

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |  |   |          |
|--|---|--|---|----------|
| Customer :   |   |  |   |          |
| Product line : Three-Phase   |   | Product code : 13702731  |   |          |
| Frame : 56C  | Insulation class : F                        | Cooling method : IC01 - ODP  | Mounting : F-1                                  |          |
| Duty cycle : Cont.(S1)   | Ambient temperature : -20°C to +40°C        | Rotation <sup>1</sup> : Both (CW and CCW)  | Starting method : Direct On Line                |          |
| Altitude : 1000 m.a.s.l.   |   | Approx. weight <sup>2</sup> : 10.9 kg  | Moment of inertia (J) : 0.0030 kgm <sup>2</sup> |          |
| Output [HP]  | 0.75  | 0.75   | 0.75  |          |
| Poles  | 4   | 4  | 4   |          |
| Frequency [Hz]   | 60  | 50   | 50  |          |
| Rated voltage [V]  | 208-230/460                                 | 190/380  | 220/415   |          |
| Rated current [A]  | 2.54-2.30/1.15                              | 2.62/1.31  | 2.43/1.29                                       |          |
| L. R. Amperes [A]  | 18.5-16.8/8.40                              | 14.9/7.47  | 15.6/8.26                                       |          |
| LRC [A]  | 7.3x(Code K)                                | 5.7x(Code H)   | 6.4x(Code J)                                    |          |
| No load current [A]  | 1.38-1.60/0.800                             | 1.53/0.763   | 1.73/0.917                                      |          |
| Rated speed [RPM]  | 1760  | 1445   | 1455  |          |
| Slip [%]   | 2.22  | 3.67   | 3.00  |          |
| Rated torque [kgfm]  | 0.309                                       | 0.377  | 0.374   |          |
| Locked rotor torque [%]  | 250   | 170  | 210   |          |
| Breakdown torque [%]   | 300   | 240  | 290   |          |
| Service factor   |   | 1.25   | 1.25  |          |
| Temperature rise   | 80 K  | 80 K   | 80 K  |          |
| Locked rotor time  | 37s (cold) 21s (hot)                        | 43s (cold) 24s (hot)   | 36s (cold) 20s (hot)                            |          |
| Noise level <sup>2</sup>   | 52.0 dB(A)                                  | 49.0 dB(A)   | 49.0 dB(A)                                      |          |
| Efficiency (%)   | 25%   |  |   |          |
|  | 50%   | 74.0   | 76.6  | 73.6     |
|  | 75%   | 78.5   | 79.2  | 77.8     |
|  | 100%  | 81.1   | 78.8  | 78.9     |
| Power Factor   | 25%   |  |   |          |
|  | 50%   | 0.52   | 0.60  | 0.52     |
|  | 75%   | 0.65   | 0.73  | 0.65     |
|  | 100%  | 0.74   | 0.81  | 0.75     |
| Bearing type   | : Drive end 6203 ZZ Non drive end 6202 ZZ   | Foundation loads   |   |          |
| Sealing  | : Without Bearing Seal Without Bearing Seal | Max. traction  | : 29 kgf  |          |
|  |   | Max. compression   | : 40 kgf  |          |
| Lubrication interval   | : -   |  |   |          |
| Lubricant amount   | : -   |  |   |          |
| Lubricant type   | : Mobil Polyrex EM                          |  |   |          |
| Notes<br>USABLE @208V SF 1.00  |   |  |   |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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  |
|  |   |  |   |          |
| Performed by   |   |  |   |          |
| Checked by   |   |  | Page  | Revision |
| Date   | 17/05/2022                                  |  | 1 / 4   |          |

# LOAD PERFORMANCE CURVE

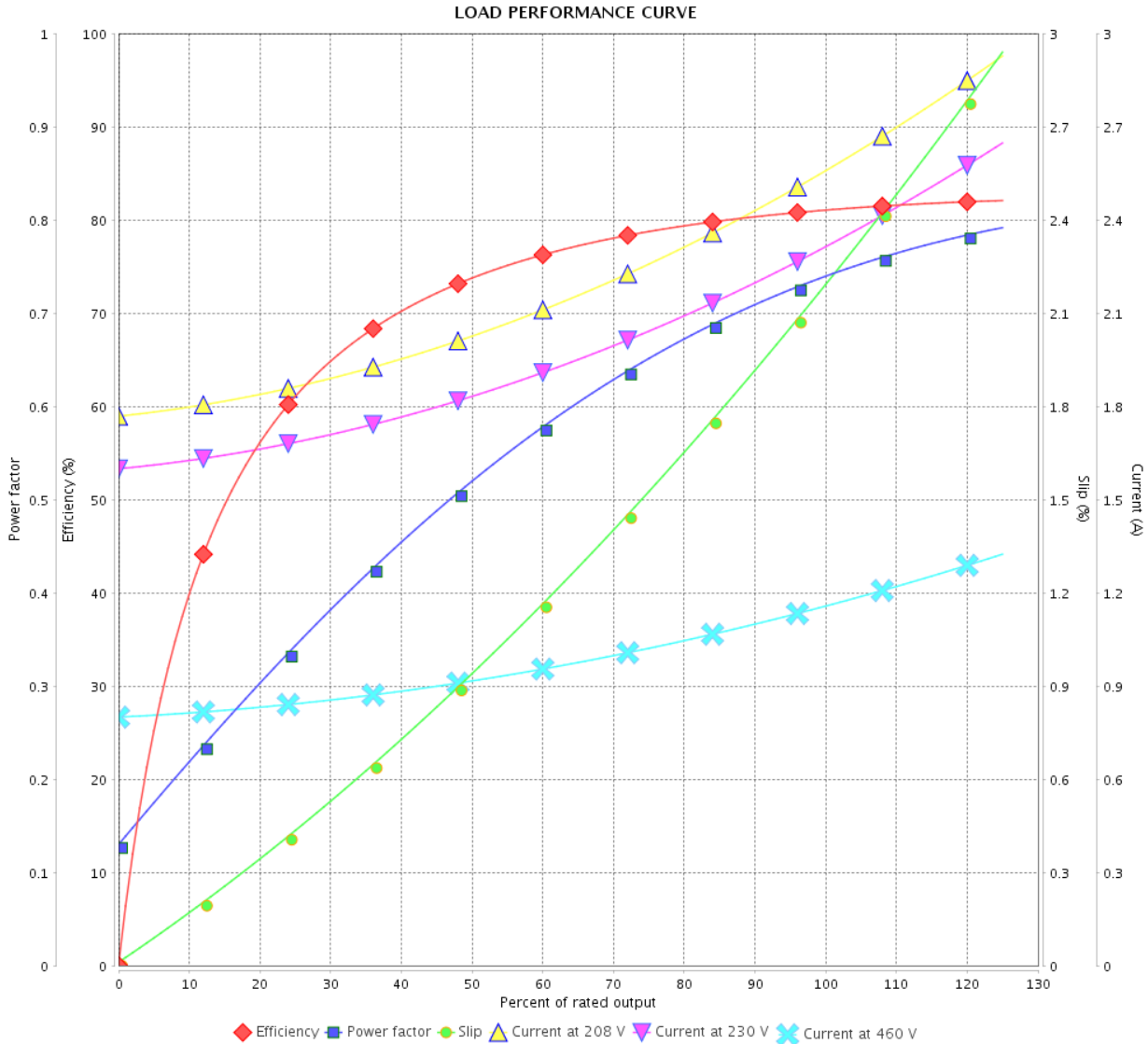
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Three-Phase

Product code : 13702731



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.54-2.30/1.15 A  
 LRC : 7.3  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

| Rev.         | Changes Summary | Performed | Checked       | Date     |
|--------------|-----------------|-----------|---------------|----------|
|              |                 |           |               |          |
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| Checked by   |                 |           |               |          |
| Date         | 17/05/2022      |           |               |          |

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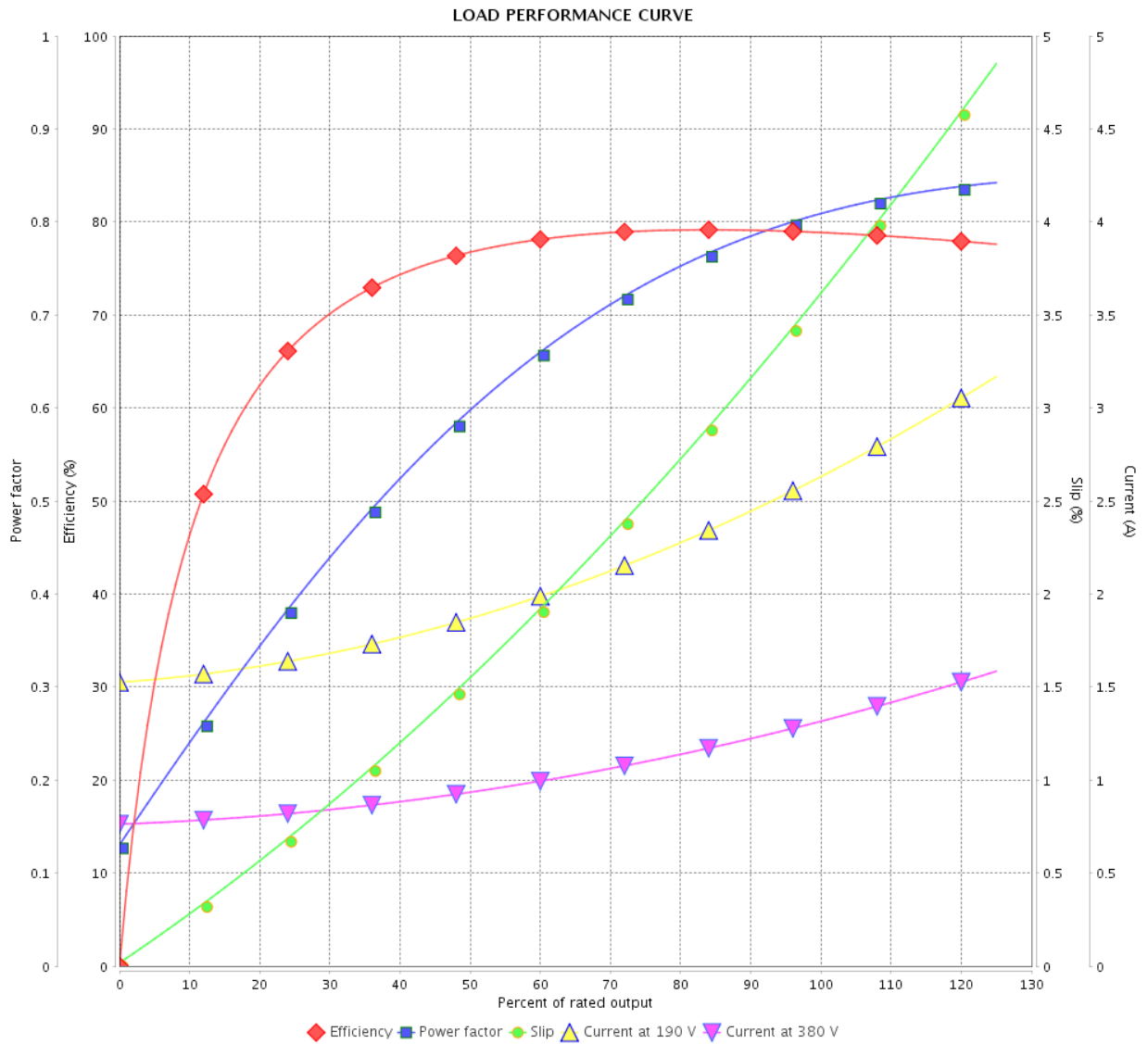
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Three-Phase

Product code : 13702731



Performance : 190/380 V 50 Hz 4P

Rated current : 2.62/1.31 A  
 LRC : 5.7  
 Rated torque : 0.377 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 240 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           |         |          |
| Date         |                 |           |         |          |

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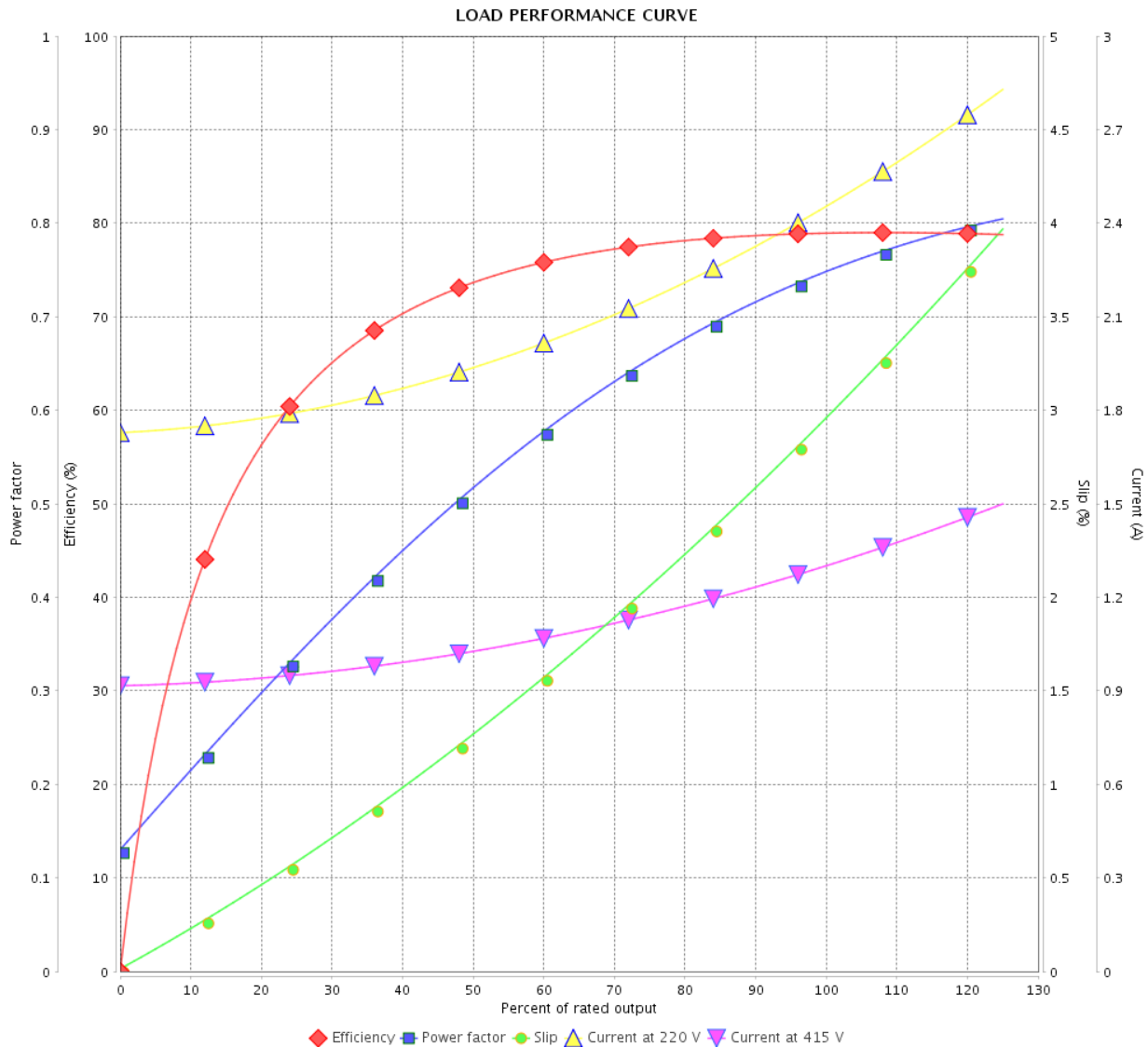
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702731



Performance : 220/415 V 50 Hz 4P

Rated current : 2.43/1.29 A  
 LRC : 6.4  
 Rated torque : 0.374 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 290 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K

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