

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165695  
Catalog # : HT060502NPW22

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 364/5TS       | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 60 HP (45 kW) | Temperature rise            | : 80 K                 |
| Frequency             | : 60 Hz         | Duty cycle                  | : Cont.(S1)            |
| Rated voltage         | : 575 V         | Ambient temperature         | : -20°C to +40°C       |
| Poles                 | : 2             | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 54.2 A        | Protection degree           | : IP55                 |
|                       | : 6.6x(Code G)  | Cooling method              | : IC411 - TEFC         |
| Rated speed           | : 3555 rpm      | Mounting                    | : F-1                  |
| Rated torque          | : 88.6 ft.lb    | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Insulation class      | : F             | Noise level <sup>2</sup>    | : 79.0 dB(A)           |
| Service factor        | : 1.25          | Starting method             | : Direct On Line       |
| Moment of inertia (J) | : 10.6 sq.ft.lb | Approx. weight <sup>3</sup> | : 825 lb               |
| Design                | : B             |                             |                        |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 92.7 | 93.6 | 93.6 | Max. traction    | : 403 lb  |
| Power Factor   | 0.81 | 0.87 | 0.89 | Max. compression | : 1174 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 6.3          | 4.7          | 4.4           | 3.3          | 1.8          | 1.1           | 0.6            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6314 C3        | 6314 C3       |
| Sealing              | : WSeal          | WSeal         |
| Lubrication interval | : 4000 h         | 4000 h        |
| Lubricant amount     | : 27 g           | 27 g          |
| Lubricant type       | Mobil Polyrex EM |               |

Notes

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         | 29/06/2026      |           | Page<br>1 / 5 | Revision |

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

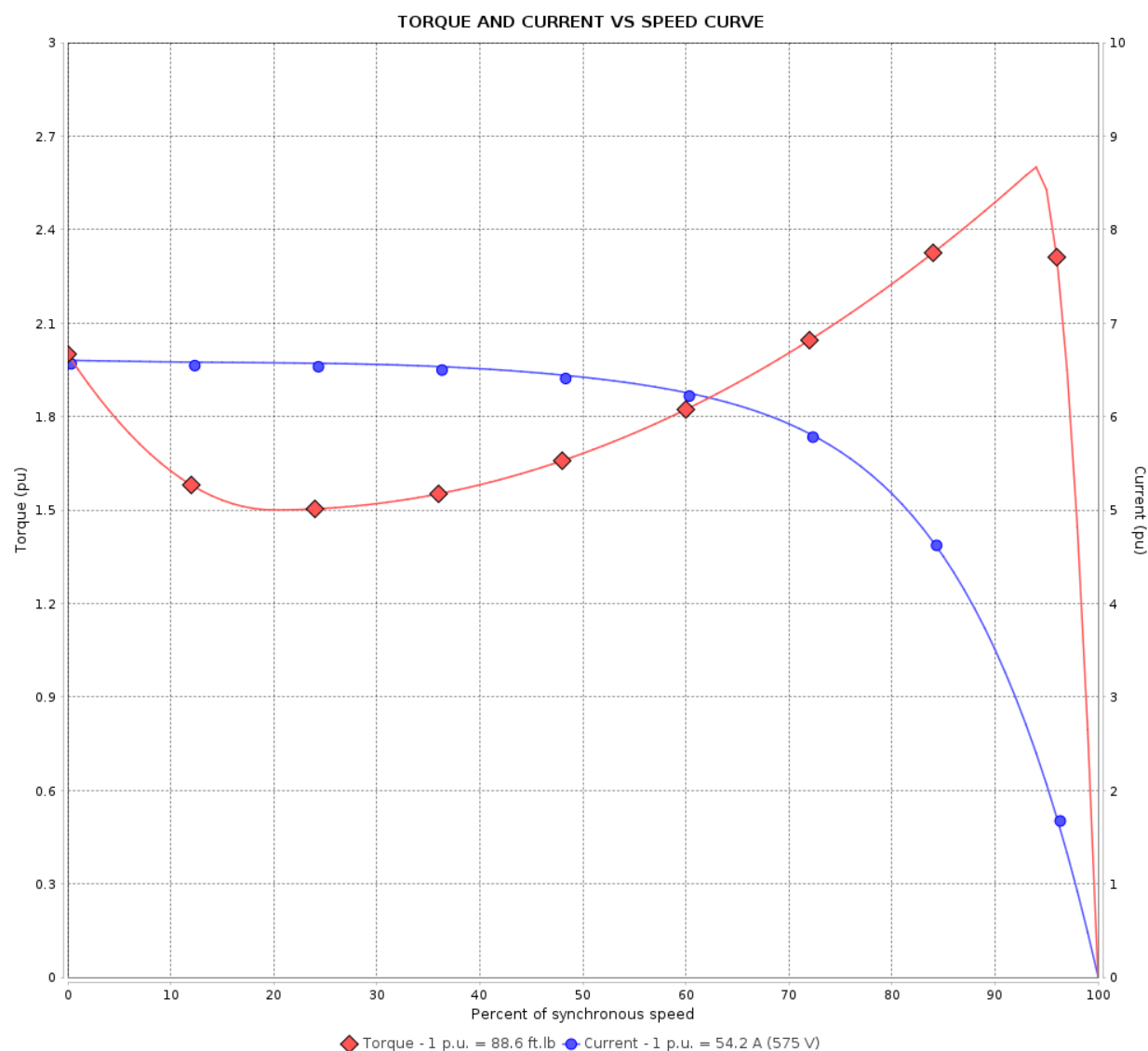


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Performance : 575 V 60 Hz 2P

Rated current : 54.2 A  
LRC : 6.6  
Rated torque : 88.6 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 260 %  
Rated speed : 3555 rpm

Moment of inertia (J) : 10.6 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Duty cycle : Cont.(S1)

Locked rotor time : 21s (cold) 12s (hot)

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# LOAD PERFORMANCE CURVE

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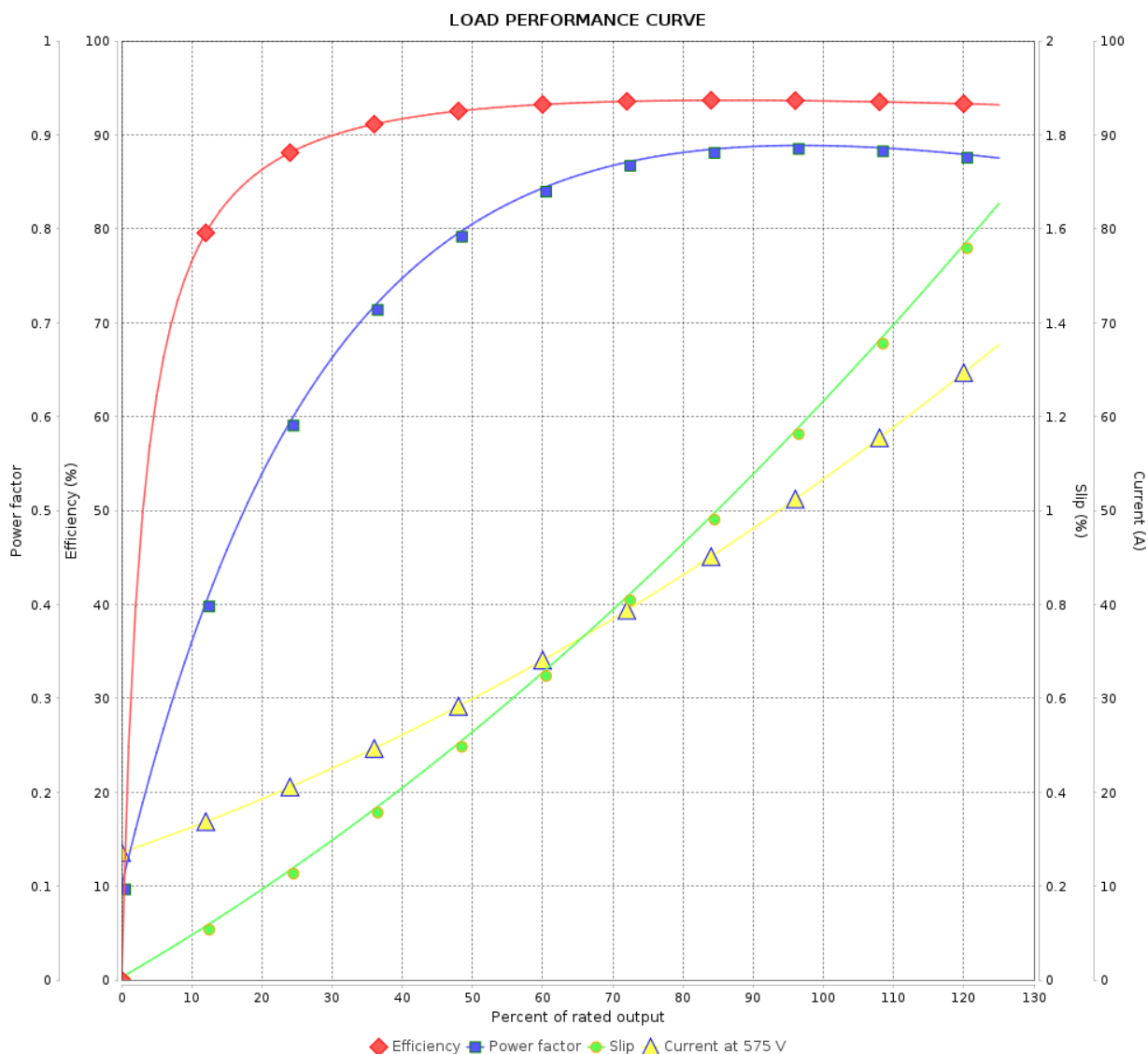


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# THERMAL LIMIT CURVE

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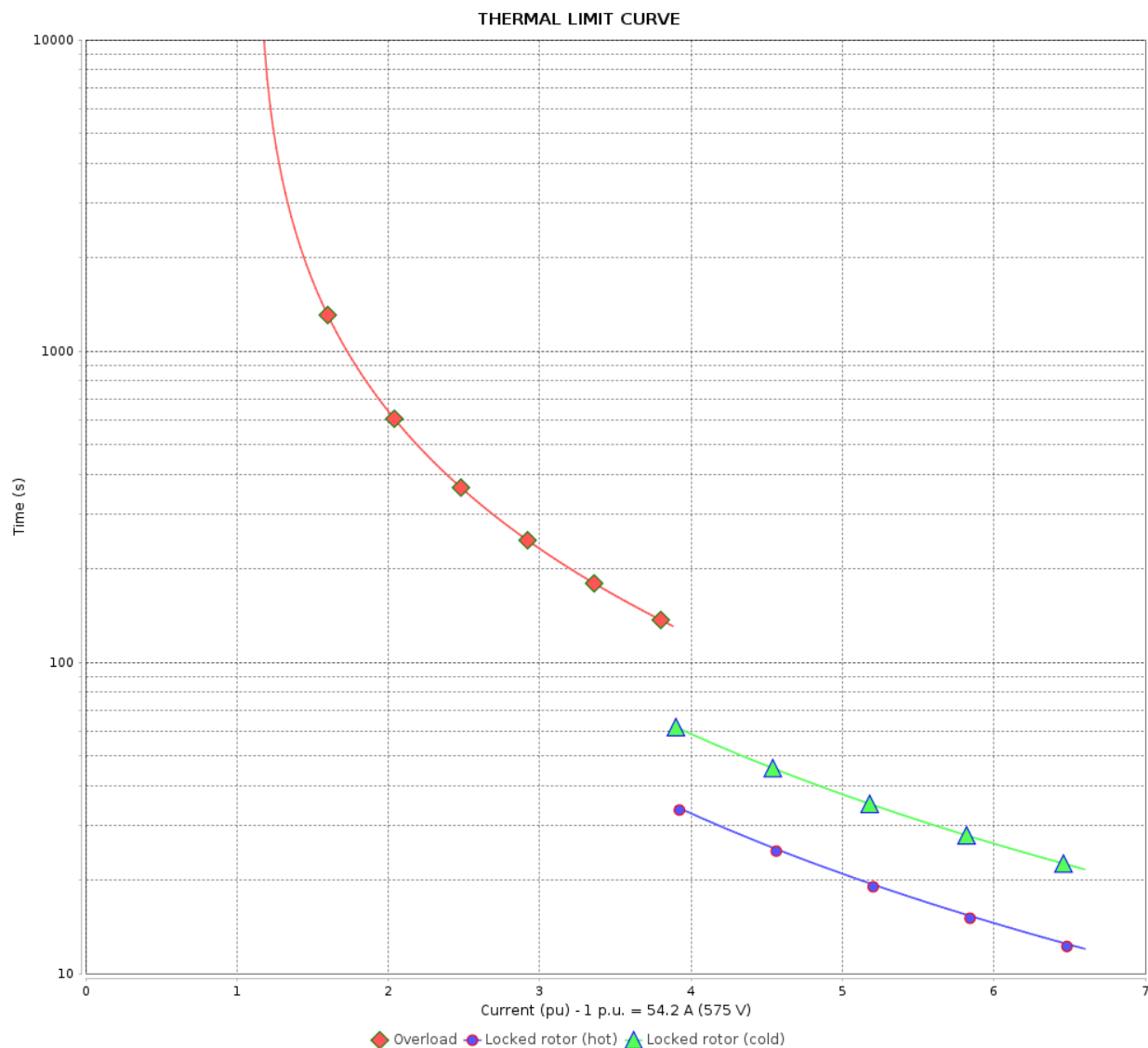


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Heating constant

Cooling constant

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# VFD OPERATION CURVE

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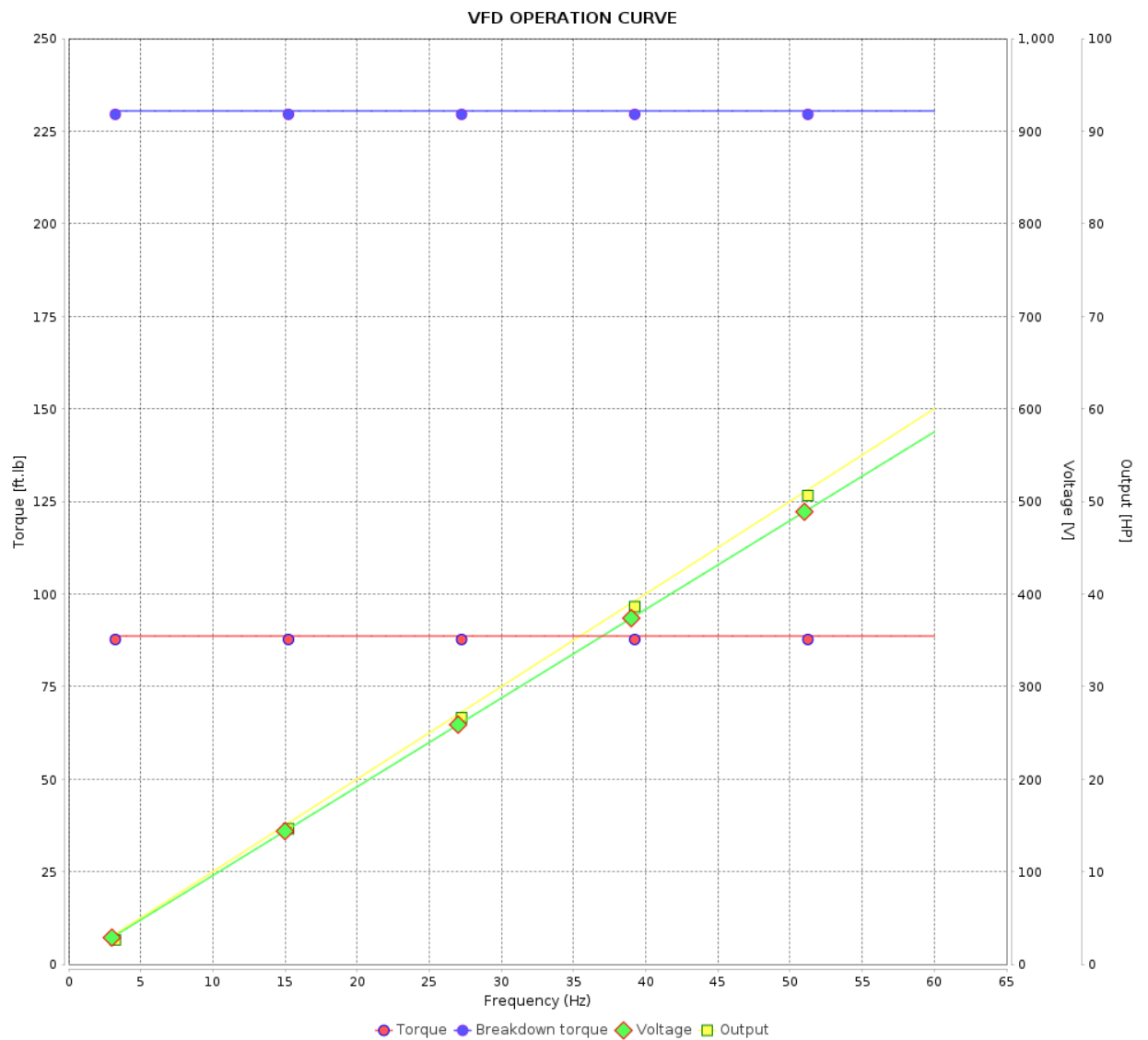


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