

**Electrical Helper.org**For All Your Electric Needs Since 1928  
411 N Platte Ave. York, NE. 68467AC-DC MOTORS :: SALES & SERVICE  
REWINDING :: CUSTOM CONTROL PANELKelly MacMillan  
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ELECTRIC CORPORATION

# DATA SHEET

Premium Efficiency Motor: **SSPE1-36-56CRD,****60 Hz**Document Generated: 22-Feb-2023  
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Customer:

## MOTOR INFORMATION

|                         |                                |
|-------------------------|--------------------------------|
| HP                      | 1                              |
| RPM                     | 3600                           |
| Phase                   | 3                              |
| Frequency               | 60                             |
| Voltage                 | 230/460                        |
| Frame Size              | 56C                            |
| Enclosure               | TEFC                           |
| Degree of Protection    | IP69K                          |
| Service Factor          | 1.15                           |
| Poles                   | 2                              |
| Full Load               | 3470                           |
| Speed                   | F                              |
| Temperature Class       | 80°C                           |
| NEMA Code Letter        | N                              |
| Duty Cycle              | S1                             |
| Slip                    | 3.61%                          |
| NEMA Design             | B                              |
| Moment of Inertia       | 0.054 lb.ft.^2                 |
| Locked Rotor Time       | 12 seconds                     |
| (Hot) Sound Pressure    | 76 dB(A)                       |
| Number of Starts        | 10                             |
| 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%   | 80.0     |       |
| %      | 0.9750 % | 0.8   |
| 50%    | 6        |       |
|        | 74.0 %   | 0.7   |
|        | 8        |       |

## TORQUE

| FULL LOAD  | LRT   | BD    |
|------------|-------|-------|
| 1.5 lb.ft. | 285 % | 300 % |

## AMPERAGE INFORMATION

|                        | 230V    | 460 |
|------------------------|---------|-----|
| Full Load Amps         | V       |     |
| Locked Rotor           | 2.8     | 1.  |
| Amps No Load           | 4       |     |
| Current Usable at 208V | 30 3 15 |     |
|                        | 1.4     | 0.  |

## BEARING INFORMATION

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

## ADDITIONAL DATA

|                    |                     |
|--------------------|---------------------|
| F2 Suitable        | No                  |
| Shaft Material     | 304 Stainless Steel |
| Connection Diagram | 9 Lead 2Y/Y         |
| Approximate Weight | 34 lbs.             |



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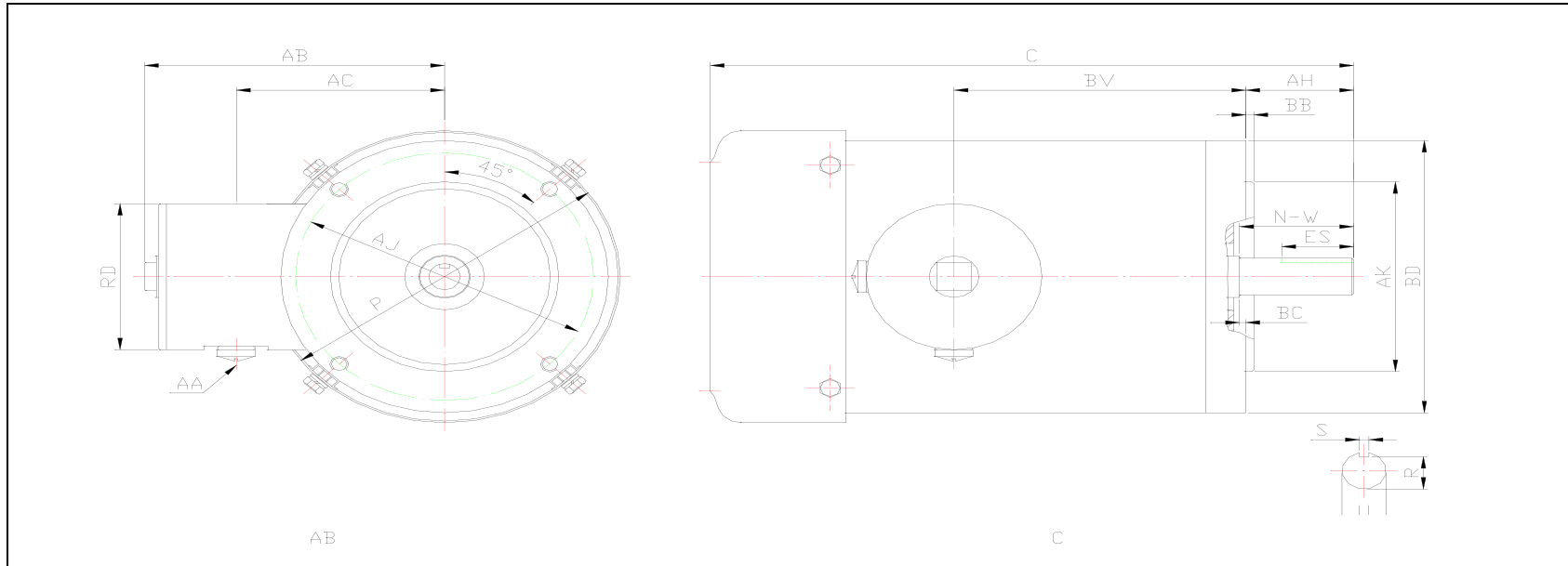
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# MOTOR DRAWING

Premium Efficiency Motor: **SSPE1-36-56CRD**



## DIMENSION - INCHES

| FLANGE MOUNTING |      |       |          |      |       | C     | P    | T   | AB   |
|-----------------|------|-------|----------|------|-------|-------|------|-----|------|
| AK              | BD   | AJ    | BF       | BB   | BC    |       |      |     |      |
| 4.5             | 6.45 | 5.875 | 4*3/8-16 | 0.16 | -0.19 | 12.57 | 6.95 | 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 | 4.75 |



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# PERFORMANCE CURVES

Premium Efficiency Motor:

**SSPE1-36-56CRD**

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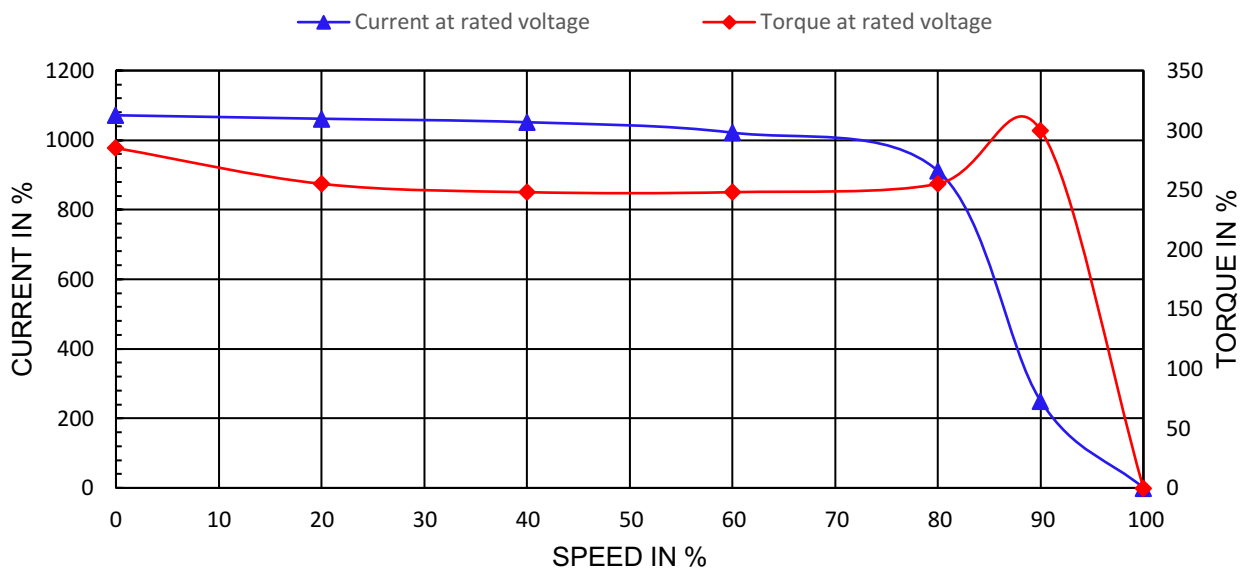
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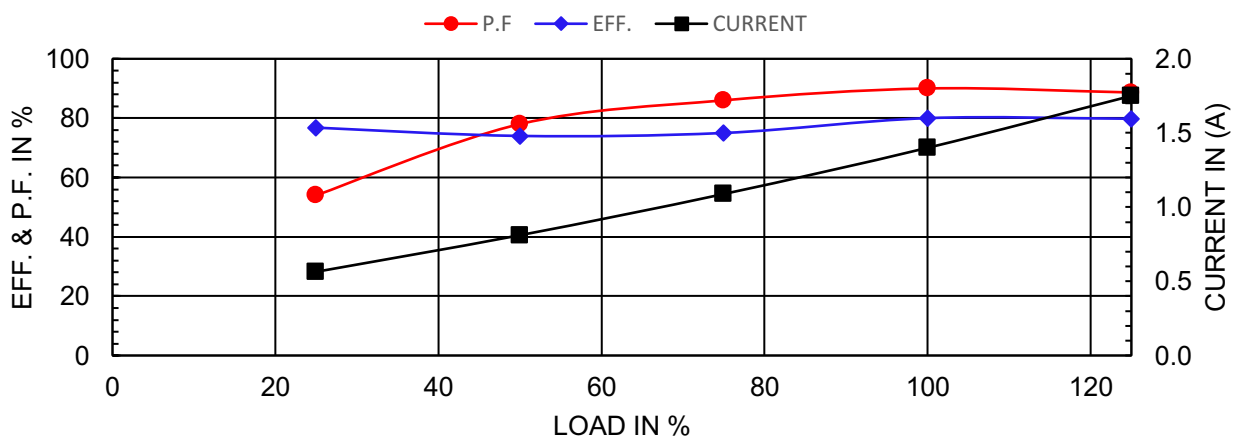
|                |       |         |            |      |                  |
|----------------|-------|---------|------------|------|------------------|
| Motor Type     | SSPE  |         | FL Speed   | 3470 |                  |
| Output Rating  | 1     |         | LRT (%FLT) | 285  | 460 volt FLA 1.4 |
| (HP) Full Load | 1.5   | lb.ft   | BDT (%FLT) | 300  | 230 volt FLA 2.8 |
| Torque Rotor   | 0.054 | 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:

**SSPE1-36-56CRD**

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## SAMPLE NAMEPLATE DATA

|               |            |                                       |            |             |           |                      |  |
|---------------|------------|---------------------------------------|------------|-------------|-----------|----------------------|--|
|               |            | <b>THREE PHASE AC INDUCTION MOTOR</b> |            |             |           | <b>NEMA® Premium</b> |  |
|               |            | <b>INVERTER DUTY 20:1 VT 10:1 CT</b>  |            |             |           |                      |  |
| Model .       |            | FRAME                                 |            | IP 69K      | LB/WT     | <b>230V</b><br>      |  |
| 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 |           | <b>460V</b><br>      |  |
| AMP           |            | AMP                                   |            | BRG DE      |           |                      |  |
| CODE          | P. F.      | CODE                                  | P. F.      | BRG ODE     |           |                      |  |
| EFF           | MIN        | IE3 -                                 |            | NO.         |           |                      |  |
|               |            |                                       |            |             |           | <b>CC082A</b>        |  |

|         |                |          |      |             |     |         |         |
|---------|----------------|----------|------|-------------|-----|---------|---------|
| Model   | SSPE1-36-56CRD |          |      | FRAME       | 56C | LB/WT   | 34 lbs. |
| Hz      | 60             | S.F.     | 1.15 | Hz          | 50  | S.F.    | 1.15    |
| HP      | 1              | RPM      | 3470 | HP          | 3/4 | RPM     | 2890    |
| VOLTS   |                | 230/460  |      | VOLTS       |     | 190/380 |         |
| AMPS    |                | 2.8/1.4  |      | AMPS        |     | 2.5/1.2 |         |
| CODE    | N              | P.F.     | 0.9  | CODE        | 5 N | P.F.    | 0.85    |
| EFF     | 80%            | MIN      | 74%  | IE3 - 77.8% |     |         |         |
| BRG DE  |                | 6205     |      |             |     |         |         |
| 2RS BRG |                |          |      |             |     |         |         |
| ODE     |                | 6205 2RS |      |             |     |         |         |