

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase Product code : 11385484

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 444/5T        | Locked rotor time           | : 36s (cold) 20s (hot) |
| Output                | : 75 HP (55 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 8             | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz         | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V     | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 186/92.8 A    | Protection degree           | : IP55                 |
| L. R. Amperes         | : 1039/520 A    | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 5.6x(Code F)  | Mounting                    | : F-1                  |
| No load current       | : 72.0/36.0 A   | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 885 rpm       | Noise level <sup>2</sup>    | : 63.0 dB(A)           |
| Slip                  | : 1.67 %        | Starting method             | : Direct On Line       |
| Rated torque          | : 445 ft.lb     | Approx. weight <sup>3</sup> | : 1444 lb              |
| Locked rotor torque   | : 170 %         |                             |                        |
| Breakdown torque      | : 200 %         |                             |                        |
| Insulation class      | : F             |                             |                        |
| Service factor        | : 1.25          |                             |                        |
| Moment of inertia (J) | : 73.6 sq.ft.lb |                             |                        |
| Design                | : B             |                             |                        |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 93.0 | 93.0 | 93.0 | Max. traction    | : 1952 lb |
| Power Factor   | 0.67 | 0.76 | 0.80 | Max. compression | : 3496 lb |

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 7.1          | 5.7          | 5.3           | 3.3          | 2.2          | 1.4           | 1.0            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : NU-319 C3      | 6316 C3       |
| Sealing              | : WSeal          | WSeal         |
| Lubrication interval | : 15000 h        | 20000 h       |
| Lubricant amount     | : 45 g           | 34 g          |
| Lubricant type       | Mobil Polyrex EM |               |

### Notes

USABLE @208V 205A SF 1.00 SFA 205A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev.         | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|------|
|              |                 |           |         |      |
| Performed by |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 16/07/2026      |           |         |      |

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Revision

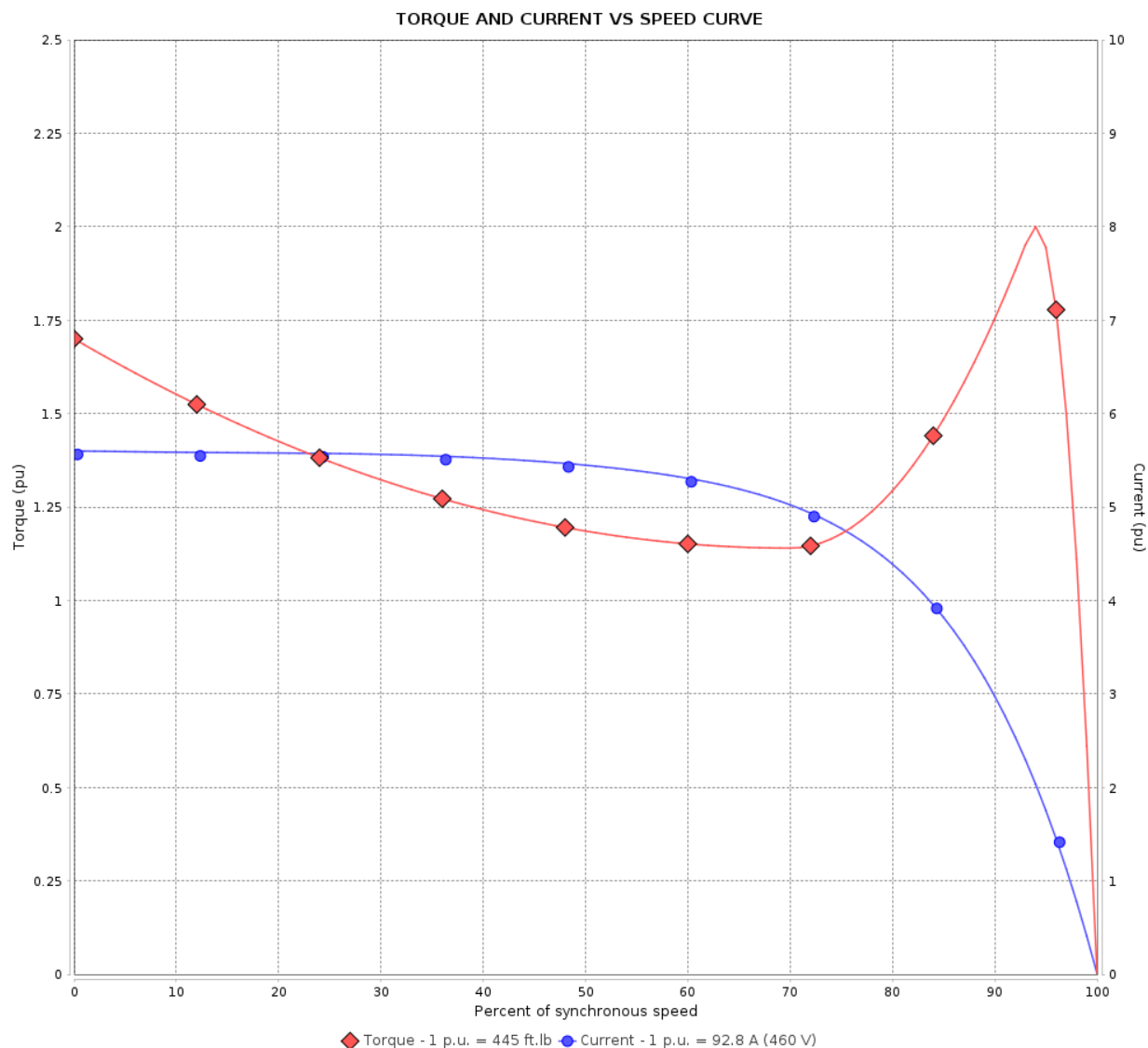
# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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Performance : 230/460 V 60 Hz 8P

Rated current : 186/92.8 A  
LRC : 5.6  
Rated torque : 445 ft.lb  
Locked rotor torque : 170 %  
Breakdown torque : 200 %  
Rated speed : 885 rpm

Moment of inertia (J) : 73.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Locked rotor time : 36s (cold) 20s (hot)

| Rev.         | Changes Summary | Performed           | Checked | Date |
|--------------|-----------------|---------------------|---------|------|
|              |                 |                     |         |      |
| Performed by |                 | Page 2 / 5 Revision |         |      |
| Checked by   |                 |                     |         |      |
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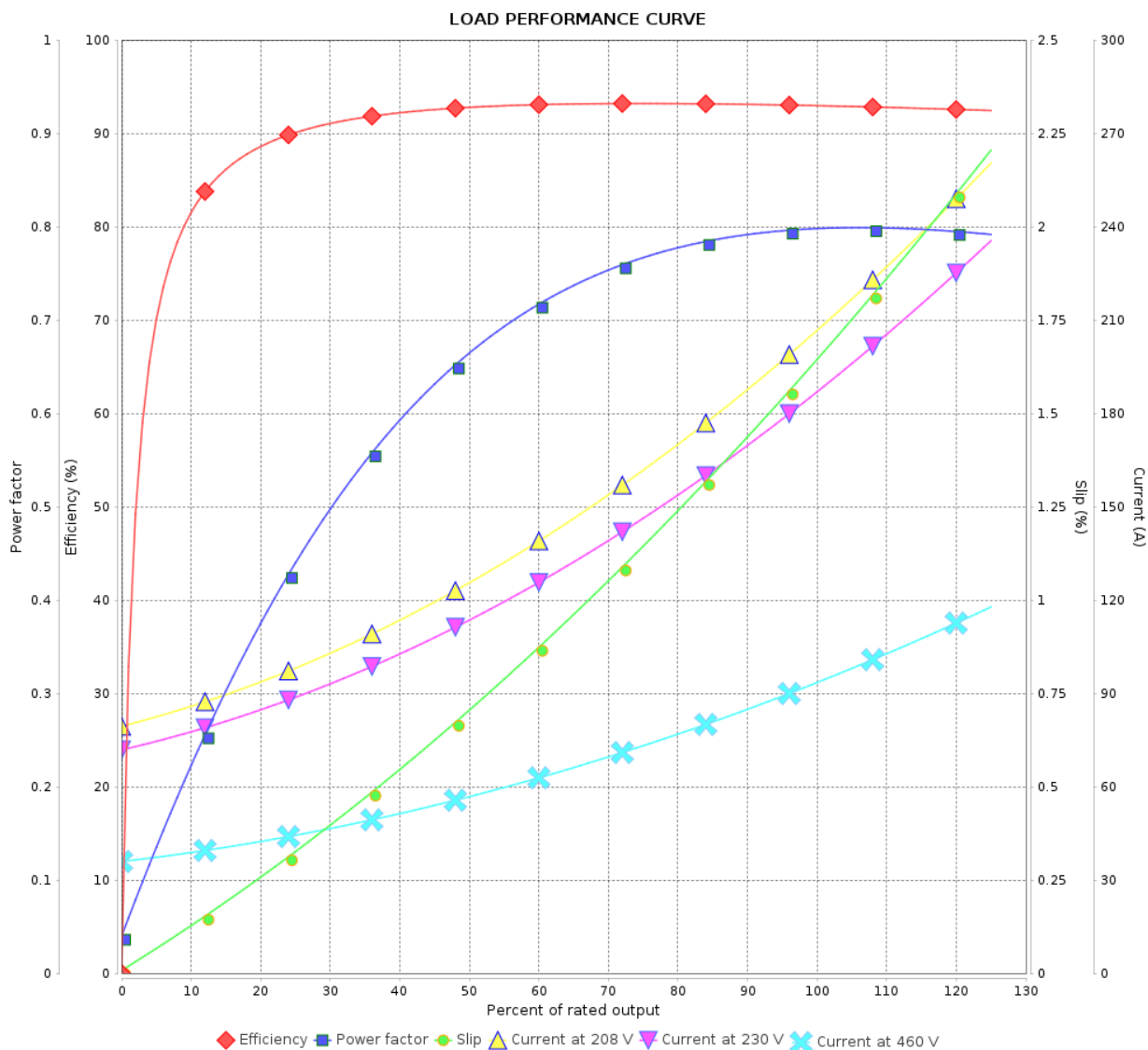
# LOAD PERFORMANCE CURVE

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|              |                 |  |           |               |          |
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| Rev.         | Changes Summary |  | Performed | Checked       | Date     |
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| Checked by   |                 |  |           |               |          |
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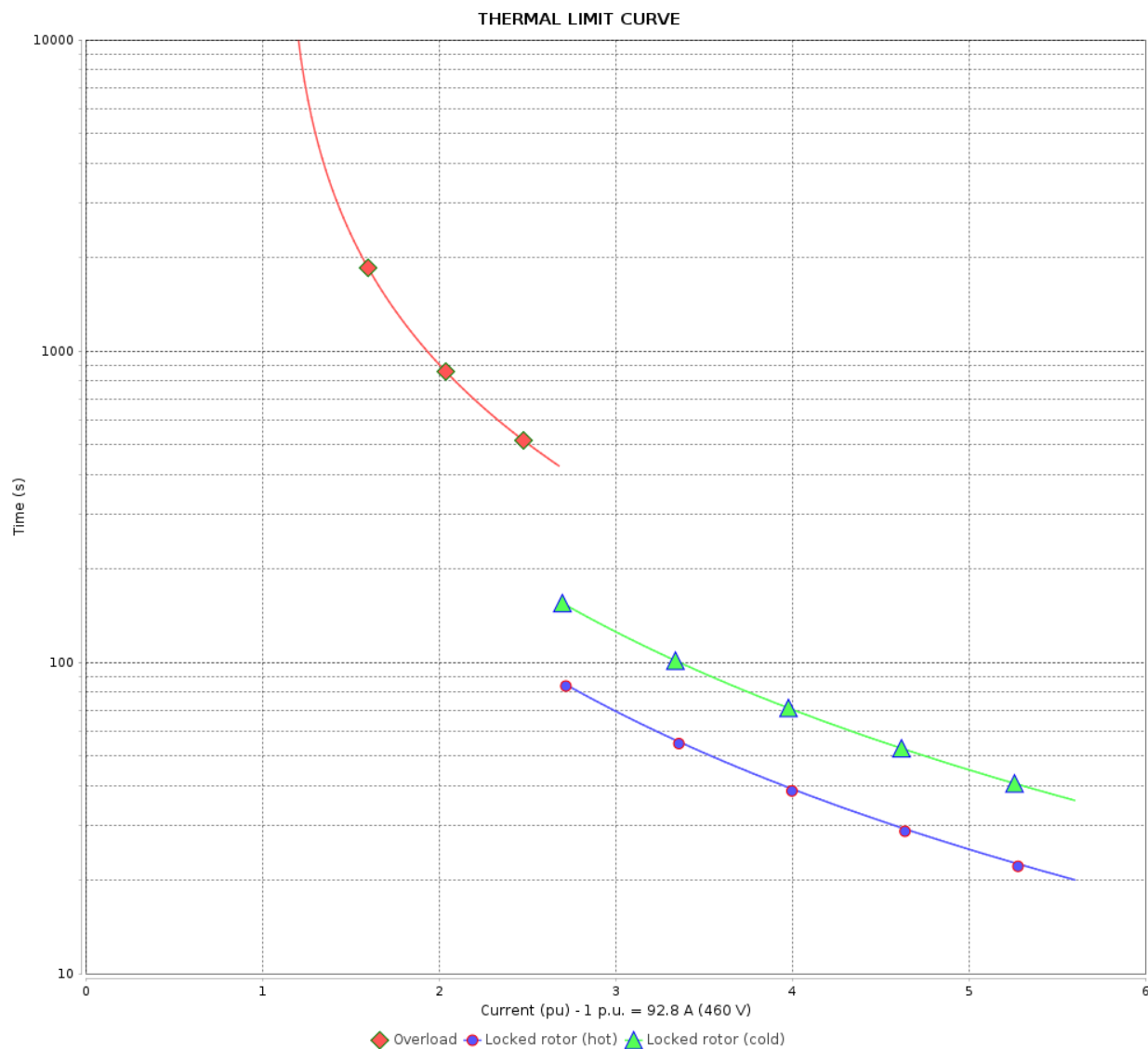
# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

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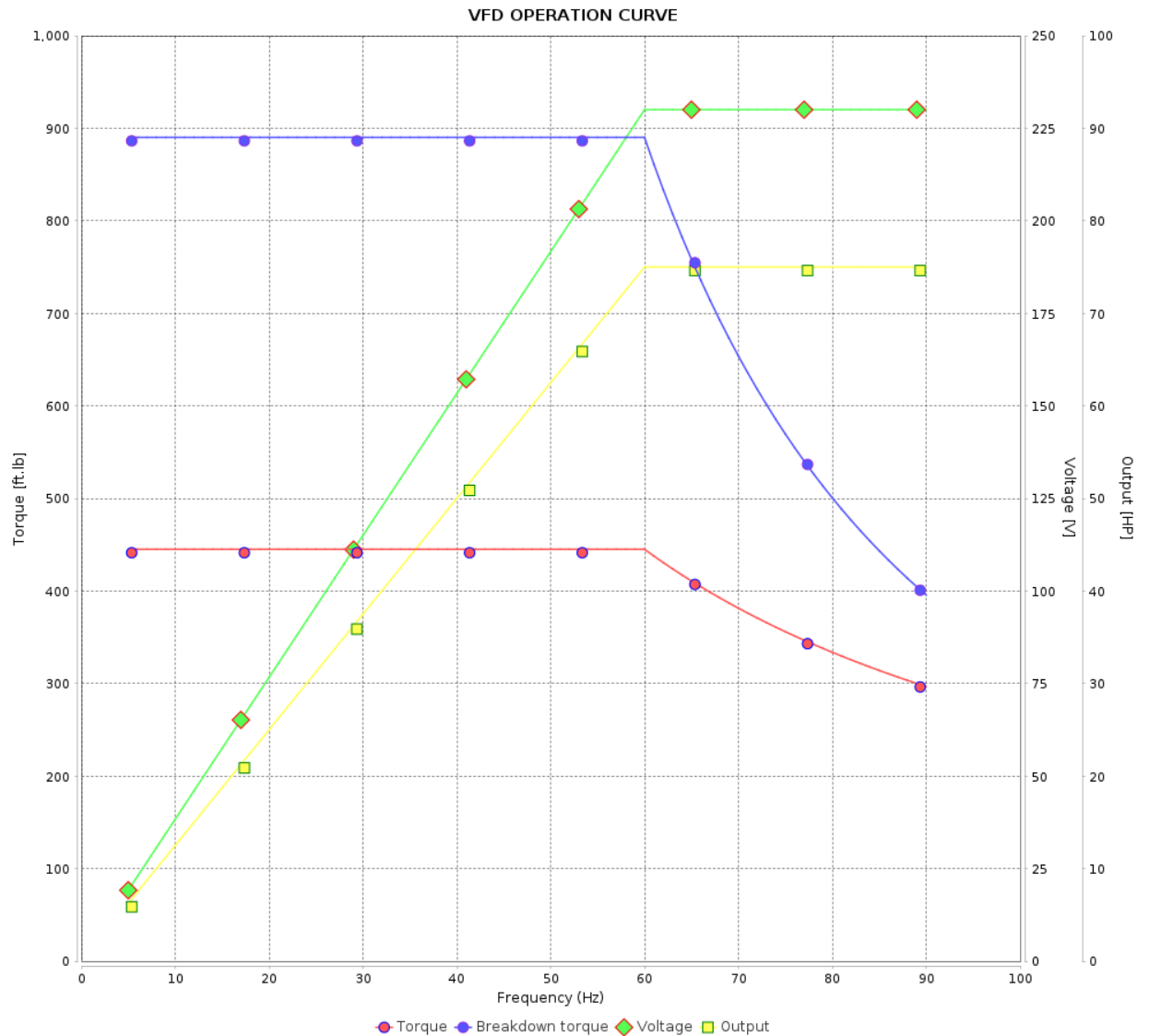
# VFD OPERATION CURVE

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