



**Electrical Helper.org**  
For All Your Electric Needs Since 1928  
411 N Platte Ave. York, NE. 68467

AC-DC MOTORS :: SALES & SERVICE  
REWINDING :: CUSTOM CONTROL PANEL

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# DATA SHEET

Premium Efficiency Motor: **SSPE34-12-56C,**

60 Hz

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## MOTOR INFORMATION

|                         |                                |
|-------------------------|--------------------------------|
| HP                      | 3/4                            |
| RPM                     | 1200                           |
| Phase                   | 3                              |
| Frequency               | 60                             |
| Voltage                 | 230/460                        |
| Frame Size              | 56C                            |
| Enclosure               | TEFC                           |
| Degree of Protection    | IP69K                          |
| Service Factor          | 1.15                           |
| Poles                   | 6                              |
| Full Load               | 1155                           |
| Speed                   | F                              |
| Temperature Class       | 80°C                           |
| NEMA Code Letter        | P                              |
| Duty Cycle              | S1                             |
| Slip                    | 3.75%                          |
| NEMA Design             | B                              |
| Moment of Inertia       | 0.103 lb.ft.^2                 |
| Locked Rotor Time       | 12 seconds                     |
| (Hot) Sound Pressure    | 55 dB(A)                       |
| Number of Starts        | 12                             |
| Max Ambient Temperature | 40° C                          |
| Max Elevation           | 1000 m.a.s.l (3300 f.a.s.l)    |
| Mounting                | F1                             |
| Rotation                | Bidirectional                  |
| Area of Classification  | Div.2 Class I, Gr. A,B,C&D T2B |
| Inverter Rating         | 10:1 CT/20:1 VT                |
| Standard                | NEMA MG1,                      |
| Approvals               | UL1004 CSA,UL,CE               |

## EFFICIENCY/POWER

| FACTOR LOAD | EFF     | P. F. |
|-------------|---------|-------|
| 100%        | 81.5    |       |
| %           | 0.6575% | 0.5   |
| 50%         | 8       |       |
|             | 71.0 %  | 0.5   |

## TORQUE

| FULL LOAD  | LRT   | BD    |
|------------|-------|-------|
| 7.3 lb.ft. | 255 % | 280 % |

## AMPERAGE INFORMATION

|                        |      |     |
|------------------------|------|-----|
|                        | 230V | 460 |
| Full Load Amps         | V    |     |
| Locked Rotor           | 3.7  | 1.8 |
| Amps No Load           | 5    |     |
| Current Usable at 208V | 2.5  | 1.2 |
|                        | 5    |     |
|                        | 1.7  | 0.8 |

## BEARING INFORMATION

|             |               |
|-------------|---------------|
| DE Bearing  | 6205 2RS      |
| ODE Bearing | 6205 2RS      |
| Grease Type | Mobil Polyrex |
|             | EM            |

## ADDITIONAL DATA

|                    |                     |
|--------------------|---------------------|
| F2 Suitable        | No                  |
| Shaft Material     | 304 Stainless Steel |
| Connection Diagram | 9 Lead 2Y/Y         |
| Approximate Weight | 35 lbs.             |



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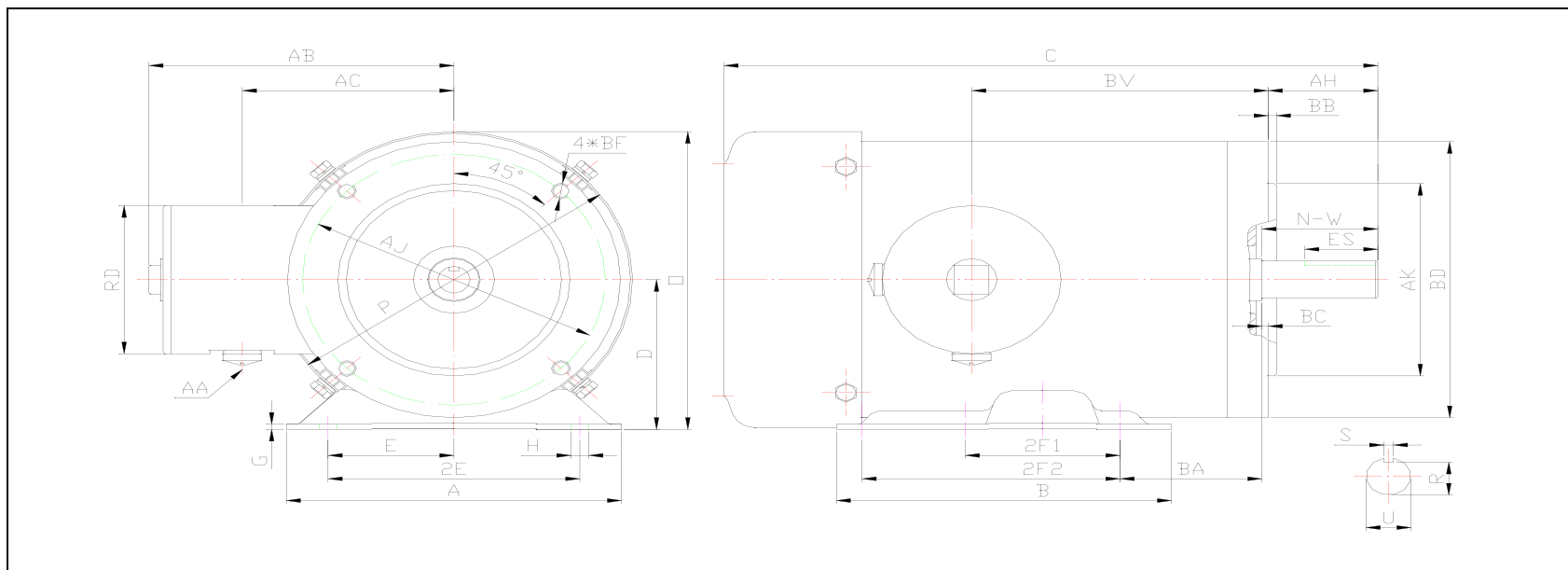
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# MOTOR DRAWING

Premium Efficiency Motor: **SSPE34-12-56C**



## DIMENSION - INCHES

| MOUNTING |     |     |           |      | A   | B | C     | D   | G     | P    | O    | T   | AB   |
|----------|-----|-----|-----------|------|-----|---|-------|-----|-------|------|------|-----|------|
| E        | 2F1 | 2F2 | H         | BA   |     |   |       |     |       |      |      |     |      |
| 2.44     | 3   | N/A | 1.22*0.34 | 2.75 | 6.5 | 5 | 12.57 | 3.5 | 0.118 | 6.95 | 6.98 | N/A | 5.95 |

| SHAFT & KEY |      |       |      |       |      |
|-------------|------|-------|------|-------|------|
| S           | ES   | R     | N-W  | U     | AH   |
| 0.188       | 1.41 | 0.517 | 1.88 | 0.625 | 2.06 |

| TERMINAL BOX |      |     |      |      |
|--------------|------|-----|------|------|
| AA           | AB   | AC  | RD   | BV   |
| 1/2 NPT      | 5.95 | 4.5 | 3.45 | 5.75 |

| FLANGE |      |       |          |      |       |
|--------|------|-------|----------|------|-------|
| AK     | BD   | AJ    | BF       | BB   | BC    |
| 4.5    | 6.45 | 5.875 | 4*3/8-16 | 0.16 | -0.19 |



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# PERFORMANCE CURVES

Premium Efficiency Motor:

**SSPE34-12-56C**

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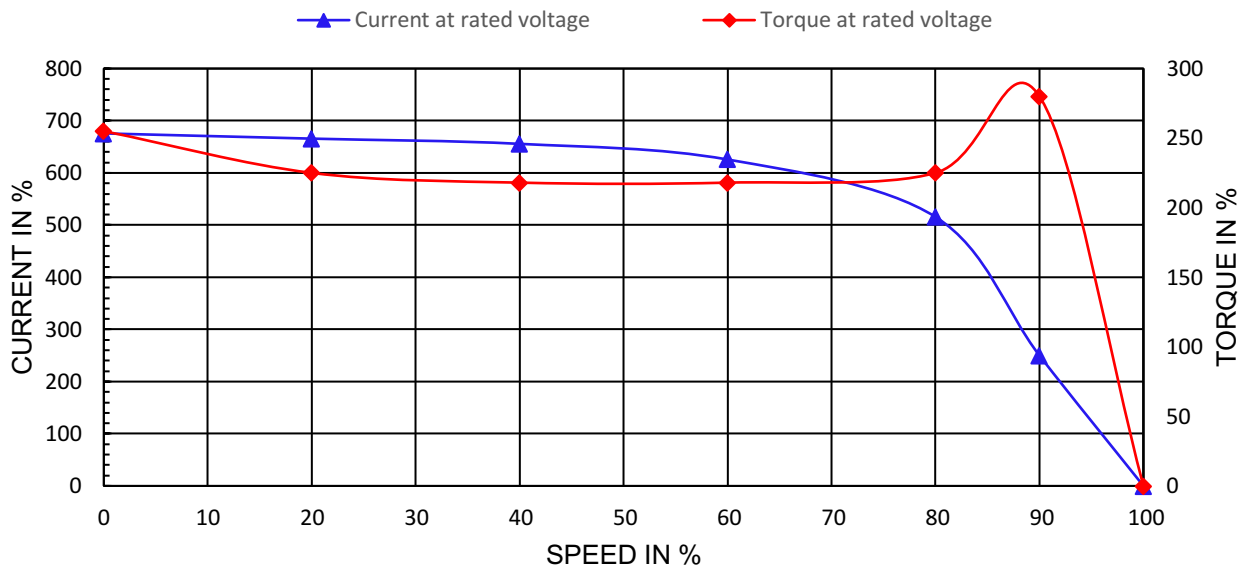
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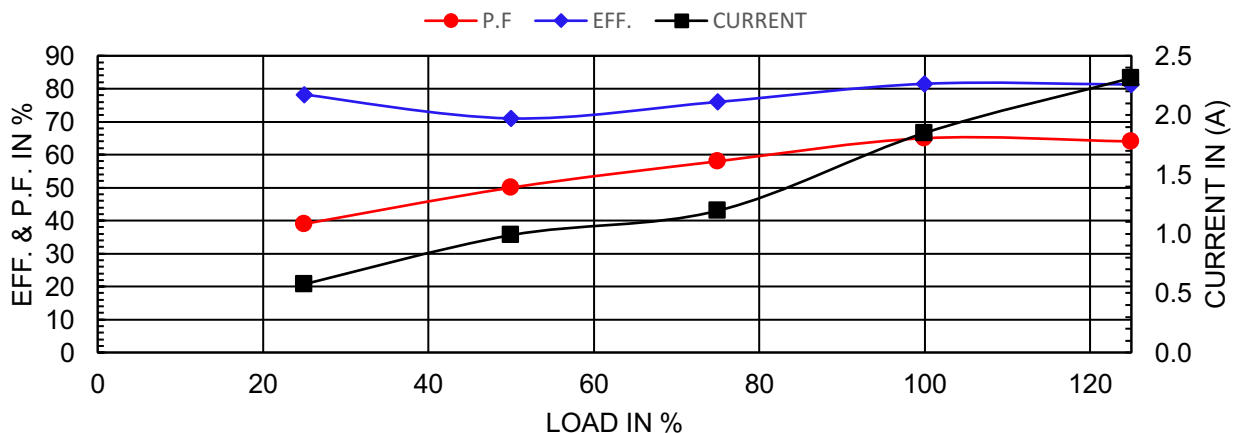
|                |       |         |            |      |                   |
|----------------|-------|---------|------------|------|-------------------|
| Motor Type     | SSPE  |         | FL Speed   | 1155 |                   |
| Output Rating  | 3/4   |         | LRT (%FLT) | 255  | 460 volt FLA 1.85 |
| (HP) Full Load | 3.3   | lb.ft   | BDT (%FLT) | 280  | 230 volt FLA 3.7  |
| Torque Rotor   | 0.103 | lb-ft^2 |            |      |                   |

Wk^2

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE





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# NAMEPLATE / WIRING

Premium Efficiency Motor: **SSPE34-12-56C**

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## SAMPLE NAMEPLATE DATA

|               |             |                                       |             |             |           |                |  |
|---------------|-------------|---------------------------------------|-------------|-------------|-----------|----------------|--|
|               |             | <b>THREE PHASE AC INDUCTION MOTOR</b> |             |             |           | <b>NEMA®</b>   |  |
|               |             | <b>INVERTER DUTY 20:1 VT 10:1 CT</b>  |             |             |           | <b>Premium</b> |  |
| Model .       |             | FRAME                                 |             | IP 69K      | LB/WT     |                |  |
| Hz 60         | S. F. 1. 15 | Hz 50                                 | S. F. 1. 15 | ENCL. TEFC  | AMB. 40°C |                |  |
| HP            | RPM         | HP                                    | RPM         | DUTY CONT   | INS. F    |                |  |
| VOLTS 230/460 |             | VOLTS 190/380                         |             | NEMA DES. B |           |                |  |
| AMP           |             | AMP                                   |             | BRG DE      |           |                |  |
| CODE          | P. F.       | CODE                                  | P. F.       | BRG ODE     |           |                |  |
| EFF MIN       |             | IE3 -                                 |             | NO.         |           |                |  |
|               |             |                                       |             |             |           |                |  |

|              |               |          |      |       |     |         |         |
|--------------|---------------|----------|------|-------|-----|---------|---------|
| Model        | SSPE34-12-56C |          |      | FRAME | 56C | LB/WT   | 35 lbs. |
| Hz           | 60            | S.F.     | 1.15 | Hz    | 50  | S.F.    | 1.15    |
| HP           | 3/4           | RPM      | 1155 | HP    | 1/2 | RPM     | 960     |
| VOLTS        |               | 230/460  |      | VOLTS |     | 190/380 |         |
| AMPS         |               | 3.7/1.85 |      | AMPS  |     | 2.8/1.4 |         |
| CODE         | P             | P.F.     | 0.65 | CODE  | N   | P.F.    | 0.53    |
| EFF          | 81.5%         | MIN      | 71%  |       |     |         |         |
| 73.5% BRG DE |               | 6205     |      |       |     |         |         |
| 2RS BRG      |               |          |      |       |     |         |         |
| ODE          |               | 6205 2RS |      |       |     |         |         |