

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12717282  
Catalog # : CT007404NPW22

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 213/5TC         | Locked rotor time           | : 36s (cold) 20s (hot) |
| Output                | : 7.5 HP (5.5 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4               | 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         | : 18.4/9.18 A     | Protection degree           | : IP55                 |
| L. R. Amperes         | : 130/65.2 A      | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.1x(Code H)    | Mounting                    | : F-1                  |
| No load current       | : 7.80/3.90 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1765 rpm        | Noise level <sup>2</sup>    | : 58.0 dB(A)           |
| Slip                  | : 1.94 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 22.3 ft.lb      | Approx. weight <sup>3</sup> | : 154 lb               |
| Locked rotor torque   | : 220 %           |                             |                        |
| Breakdown torque      | : 280 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.25            |                             |                        |
| Moment of inertia (J) | : 1.34 sq.ft.lb   |                             |                        |
| Design                | : B               |                             |                        |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 89.5 | 91.0 | 91.7 | Max. traction    | : 310 lb |
| Power Factor   | 0.66 | 0.76 | 0.82 | Max. compression | : 478 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 10.2         | 9.0          | 8.4           | 4.8          | 3.6          | 2.4           | 1.7            |

|                      |                  |                      |
|----------------------|------------------|----------------------|
|                      | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : 6308 ZZ        | : 6207 ZZ            |
| Sealing              | : V'Ring         | : V'Ring             |
| Lubrication interval | : -              | : -                  |
| Lubricant amount     | : -              | : -                  |
| Lubricant type       | : 00088          |                      |

### Notes

USABLE @208V 19.9A SF 1.15 SFA 22.9A

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         | 21/07/2026      |           | Page<br>1 / 6 | Revision |

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

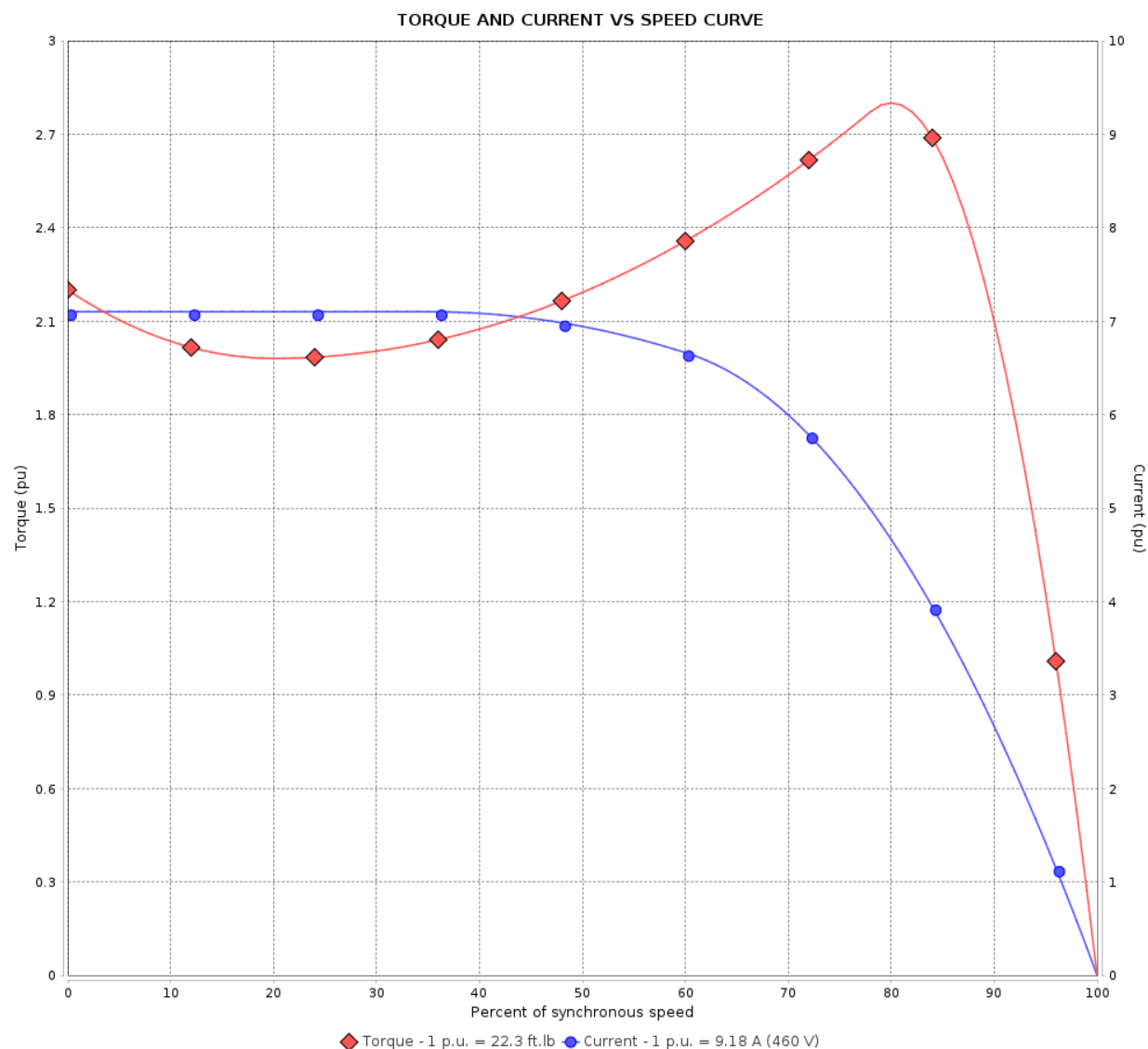


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LRC : 7.1  
Rated torque : 22.3 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 280 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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|--------------|-----------------|-----------------------|---------|------|
|              |                 |                       |         |      |
| Performed by |                 | Page<br>2 / 6Revision |         |      |
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

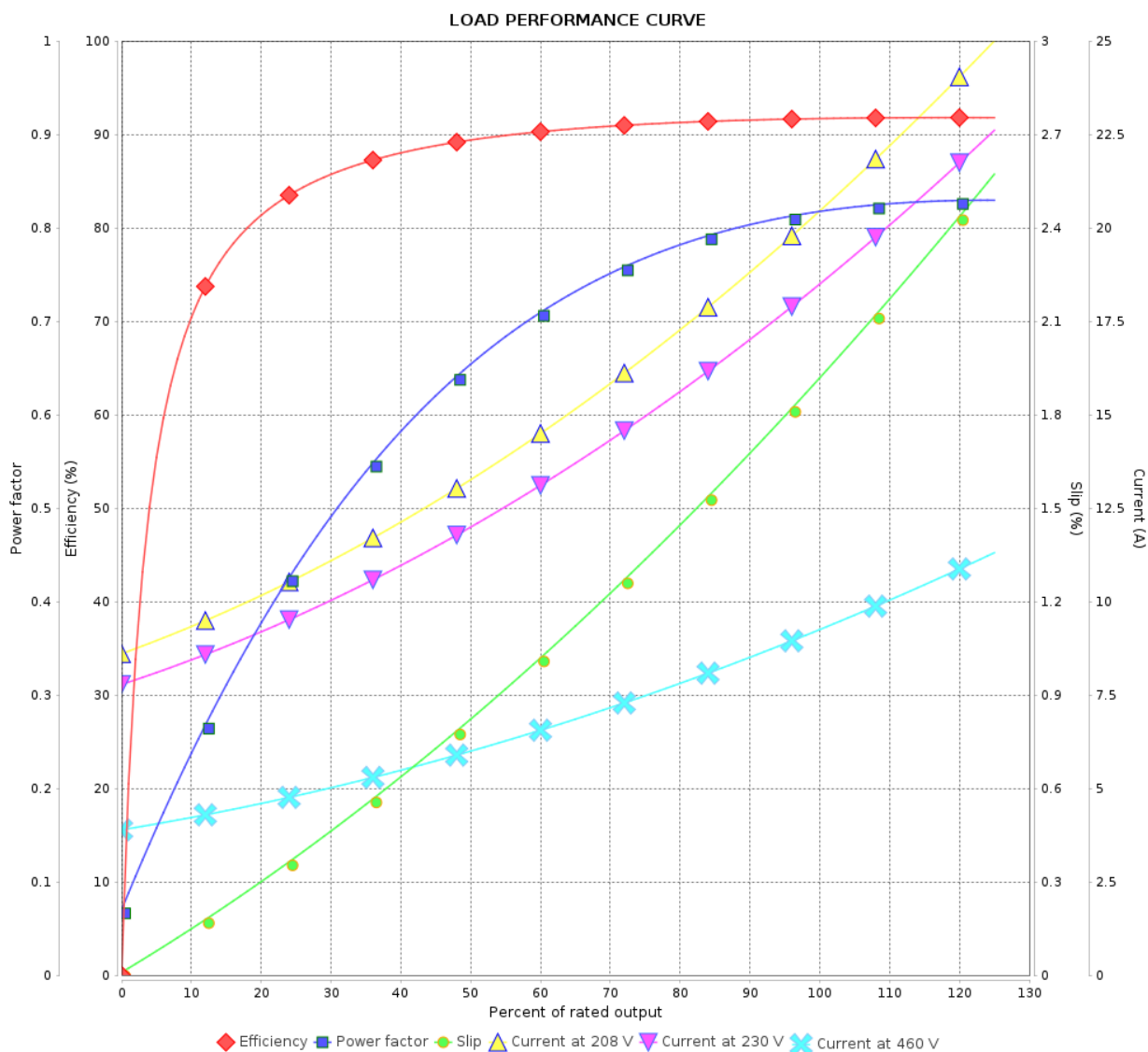


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|              |                 |                       |         |      |
| Performed by |                 | Page<br>3 / 6Revision |         |      |
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# THERMAL LIMIT CURVE

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Heating constant

Cooling constant

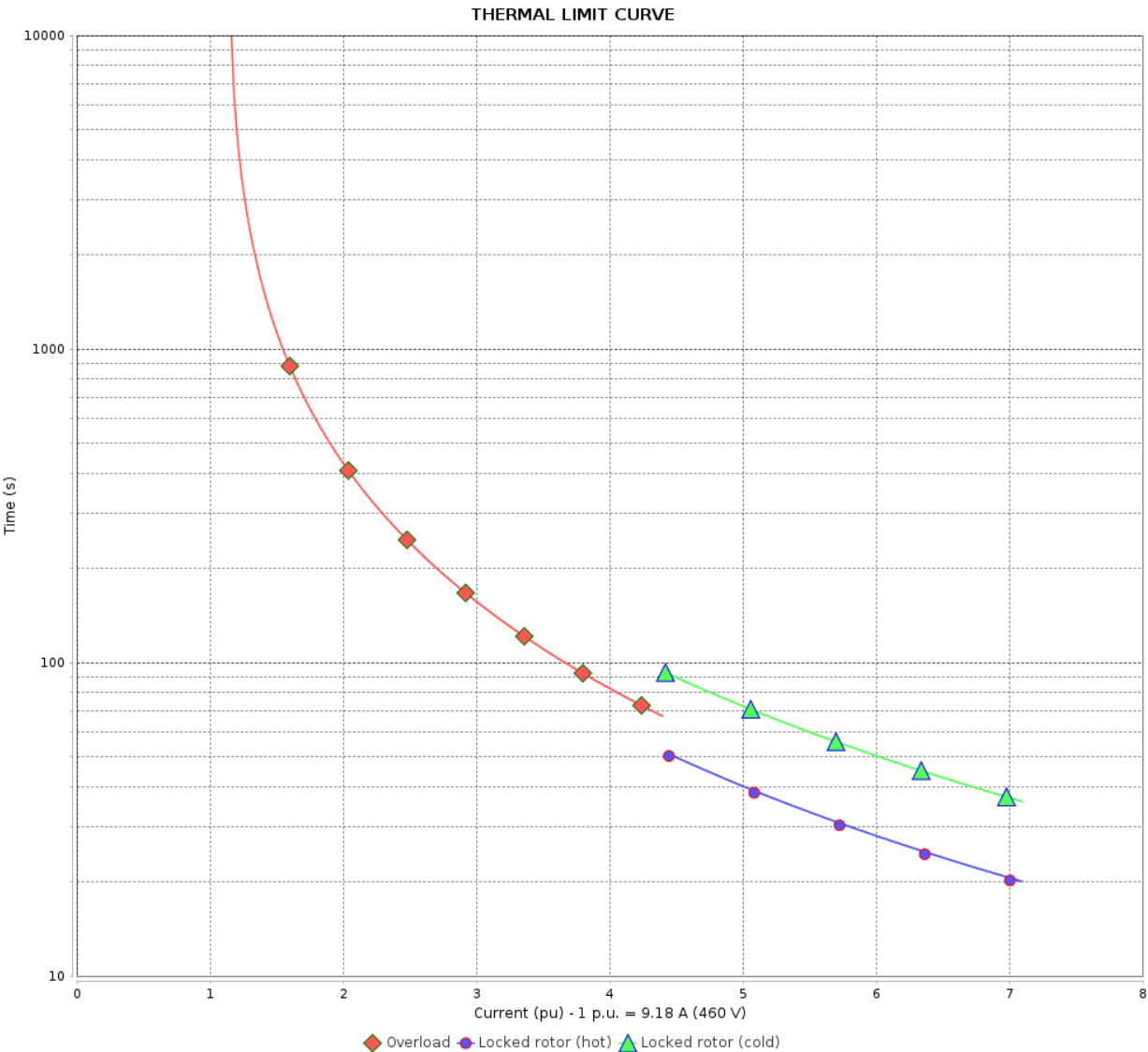
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|              |                 |  |               |         |          |
| Performed by |                 |  | Page<br>4 / 6 |         | Revision |
| Checked by   |                 |  |               |         |          |
| Date         | 21/07/2026      |  |               |         |          |

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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|--------------|-----------------|----------|-----------|---------|---------------|
|              |                 |          |           |         |               |
| Performed by |                 |          |           |         | Page<br>5 / 6 |
| Checked by   |                 |          |           |         |               |
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|              |                 | Revision |           |         |               |

# VFD OPERATION CURVE

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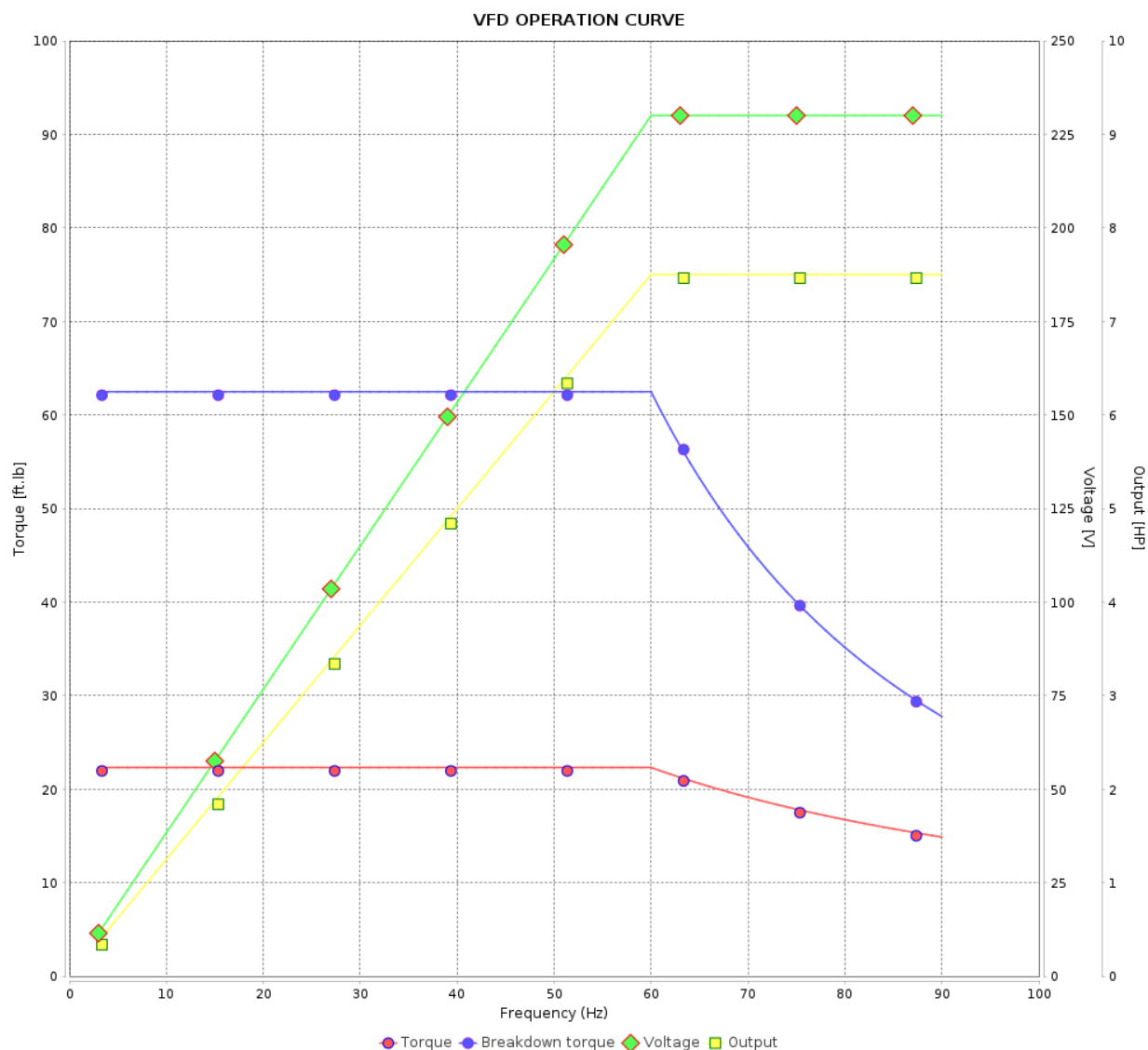


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| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 6 / 6   |          |
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