

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12378663

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| Frame : 143/5T                       | Cooling method : IC411 - TEFC                   |
| Insulation class : F                 | Mounting : F-1                                  |
| Duty cycle : Cont.(S1)               | Rotation <sup>1</sup> : Both (CW and CCW)       |
| Ambient temperature : -20°C to +40°C | Starting method : Direct On Line                |
| Altitude : 1000 m.a.s.l.             | Approx. weight <sup>3</sup> : 16.5 kg           |
| Protection degree : IP55             | Moment of inertia (J) : 0.0014 kgm <sup>2</sup> |
| Design : B                           |                                                 |

|                          |                         |                         |                         |                         |                         |                         |                         |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Output [HP]              | 1                       | 0.75                    | 0.75                    | 0.75                    | 1                       | 1                       | 1                       |
| Poles                    | 2                       | 2                       | 2                       | 2                       | 2                       | 2                       | 2                       |
| Frequency [Hz]           | 60                      | 50                      | 50                      | 50                      | 50                      | 50                      | 50                      |
| Rated voltage [V]        | 230/460                 | 380                     | 400                     | 415                     | 380                     | 400                     | 415                     |
| Rated current [A]        | 2.94/1.47               | 1.34                    | 1.32                    | 1.33                    | 1.71                    | 1.65                    | 1.63                    |
| L. R. Amperes [A]        | 24.1/12.1               | 11.5                    | 11.9                    | 12.5                    | 11.5                    | 11.9                    | 12.6                    |
| LRC [A]                  | 8.2x(Code L)            | 8.6x(Code M)            | 9.0x(Code M)            | 9.4x(Code N)            | 6.7x(Code J)            | 7.2x(Code K)            | 7.7x(Code L)            |
| No load current [A]      | 1.54/0.770              | 0.740                   | 0.820                   | 0.880                   | 0.740                   | 0.820                   | 0.880                   |
| Rated speed [RPM]        | 3500                    | 2910                    | 2920                    | 2925                    | 2865                    | 2885                    | 2895                    |
| Slip [%]                 | 2.78                    | 3.00                    | 2.67                    | 2.50                    | 4.50                    | 3.83                    | 3.50                    |
| Rated torque [kgfm]      | 0                       | 0                       | 0                       | 0                       | 0                       | 0                       | 0                       |
| Locked rotor torque [%]  | 220                     | 229                     | 250                     | 270                     | 170                     | 190                     | 200                     |
| Breakdown torque [%]     | 310                     | 310                     | 340                     | 360                     | 220                     | 250                     | 270                     |
| Service factor           | 1.25                    | 1.25                    | 1.25                    | 1.25                    | 1.25                    | 1.25                    | 1.25                    |
| Temperature rise         | 80 K                    | 80 K                    | 80 K                    | 80 K                    | 80 K                    | 80 K                    | 80 K                    |
| Locked rotor time        | 36s (cold)<br>20s (hot) | 46s (cold)<br>26s (hot) | 43s (cold)<br>24s (hot) | 39s (cold)<br>22s (hot) | 39s (cold)<br>22s (hot) | 36s (cold)<br>20s (hot) | 36s (cold)<br>20s (hot) |
| Noise level <sup>2</sup> | 68.0 dB(A)              | 62.0 dB(A)              | 62.0 dB(A)              | 62.0 dB(A)              | 62.0 dB(A)              | 62.0 dB(A)              | 62.0 dB(A)              |
| Efficiency (%)           | 25%                     |                         |                         |                         |                         |                         |                         |
|                          | 50%                     | 75.0                    | 72.9                    | 72.3                    | 71.7                    | 77.0                    | 77.0                    |
|                          | 75%                     | 79.0                    | 77.6                    | 77.6                    | 77.6                    | 78.5                    | 78.5                    |
|                          | 100%                    | 80.0                    | 80.0                    | 80.0                    | 80.0                    | 78.5                    | 80.0                    |
| Power Factor             | 25%                     |                         |                         |                         |                         |                         |                         |
|                          | 50%                     | 0.63                    | 0.58                    | 0.53                    | 0.50                    | 0.68                    | 0.63                    |
|                          | 75%                     | 0.74                    | 0.70                    | 0.66                    | 0.63                    | 0.78                    | 0.75                    |
|                          | 100%                    | 0.80                    | 0.78                    | 0.75                    | 0.72                    | 0.85                    | 0.80                    |

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

|            |                |      |      |      |      |      |      |      |
|------------|----------------|------|------|------|------|------|------|------|
| Losses (%) | P1 (0,9;1,0)   | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
|            | P2 (0,5;1,0)   | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
|            | P3 (0,25;1,0)  | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
|            | P4 (0,9;0,5)   | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
|            | P5 (0,5;0,5)   | 8.4  | 8.4  | 8.4  | 8.4  | 8.4  | 8.4  | 8.4  |
|            | P6 (0,5;0,25)  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  |
|            | P7 (0,25;0,25) | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  |

|                          |                         |                           |
|--------------------------|-------------------------|---------------------------|
| Bearing type : 6205 ZZ   | Non drive end : 6204 ZZ | Foundation loads          |
| Sealing : V'Ring         | V'Ring                  | Max. traction : 10 kgf    |
| Lubrication interval : - | -                       | Max. compression : 28 kgf |
| Lubricant amount : -     | -                       |                           |
| Lubricant type : 00088   |                         |                           |

This revision replaces and cancel the previous one, which must be eliminated.  
(1) Looking the motor from the shaft end.

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

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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Notes  
USABLE @208V 3.16A SF 1.15 SFA 3.64A

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# LOAD PERFORMANCE CURVE

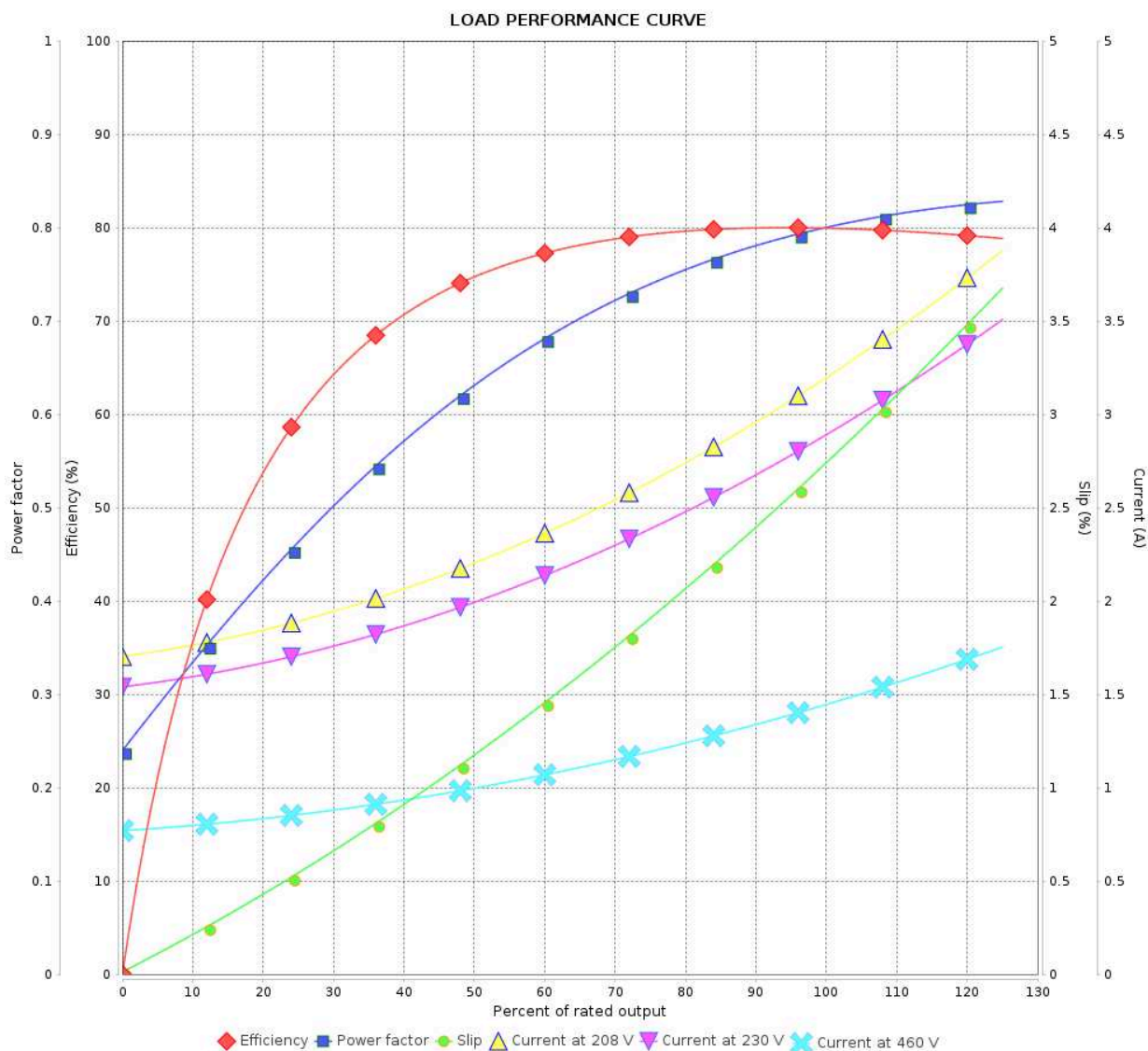
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 230/460 V 60 Hz 2P

Rated current : 2.94/1.47 A  
LRC : 8.2  
Rated torque : 0 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 310 %  
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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# LOAD PERFORMANCE CURVE

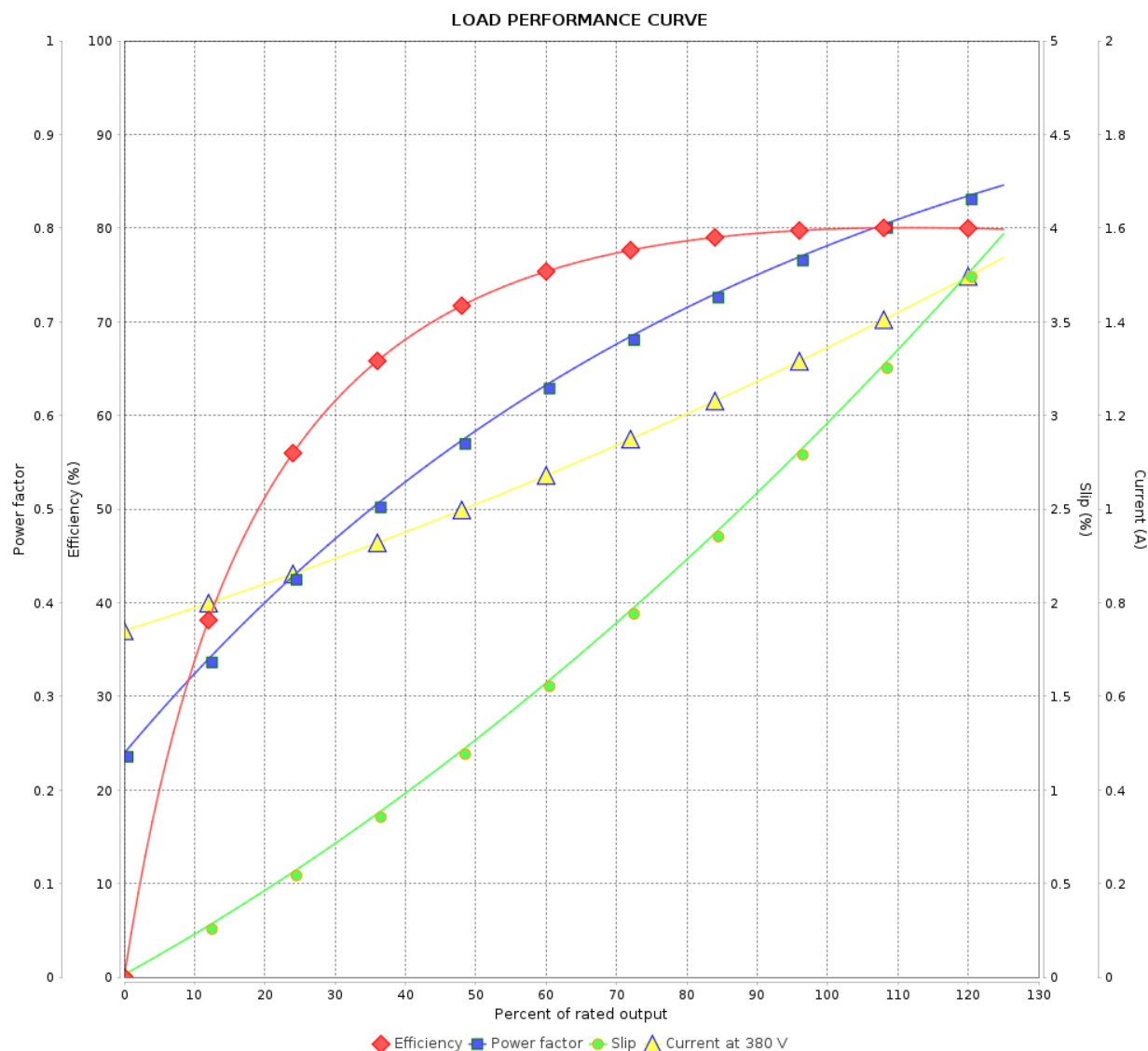
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 380 V 50 Hz 2P IE3

Rated current : 1.34 A  
LRC : 8.6  
Rated torque : 0 kgfm  
Locked rotor torque : 229 %  
Breakdown torque : 310 %  
Rated speed : 2910 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
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# LOAD PERFORMANCE CURVE

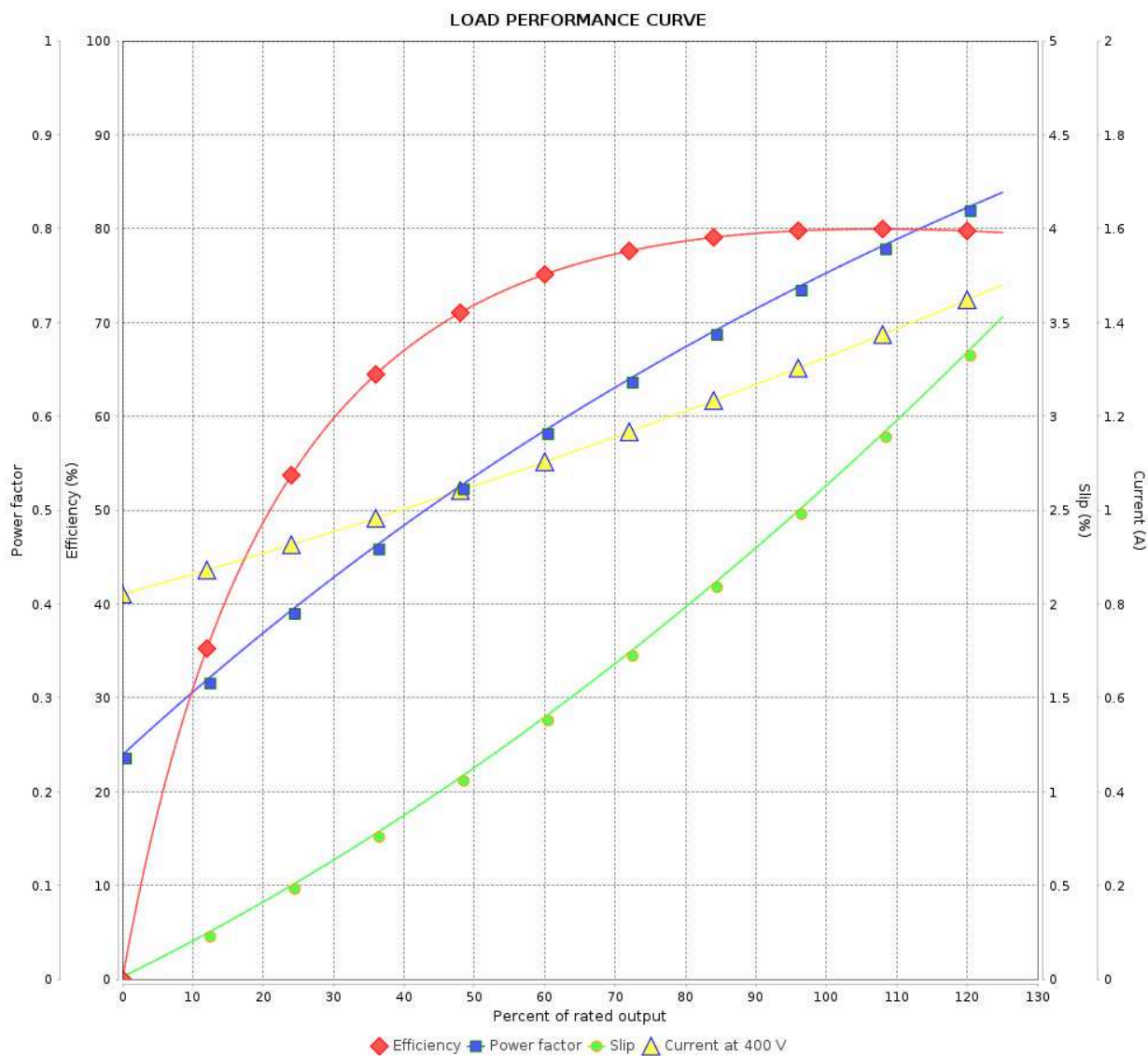
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 400 V 50 Hz 2P IE3

Rated current : 1.32 A  
LRC : 9.0  
Rated torque : 0 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 340 %  
Rated speed : 2920 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked       | Date     |
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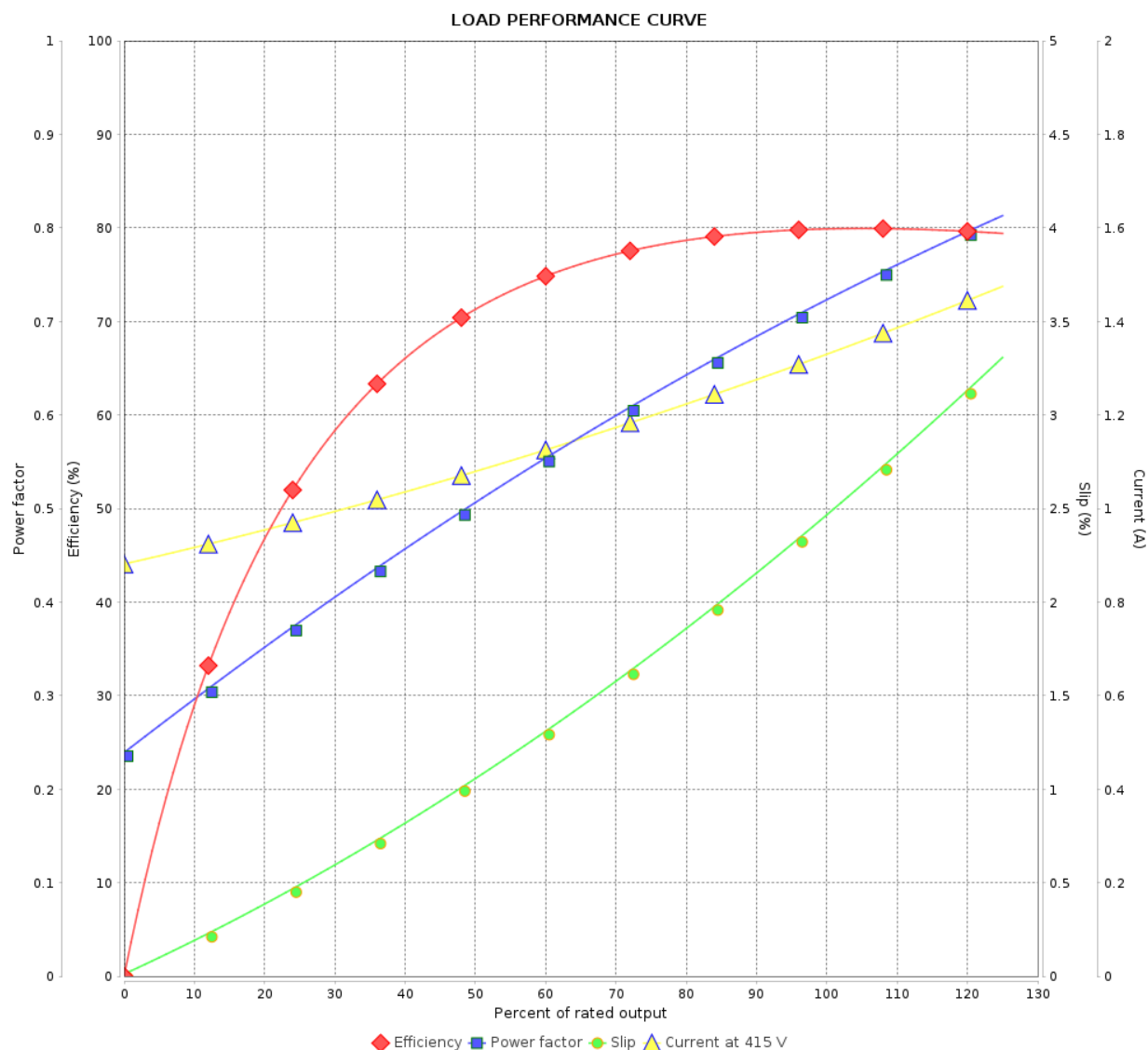
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 415 V 50 Hz 2P IE3

Rated current : 1.33 A  
LRC : 9.4  
Rated torque : 0 kgfm  
Locked rotor torque : 270 %  
Breakdown torque : 360 %  
Rated speed : 2925 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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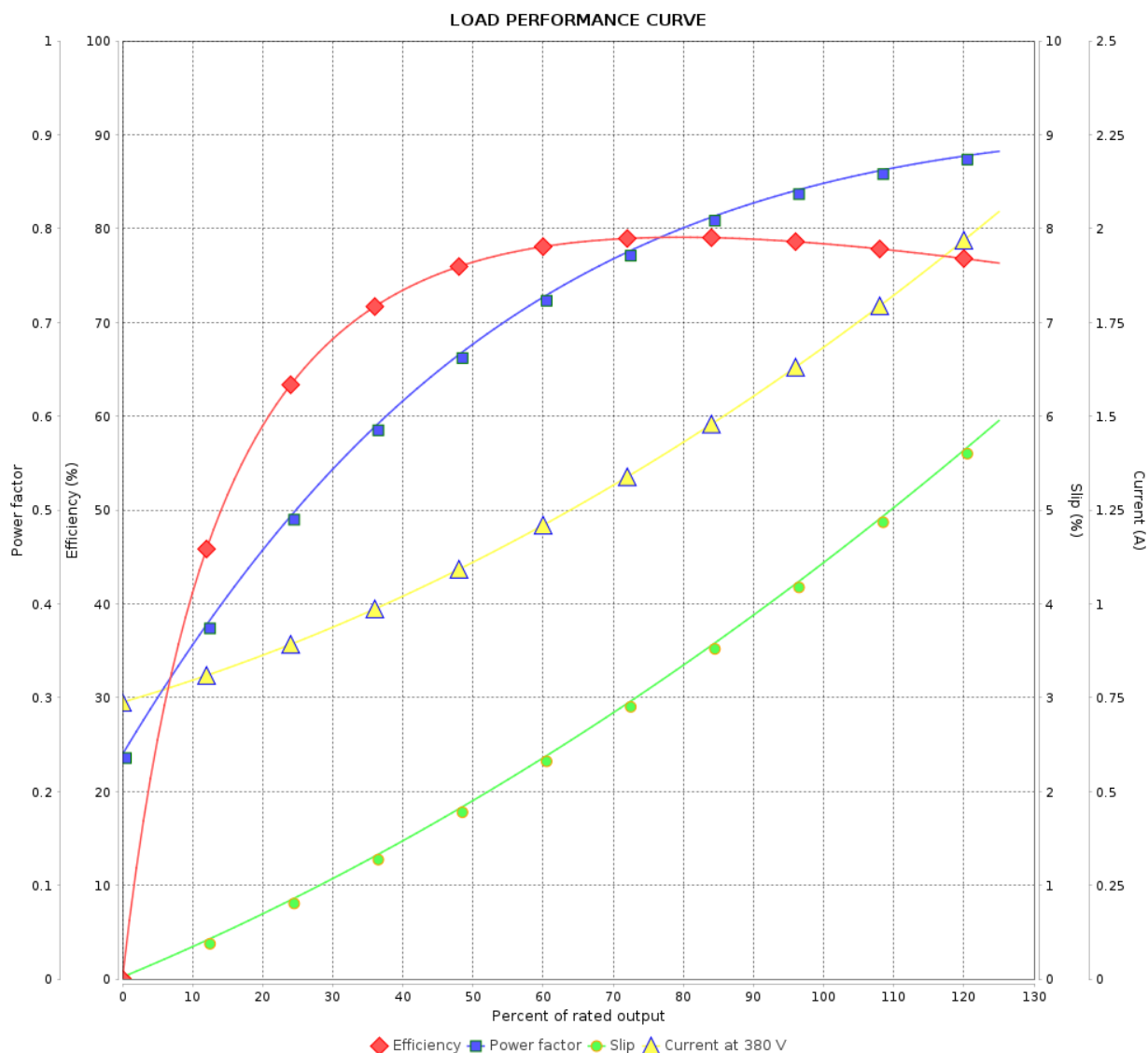
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 380 V 50 Hz 2P IE2

Rated current : 1.71 A  
LRC : 6.7  
Rated torque : 0 kgfm  
Locked rotor torque : 170 %  
Breakdown torque : 220 %  
Rated speed : 2865 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked       | Date     |
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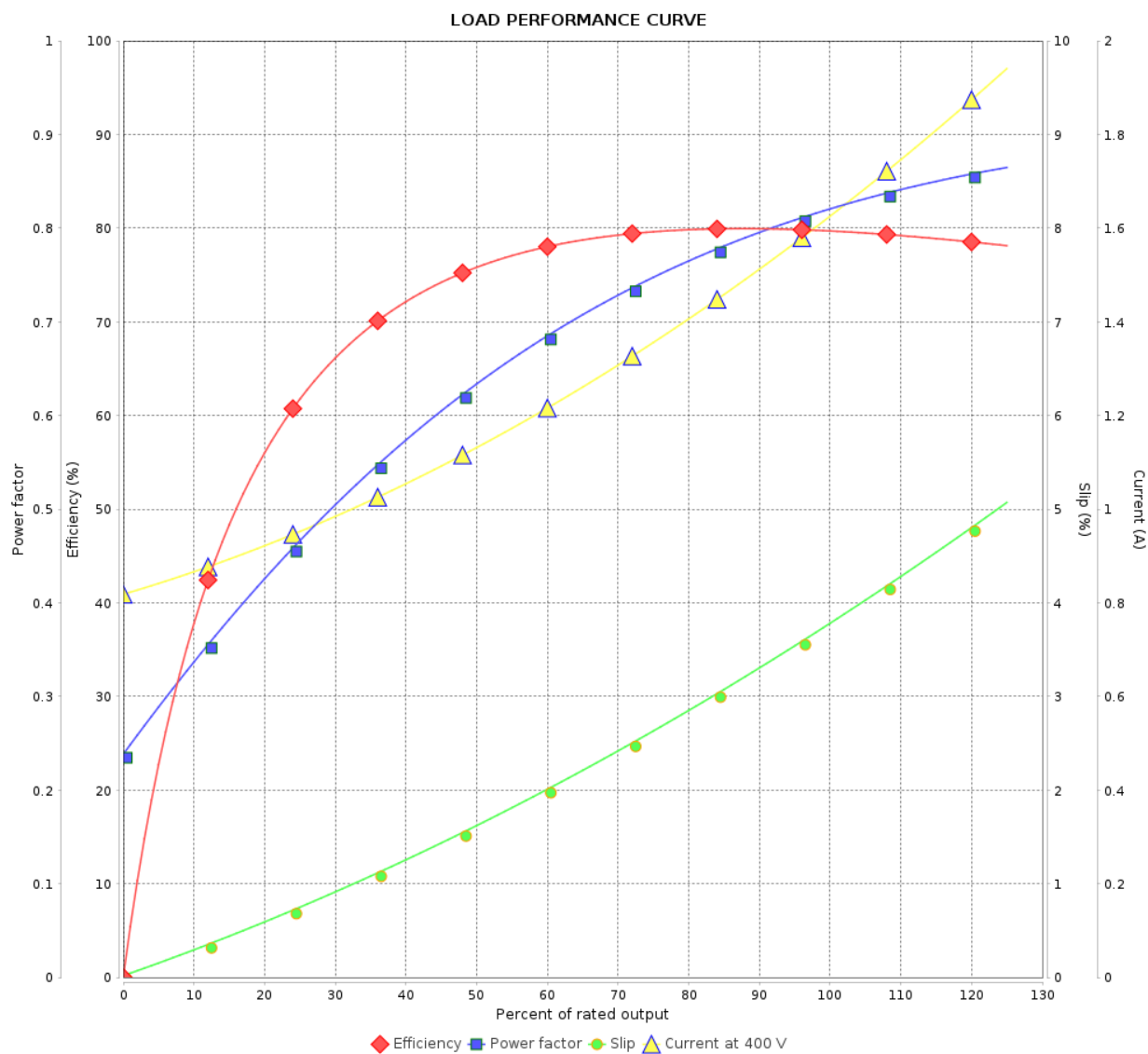
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 400 V 50 Hz 2P IE2

Rated current : 1.65 A  
LRC : 7.2  
Rated torque : 0 kgfm  
Locked rotor torque : 190 %  
Breakdown torque : 250 %  
Rated speed : 2885 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary |  | Performed | Checked       | Date     |
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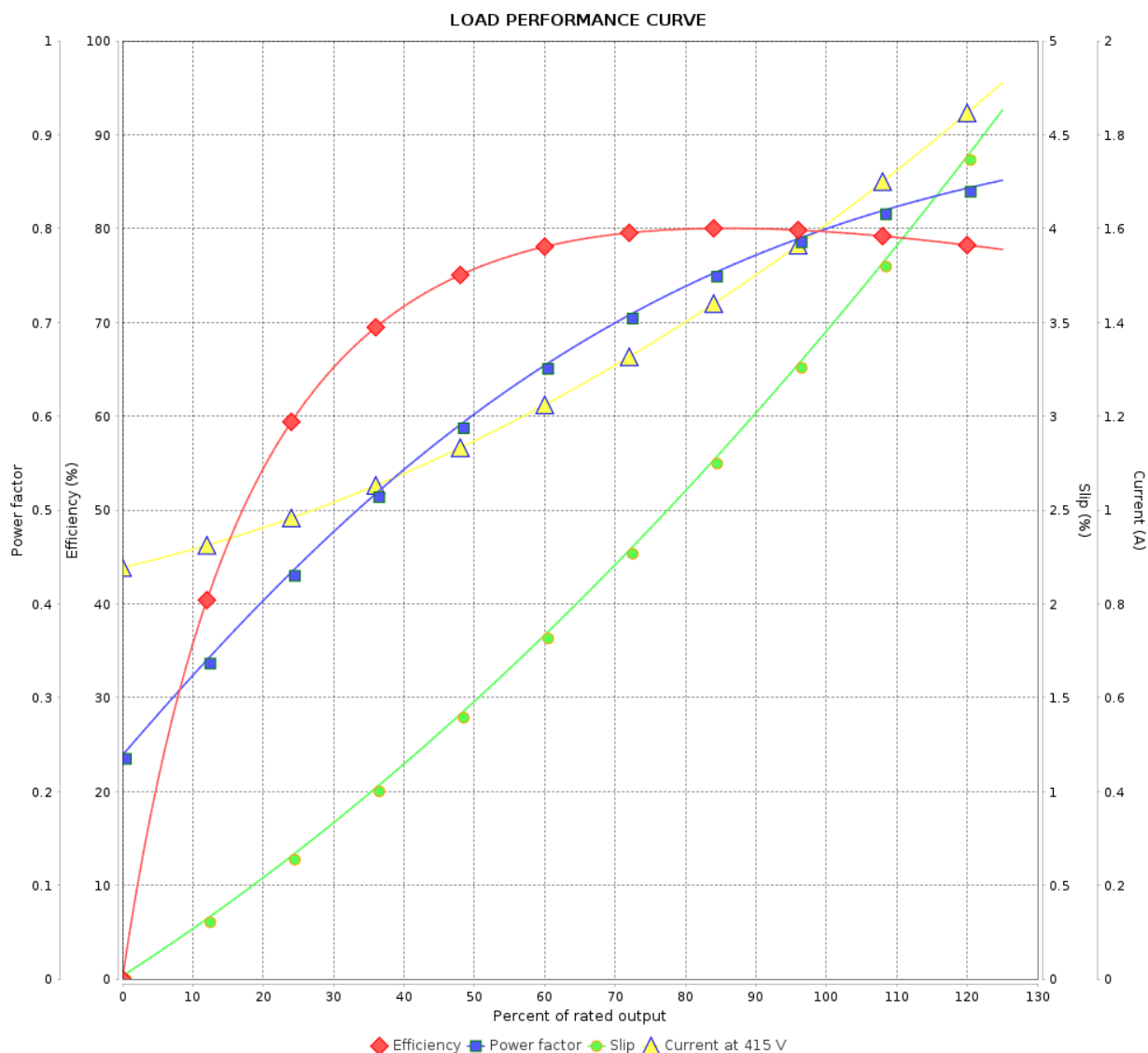
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12378663



Performance : 415 V 50 Hz 2P IE2

Rated current : 1.63 A  
LRC : 7.7  
Rated torque : 0 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 270 %  
Rated speed : 2895 rpm

Moment of inertia (J) : 0.0014 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked       | Date     |
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