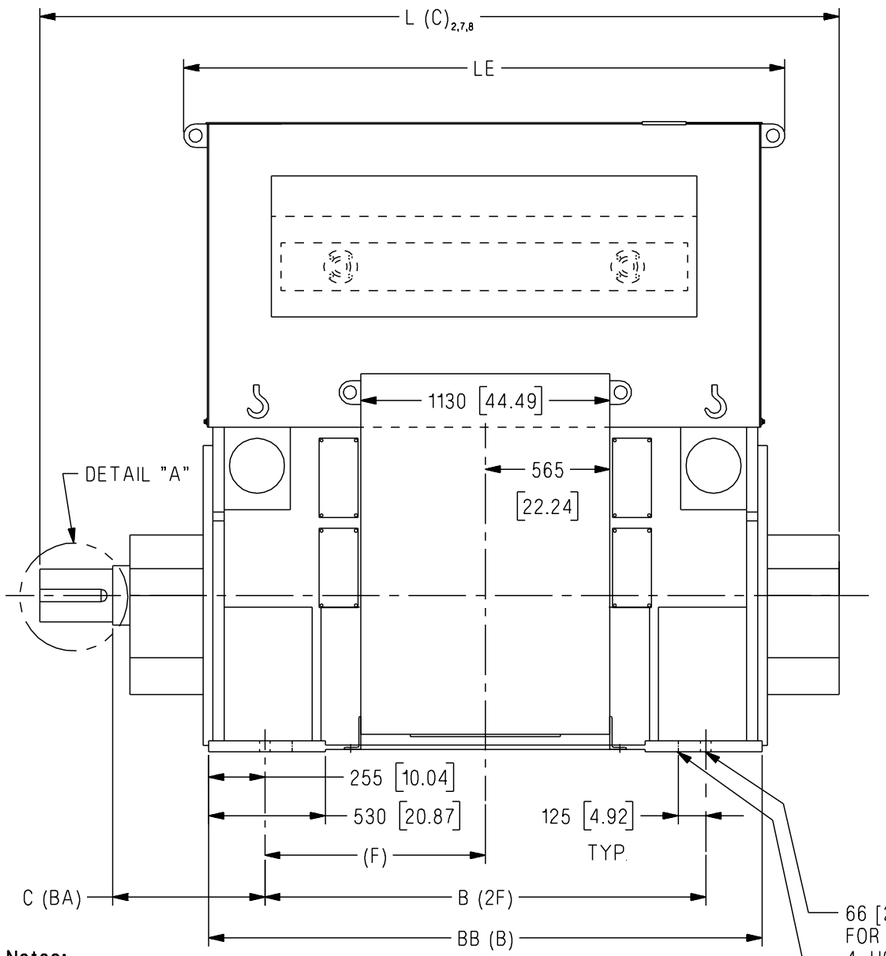
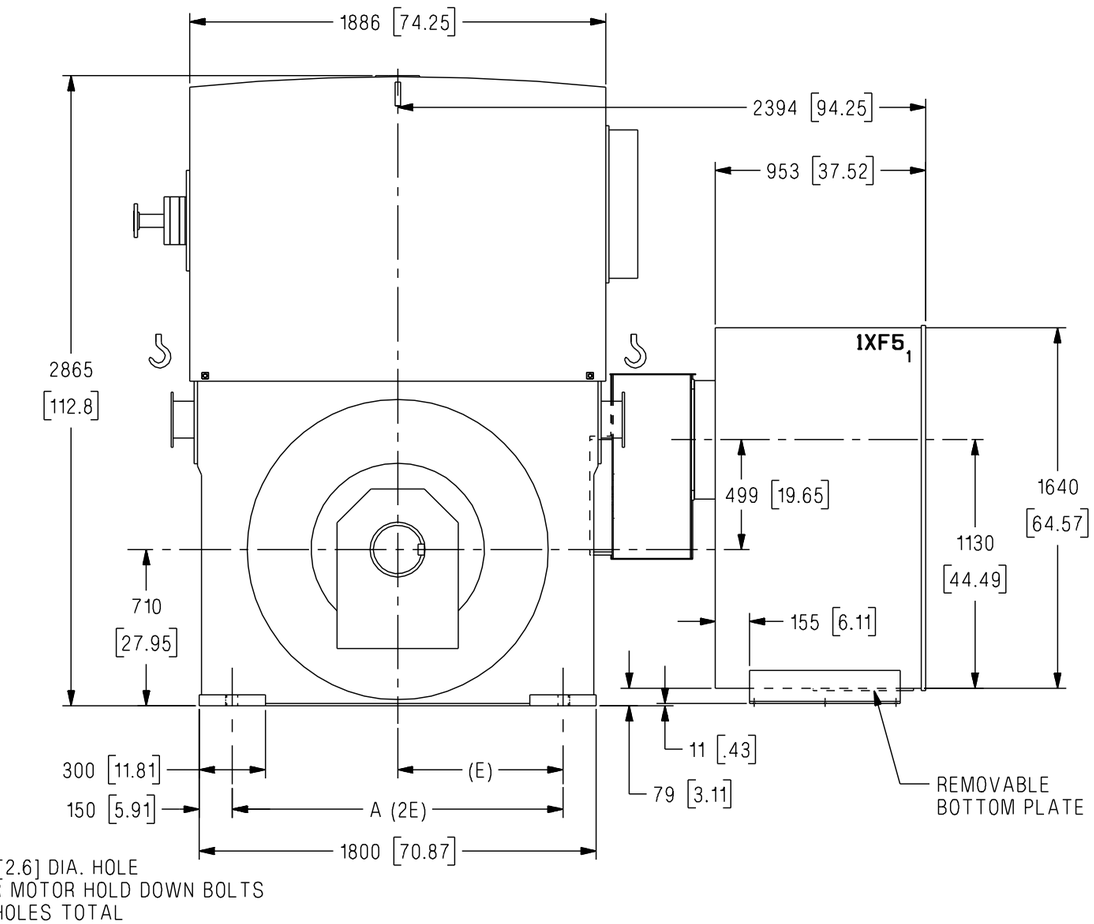
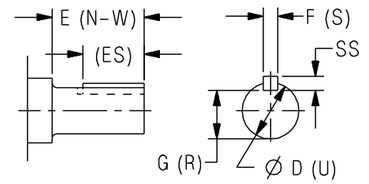
SIEMENS

Dimension Prints for Above NEMA Motors

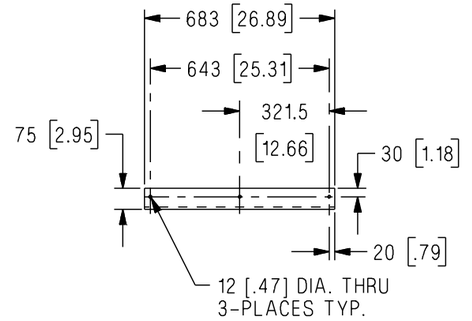
Type 1RN6 – Horizontal – TEWAC / Totally Enclosed Water to Air Cooled
Sleeve Bearing – Direct Connected
Frames SH710 / SH712 / SH714 / SH716 – 2 & 4 Pole – Free Standing Main Conduit Box







DETAIL "A"



BOX FEET DIMENSIONS

Shaft Dimensions in Millimeters [Inches]	
SHAFT DIA	TOLERANCE
180 [7.09]	+0.033 +0.015 [+0.0013 +0.0006]
220 [8.66]	+0.037 +0.017 [+0.0015 +0.0007]

Lubrication Per Bearing	
2 Pole	4 Pole
90–110 SUS @ 100°F	140–160 SUS @ 100°F
10L [10.57 qt.] capacity	10L [10.57 qt.] capacity

Notes:

1. The conduit box is free standing and must be supported from below by the customer. A removable bottom plate is supplied on the conduit box.
2. L (C) = Length of motor from drive end of shaft to end of non-drive end of motor.
3. V = (N-W)-6 mm [0.23 in.] = length of shaft available for coupling.
4. Machines operate in one direction only.
5. Shims may be necessary under motor feet for direct connection.
6. The standard shaft seal is a rotating labyrinth seal rated at IP55.
7. The dimensions are valid with or without shaft proximity probes. A Keyphasor will increase dimension L (C) by approximately 60 mm [2.36 in.].
8. When adding a ground brush, consult the factory as C (BA) and L (C) will increase.
9. Rotor end float = 7 mm [0.28 in.]
10. Standard water cooler inlet and outlet opposite main conduit box.

Standard Dimensions in Millimeters [Inches] / IEC Designations (NEMA Designations in Parentheses)

IEC Designation / NEMA Designation		A (2E)	B (2F)	BB (B)	C_6 ($BA)_6$	$L_{2,7,8}$ $(C)_{2,7,8}$	E (N-W)	– $(V)_3$	G (R)	F (S)	D (U)	– (ES)	SS (Key Height)	LE (Top Cover)	Approx. Ship Wt. kgs [lbs]
SH710/712	2 Pole	1500 [59.06]	2000 [78.74]	2510 [98.82]	600 [23.62]	3373 [132.8]	240 [9.45]	234 [9.21]	165 [6.50]	45 [1.77]	180 [7.09]	197.5 [7.78]	25 [.98]	2726 [107.32]	17,200 [37,920]
SH710/712	4 Pole	1500 [59.06]	2000 [78.74]	2510 [98.82]	530 [20.87]	3247 [127.8]	280 [11.02]	274 [10.78]	203 [7.99]	50 [1.97]	220 [8.66]	230 [9.06]	28 [1.10]	2726 [107.32]	18,800 [41,447]
SH714/716	2 Pole	1500 [59.06]	2240 [88.19]	2750 [108.27]	600 [23.62]	3611 [142.16]	240 [9.45]	234 [9.21]	165 [6.50]	45 [1.77]	180 [7.09]	197.5 [7.78]	25 [.98]	2966 [116.77]	19,100 [42,108]
SH714/716	4 Pole	1500 [59.06]	2240 [88.19]	2750 [108.27]	530 [20.87]	3485 [137.20]	280 [11.02]	274 [10.78]	203 [7.99]	50 [1.97]	220 [8.66]	230 [9.06]	28 [1.10]	2966 [116.77]	20,900 [46,077]

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

HP _____ RPM _____ Frame _____ PH/HZ/Volts 3/_____/_____ Terminal Box Size: 1XF5 ☑

Customer Tag # _____ By _____ Date _____

Comments _____

Not for construction, installation or application purposes unless certified.

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TEWAC_1RN6_710_2-4PL_SLV_FS
REV AB
2013-01-14