



- Notes:
1. Main conduit box is free standing and must be supported from below by customer.  
Main conduit box is not level with motor feet.  
A removable bottom plate is supplied on the FS2 and FS3 conduit boxes.  
A 10.75" spacer is supplied on the 5812 frame for the FS2 conduit box.  
A 21.0" spacer is supplied on the 5812 frame for the FS3 conduit box.
  2. C = Length of motor from drive end of shaft to end of non-drive end of motor.
  3. V = (N-W)-0.25" = length of shaft available for coupling. Note: When adding a rotating labyrinth seal, (N-W) will change so V will change accordingly.
  4. Machines may rotate in either direction.
  5. Shims may be necessary under motor feet for direct connection.
  6. Short shaft or long shaft is for direct connection only.
  7. Adding a rotating labyrinth seal to the drive end increases BA and decreases (N-W) by:  
4 Pole: 0.28" Long Shaft 4 Pole: 0.28"
  8. Adding a ground brush increases BA and C by:  
4 Pole: 2.50" Long Shaft 4 Pole: 2.50"
  9. Adding a ground brush with rotating labyrinth seal increases BA and C by:  
4 Pole: 2.75" Long Shaft 4 Pole: 2.75"
  10. 2 Pole Machine limited to maximum of 1750 HP.

Standard Dimensions in Inches

Shaft	Frame	Speed	B	BA <sub>7,8,9</sub>	C <sub>2,8,9</sub>	E	2F	N	(N-W) <sub>7</sub>	R	S	U	V <sub>3</sub>	ES	Approx. Ship Wt. (Lbs)
Short <sub>10</sub>	5812S	2 Pole	60.0	10.00	72.0	11.50	45.0	7.00	6.75	2.450	0.750	2.875	6.50	5.0	8400
Short	5812S	4 Pole	60.0	10.00	73.2	11.50	45.0	8.25	8.00	3.436	1.000	4.000	7.75	6.0	8400
Long	5812	4 Pole	60.0	10.00	79.8	11.50	45.0	14.90	14.62	4.169	1.250	4.875	14.38	13.0	8400

**Certification:** Customer \_\_\_\_\_ P.O. \_\_\_\_\_ S.O. \_\_\_\_\_ Item \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_ Frame \_\_\_\_\_ PH/HZ/Volts 3/\_\_\_\_\_/\_\_\_\_\_  
 By \_\_\_\_\_ Date \_\_\_\_\_ Terminal Box Size FS2  FS3   
 Comments \_\_\_\_\_  
 Not for construction, installation or application purposes unless certified.