



# DATA SHEET

Premium Efficiency Motor: **SSPE1-18-56C,****60 Hz**Document Generated: 22-Feb-2023  
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Customer:

**MOTOR INFORMATION**

|                         |                                |
|-------------------------|--------------------------------|
| HP                      | 1                              |
| RPM                     | 1800                           |
| Phase                   | 3                              |
| Frequency               | 60                             |
| Voltage                 | 230/460                        |
| Frame Size              | 56C                            |
| Enclosure               | TEFC                           |
| Degree of Protection    | IP69K                          |
| Service Factor          | 1.15                           |
| Poles                   | 4                              |
| Full Load               | 1750                           |
| Speed                   | F                              |
| Temperature Class       | 80°C                           |
| NEMA Code Letter        | N                              |
| Duty Cycle              | S1                             |
| Slip                    | 2.78%                          |
| NEMA Design             | B                              |
| Moment of Inertia       | 0.1 lb.ft.^2                   |
| Locked Rotor Time       | 12 seconds                     |
| (Hot) Sound Pressure    | 61 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%   | 85.5     |       |
| %      | 0.7575%  | 0.6   |
| 50%    | 74.0 %   | 0.4   |

**TORQUE**

| FULL LOAD | LRT   | BD    |
|-----------|-------|-------|
| 7 lb.ft.  | 285 % | 300 % |

**AMPERAGE INFORMATION**

|                        | 230V | 460    |
|------------------------|------|--------|
| Full Load Amps         | V    |        |
| Locked Rotor           | 2.8  | 1.4    |
| Amps No Load           | 30   | 15     |
| Current Usable at 208V | 2.5  | 3 1.25 |

**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 | 36 lbs.             |



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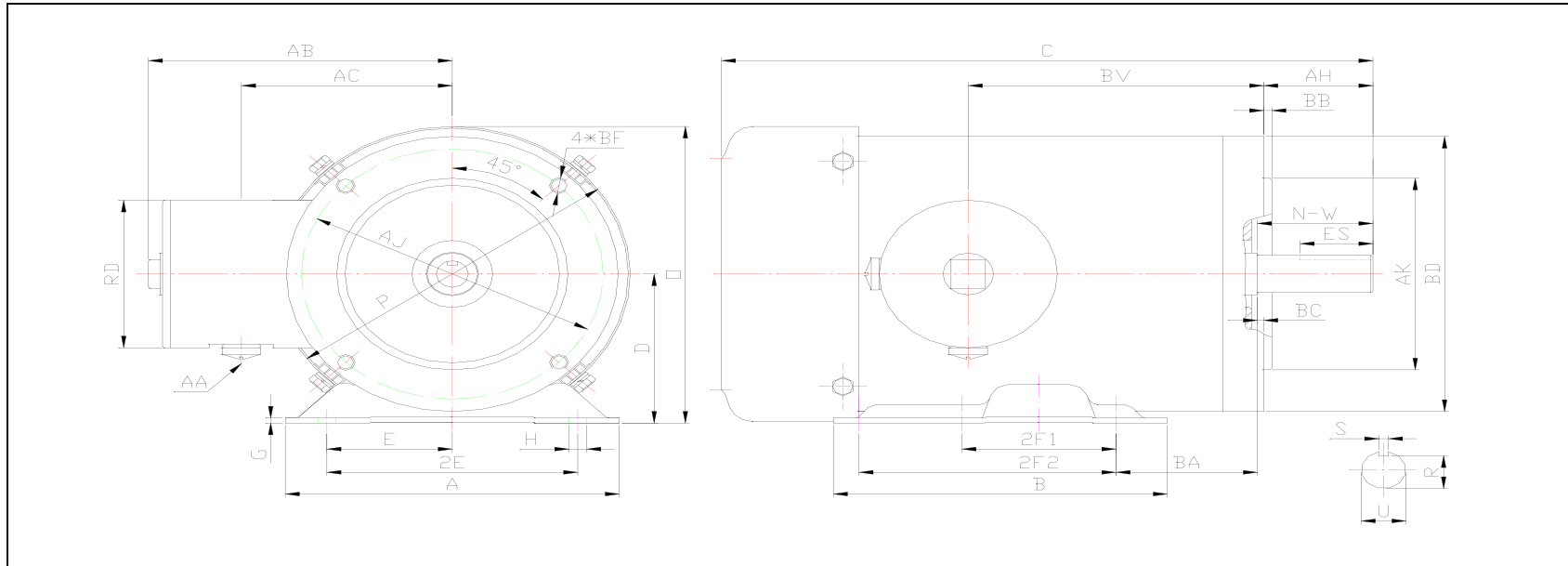
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# MOTOR DRAWING

Premium Efficiency Motor: **SSPE1-18-56C**



## DIMENSION - INCHES

| MOUNTING |     |     |           |      | A   | B   | C     | D   | G     | P    | O    | T   | AB   |
|----------|-----|-----|-----------|------|-----|-----|-------|-----|-------|------|------|-----|------|
| E        | 2F1 | 2F2 | H         | BA   |     |     |       |     |       |      |      |     |      |
| 2.44     | 3   | 5   | 1.22*0.34 | 2.75 | 6.5 | 6.5 | 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:

**SSPE1-18-56C**

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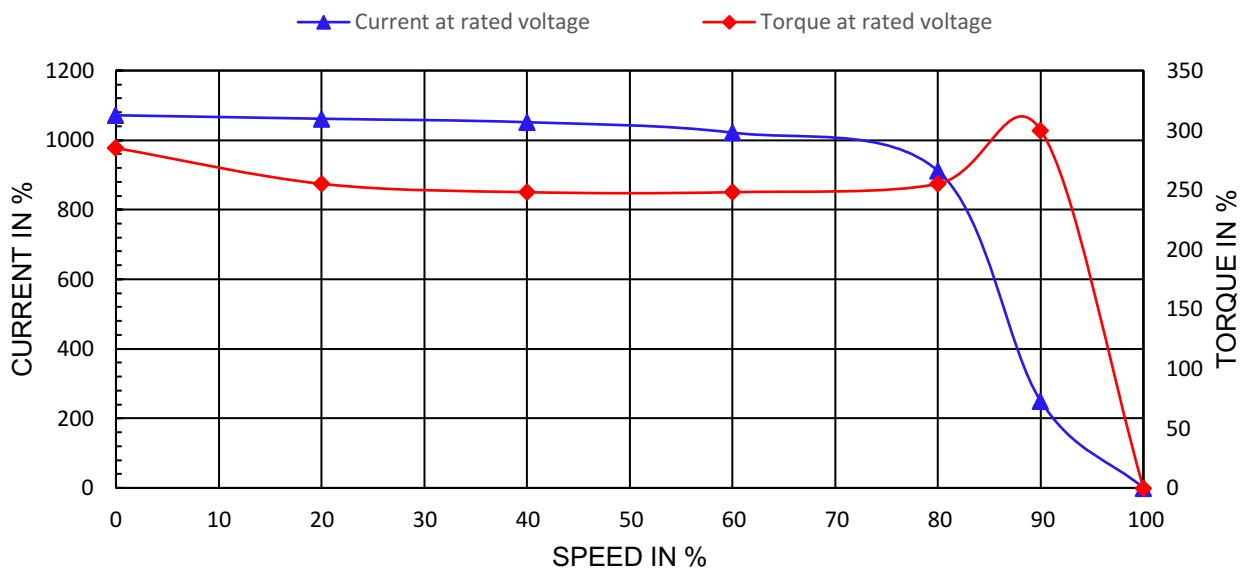
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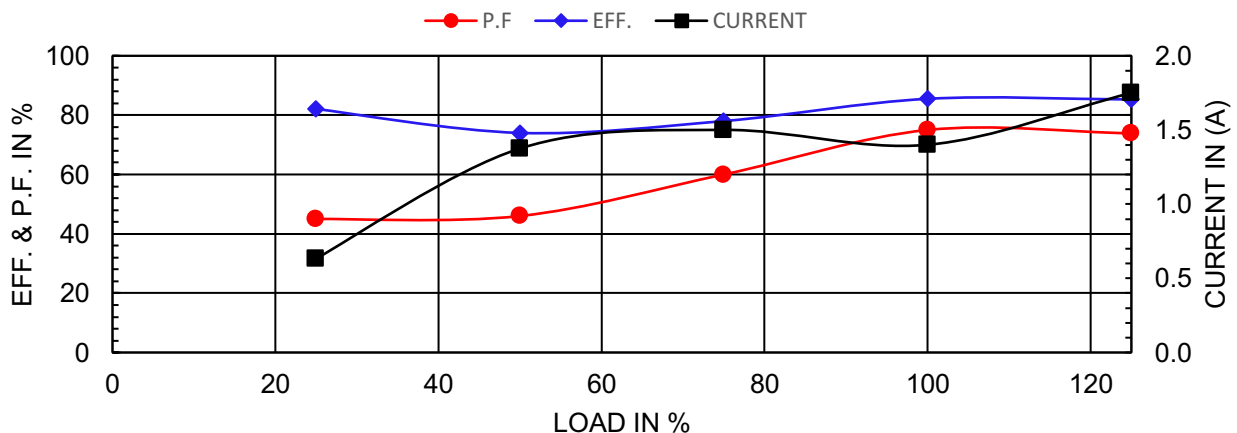
|                |      |         |            |      |                  |
|----------------|------|---------|------------|------|------------------|
| Motor Type     | SSPE |         | FL Speed   | 1750 |                  |
| Output Rating  | 1    |         | LRT (%FLT) | 285  | 460 volt FLA 1.4 |
| (HP) Full Load | 3    | lb.ft   | BDT (%FLT) | 300  | 230 volt FLA 2.8 |
| Torque Rotor   | 0.1  | 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: **SSPE1-18-56C**

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## SAMPLE NAMEPLATE DATA

| Model .       |             | FRAME         |             | IP 69K      | LB/WT      | 230V |    |    |
|---------------|-------------|---------------|-------------|-------------|------------|------|----|----|
| Hz 60         | S. F. 1. 15 | Hz 50         | S. F. 1. 15 | ENCL. TEFC  | AMB. 40 °C | T4   | T5 | T6 |
| HP            | RPM         | HP            | RPM         | DUTY CONT   | INS. F     | T7   | T8 | T9 |
| VOLTS 230/460 |             | VOLTS 190/380 |             | NEMA DES. B |            | T1   | T2 | T3 |
| AMP           |             | AMP           |             | BRG DE      |            | L1   | L2 | L3 |
| CODE          | P. F.       | CODE          | P. F.       | BRG ODE     |            | 460V |    |    |
| EFF           | MIN         | IE3 -         |             | NO.         |            | T4   | T5 | T6 |
|               |             |               |             |             |            | T7   | T8 | T9 |
|               |             |               |             |             |            | T1   | T2 | T3 |
|               |             |               |             |             |            | L1   | L2 | L3 |

CC082A

|                   |              |          |      |       |     |         |         |
|-------------------|--------------|----------|------|-------|-----|---------|---------|
| Model             | SSPE1-18-56C |          |      | FRAME | 56C | LB/WT   | 36 lbs. |
| Hz                | 60           | S.F.     | 1.15 | Hz    | 50  | S.F.    | 1.15    |
| HP                | 1            | RPM      | 1750 | HP    | 3/4 | RPM     | 1460    |
| VOLTS             |              | 230/460  |      | VOLTS |     | 190/380 |         |
| AMPS              |              | 2.8/1.4  |      | AMPS  |     | 3/1.5   |         |
| CODE              | N            | P.F.     | 0.75 | CODE  | N   | P.F.    | 0.68    |
| EFF               | 85.5%        | MIN      | 74%  | IE3 - |     |         |         |
| 80.8% BRG DE 6205 |              |          |      |       |     |         |         |
| 2RS BRG           |              |          |      |       |     |         |         |
| ODE               |              | 6205 2RS |      |       |     |         |         |