

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | |
|--|-------------------------|-------------------------|-------------------------|---|-------------------------|-----------------------------|-------------------------|
| Customer : | | | | | | | |
| Product line : ODP NEMA Premium Efficiency Three-Phase | | | | Product code : 11100128 | | | |
| Frame : 444/5T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Design : B | | | | Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 663 kg Moment of inertia (J) : 2.09 kgm ² | | | |
| Output [HP] | 200 | 175 | 175 | 175 | 200 | 200 | 200 |
| Poles | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Frequency [Hz] | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 |
| Rated current [A] | 458/229 | 250 | 240 | 237 | 286 | 275 | 265 |
| L. R. Amperes [A] | 2794/1397 | 1575 | 1680 | 1778 | 1602 | 1705 | 1776 |
| LRC [A] | 6.1x(Code F) | 6.3x(Code G) | 7.0x(Code H) | 7.5x(Code J) | 5.6x(Code F) | 6.2x(Code G) | 6.7x(Code H) |
| No load current [A] | 150/75.0 | 91.5 | 101 | 111 | 91.5 | 101 | 111 |
| Rated speed [RPM] | 1780 | 1480 | 1480 | 1485 | 1480 | 1480 | 1485 |
| Slip [%] | 1.11 | 1.33 | 1.33 | 1.00 | 1.33 | 1.33 | 1.00 |
| Rated torque [kgfm] | 81.5 | 85.8 | 85.8 | 85.5 | 98.1 | 98.1 | 97.7 |
| Locked rotor torque [%] | 200 | 210 | 220 | 240 | 180 | 190 | 210 |
| Breakdown torque [%] | 229 | 250 | 290 | 320 | 220 | 250 | 280 |
| Service factor | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| Temperature rise | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | 28s (cold) 16s (hot) | 23s (cold) 13s (hot) | 21s (cold) 12s (hot) | 19s (cold) 11s (hot) | 23s (cold) 13s (hot) | 21s (cold) 12s (hot) | 19s (cold) 11s (hot) |
| Noise level ² | 78.0 dB(A) | | | | | | |
| Efficiency (%) | 25% | | | | | | |
| | 50% | 95.4 | 92.5 | 92.6 | 92.6 | 93.4 | 93.4 |
| | 75% | 95.8 | 94.0 | 94.2 | 94.2 | 93.6 | 93.6 |
| | 100% | 95.8 | 95.6 | 95.6 | 95.6 | 93.7 | 93.6 |
| Power Factor | 25% | | | | | | |
| | 50% | 0.76 | 0.71 | 0.67 | 0.63 | 0.76 | 0.72 |
| | 75% | 0.83 | 0.81 | 0.78 | 0.75 | 0.82 | 0.80 |
| | 100% | 0.86 | 0.84 | 0.83 | 0.81 | 0.85 | 0.84 |
| Bearing type | | Drive end : 6319 C3 | Non drive end : 6316 C3 | Foundation loads | | | |
| Sealing | | Bearing Seal : Without | Bearing Seal : Without | Max. traction : 2062 kgf | | Max. compression : 2725 kgf | |
| Lubrication interval | | 20000 h | | | | | |
| Lubricant amount | | 45 g | | | | | |
| Lubricant type | | Mobil Polyrex EM | | | | | |
| Notes USABLE @208V 506A SF 1.15 SFA 582A | | | | | | | |
| 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 | | | | | | Page | Revision |
| Date | 06/02/2024 | | | | | 1 / 8 | |

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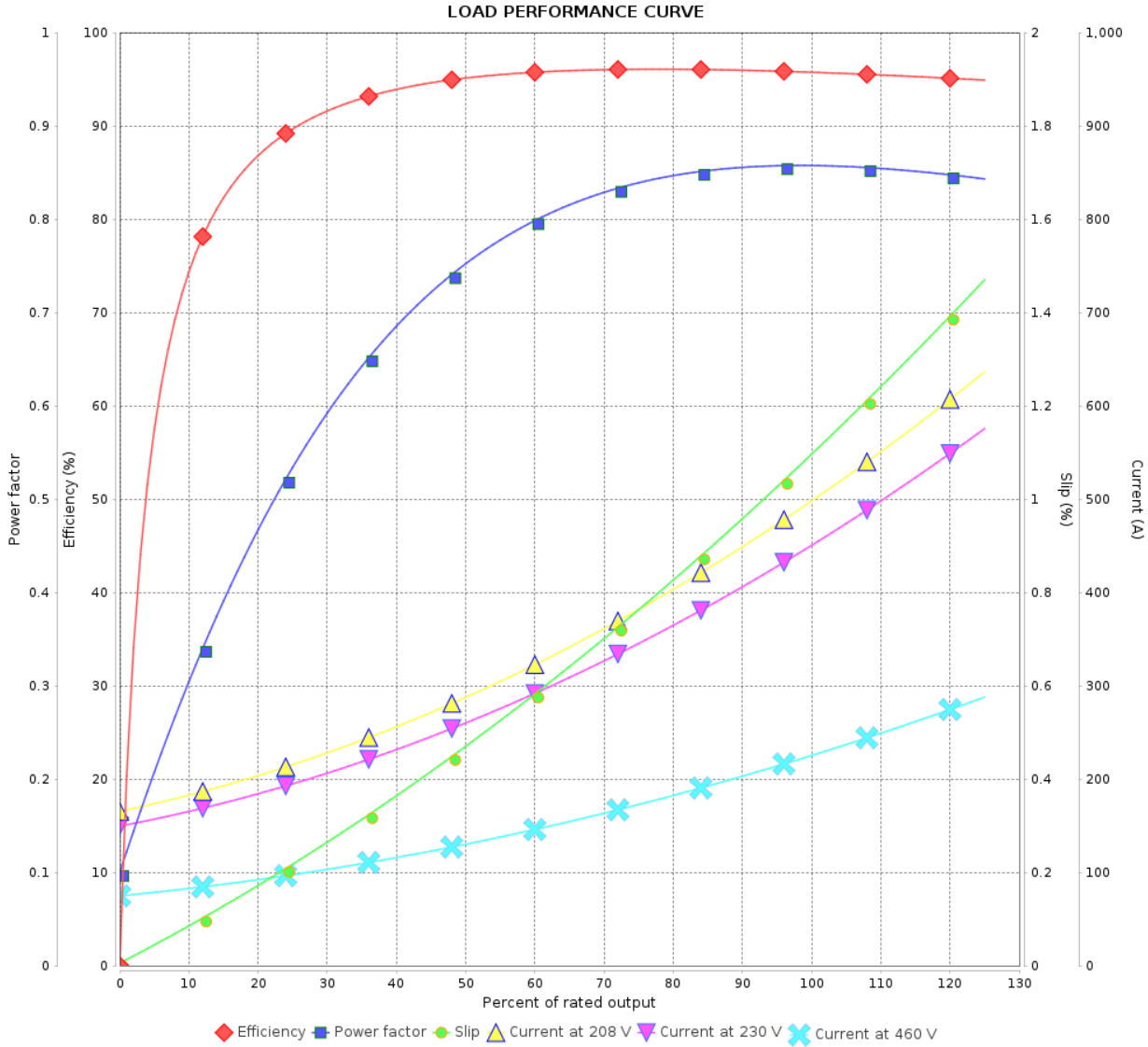
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 230/460 V 60 Hz 4P

Rated current : 458/229 A
 LRC : 6.1
 Rated torque : 81.5 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 2.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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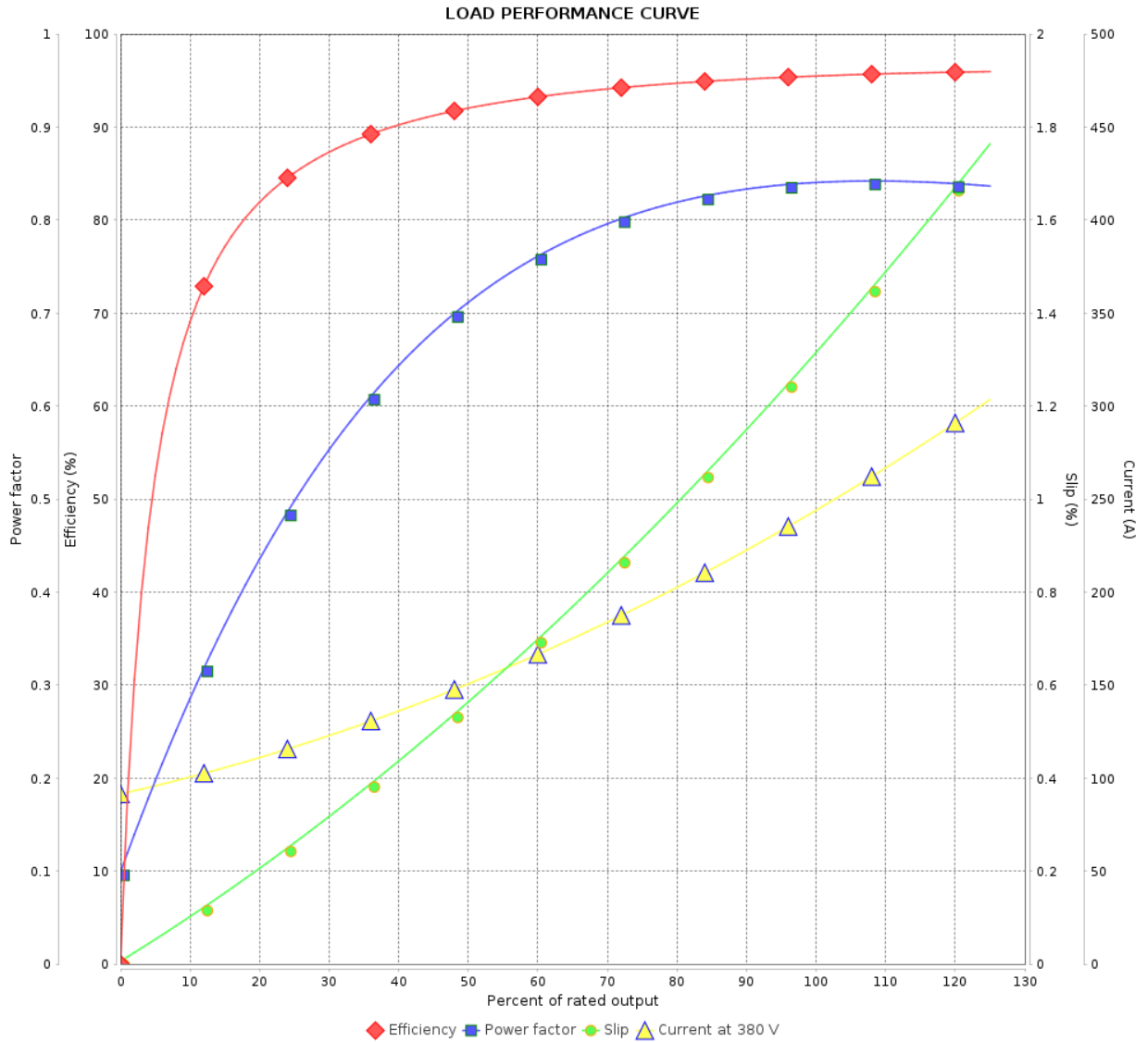
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 380 V 50 Hz 4P IE3

Rated current : 250 A
 LRC : 6.3
 Rated torque : 85.8 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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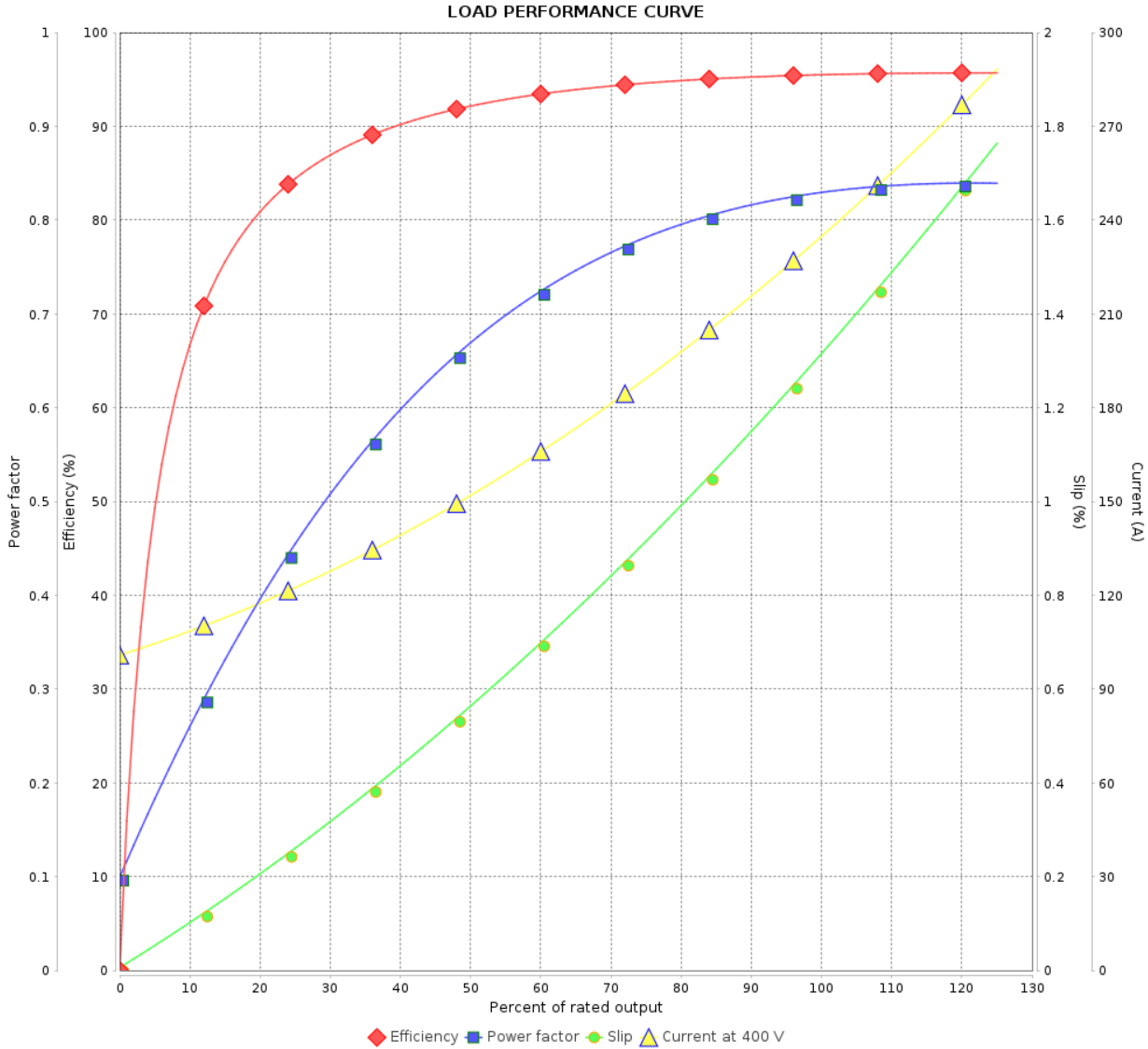
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-------------------------|
| Rated current | : 240 A | Moment of inertia (J) | : 2.09 kgm ² |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 85.8 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.15 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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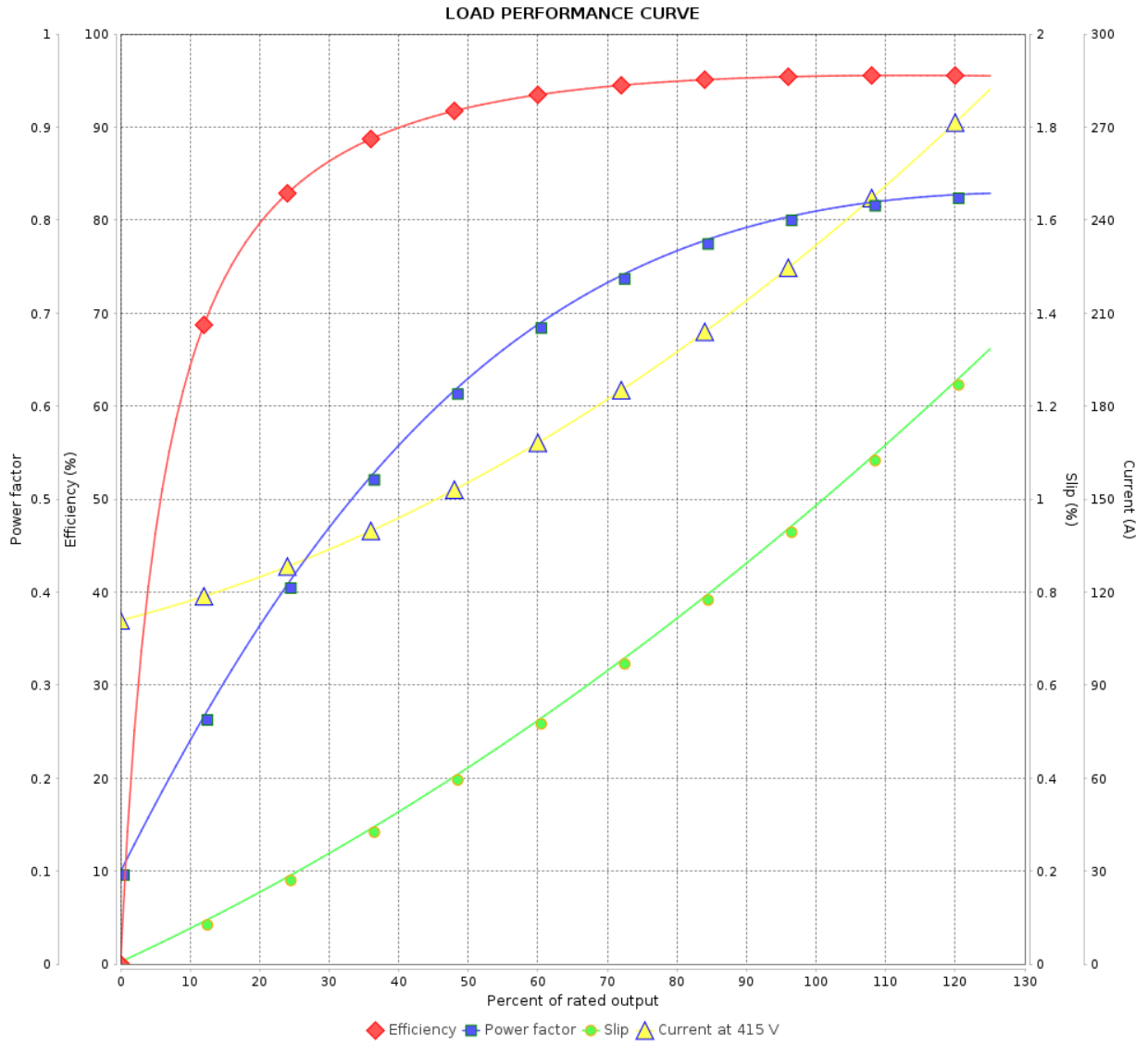
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 415 V 50 Hz 4P IE3

Rated current : 237 A
 LRC : 7.5
 Rated torque : 85.5 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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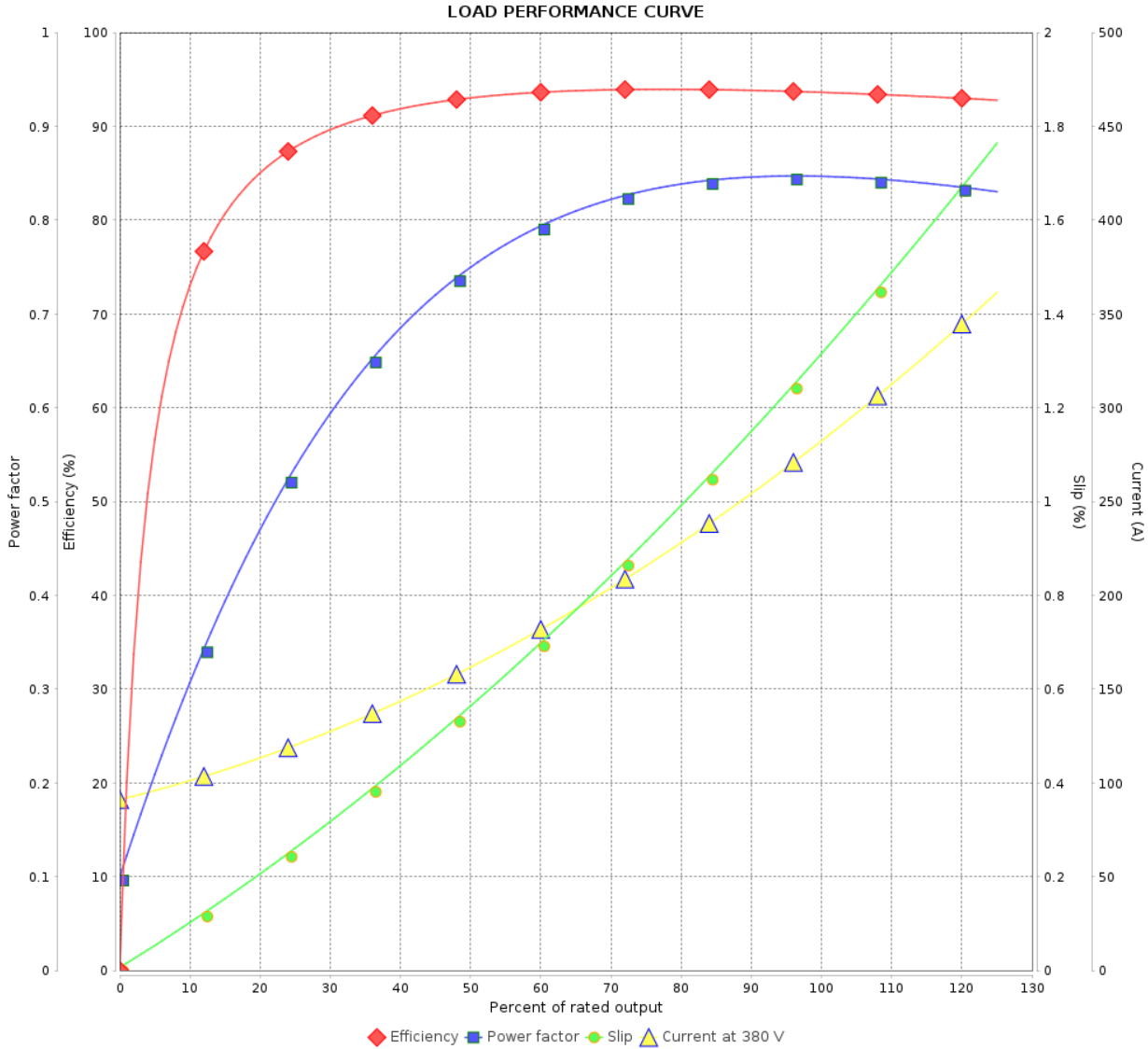
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 380 V 50 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-------------------------|
| Rated current | : 286 A | Moment of inertia (J) | : 2.09 kgm ² |
| LRC | : 5.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 98.1 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.15 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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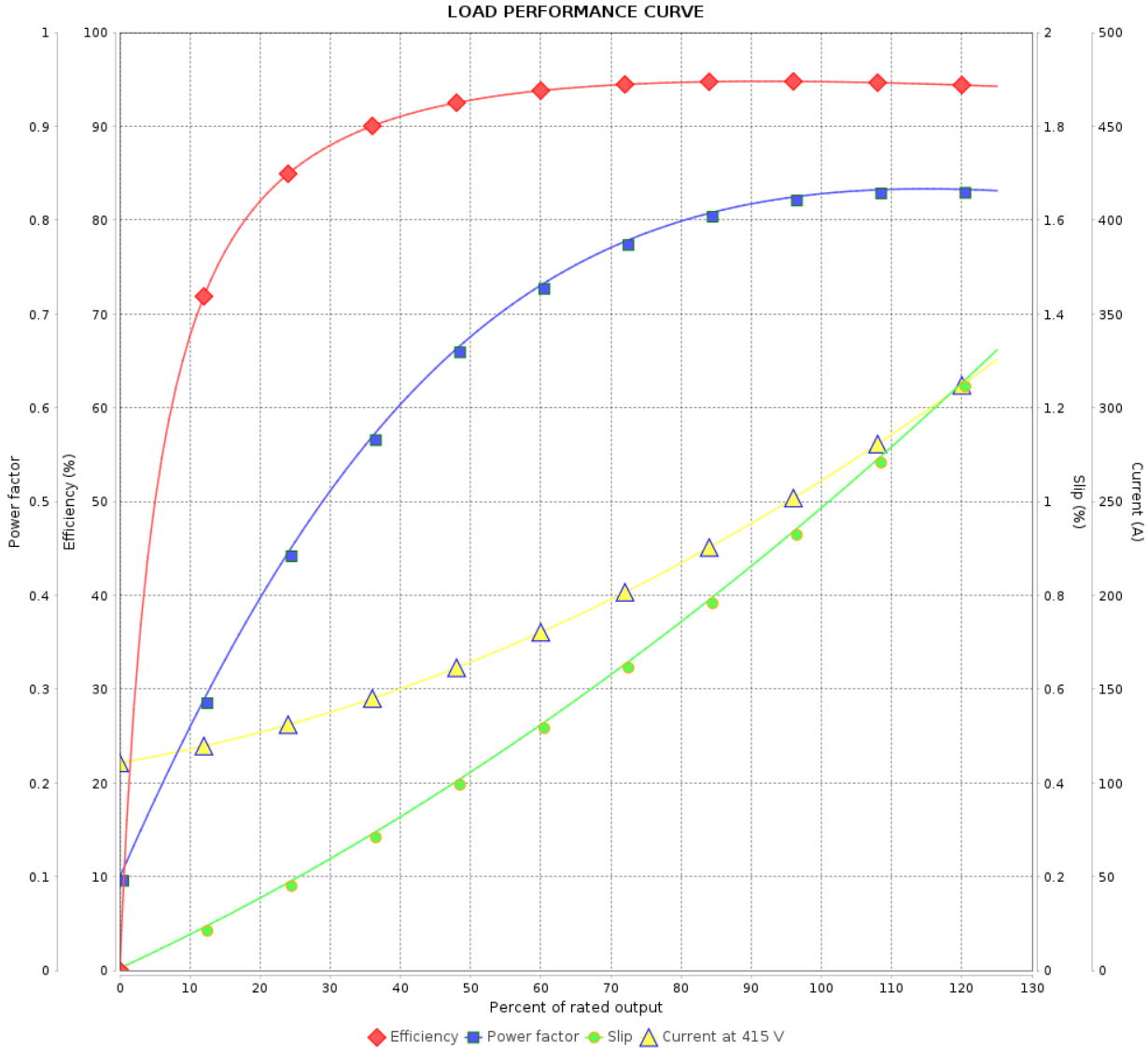
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11100128



Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-------------------------|
| Rated current | : 265 A | Moment of inertia (J) | : 2.09 kgm ² |
| LRC | : 6.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 97.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.15 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

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