### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11611915 Three-Phase : 182/4T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : 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 Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 42.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0094 kgm<sup>2</sup> Design : B Output [HP] 5 4 4 4 5 5 5 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 7.14 11.8/5.90 5.85 5.57 5.43 6.78 6.61 42.8 L. R. Amperes [A] 89.7/44.8 43.9 46.2 50.5 46.1 49.6 LRC [A] 7.6x(Code J) 7.5x(Code J) 8.3x(Code K) 9.3x(Code L) 6.0x(Code 6.8x(Code H) 7.5x(Code J) G) 2.00 No load current [A] 4.00/2.00 2.15 2.25 2.00 2.15 2.25 Rated speed [RPM] 3500 2900 2915 2920 2855 2880 2890 Slip [%] 2.78 3.33 2.83 2.67 4.83 4.00 3.67 Rated torque [kgfm] 1.04 1.00 0.996 0.994 1.27 1.26 1.26 Locked rotor torque [%] 229 220 250 270 180 210 220 Breakdown torque [%] 350 310 350 380 240 270 300 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 25s (cold) 23s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 28s (cold) 25s (cold) 18s (hot) 18s (hot) 18s (hot) 16s (hot) 14s (hot) 14s (hot) 13s (hot) Noise level<sup>2</sup> 66.0 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) 25% 0.000 0.000 50% 86.5 86.3 86.3 86.1 87.5 87.5 87.5 Efficiency (%) 75% 88.5 87.7 88.2 88.2 87.5 88.5 88.5 100% 88.5 87.5 88.3 88.3 86.5 87.5 87.5 25% 0.00 0.00 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 Power Factor 75% 0.85 0.83 0.81 0.88 0.87 0.85 0.85 100% 0.89 0.89 0.88 0.87 0.91 0.90 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.2 13.4 12.4 13.4 13.4 12.4 14.7 P2 (0,5;1,0) 10.1 11.1 10.3 10.3 12.1 11.1 11.1 P3 (0,25;1,0) 9.7 10.7 9.9 9.9 11.7 10.7 10.7 P4 (0,9;0,5) 5.9 6.5 6.1 6.1 7.1 6.5 6.5 Losses (%) P5 (0,5;0,5) 3.7 4.0 3.7 3.7 4.4 4.0 4.0 P6 (0,5;0,25) 2.5 2.3 2.5 2.3 2.3 2.7 2.5 P7 1.5 1.5 1.8 1.6 1.5 1.6 1.6 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 57 kgf Max. traction Sealing V'Ring V'Ring : 100 kgf Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 20/10/2024 1/9 Date

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
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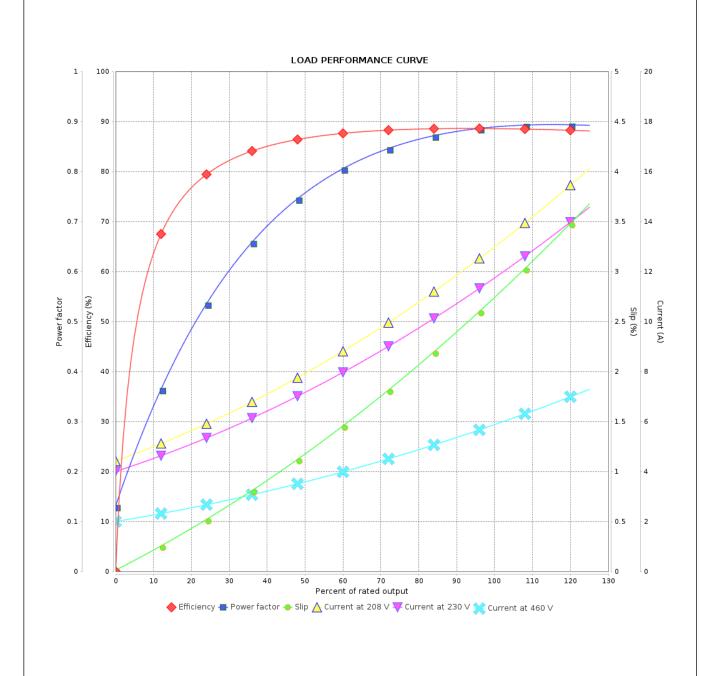
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11611915

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.8/5.90 A : 7.6 : 1.04 kgfm : 229 % : 350 % : 3500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

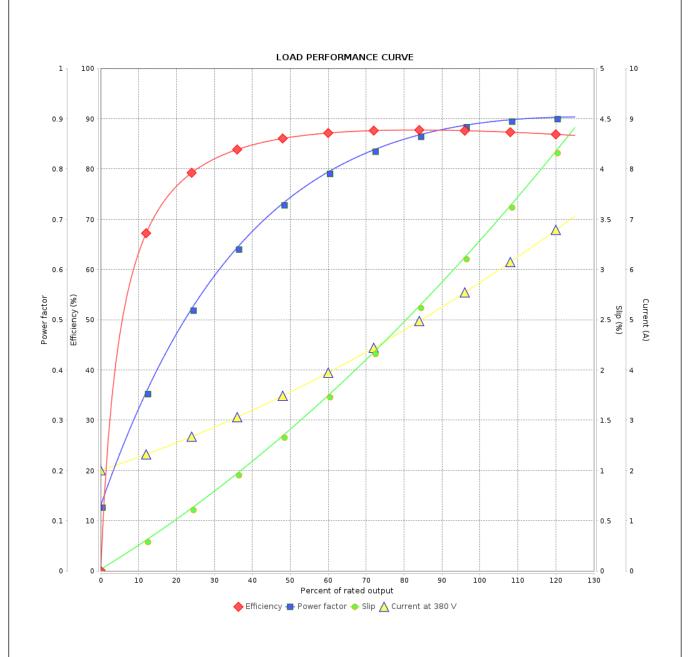
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11611915

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.85 A : 7.5 : 1.00 kgfm : 220 % : 310 % : 2900 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0094 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	
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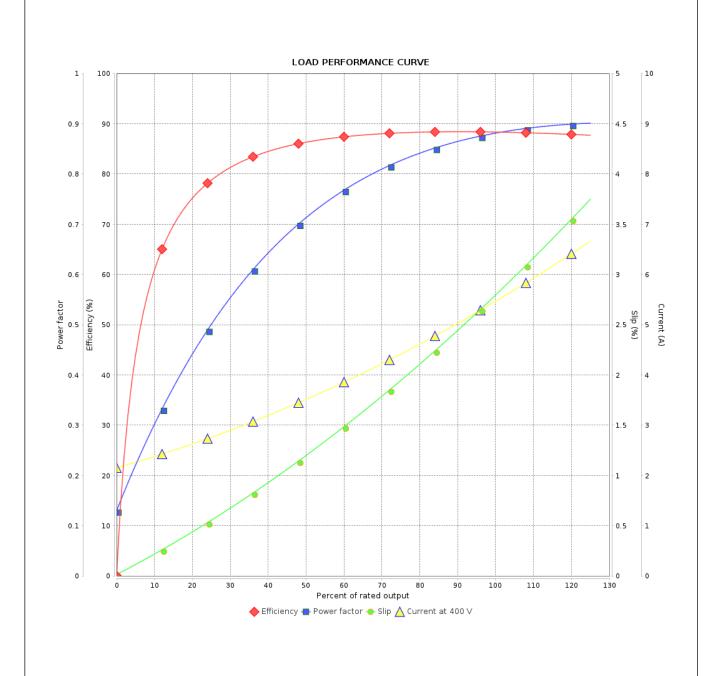
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11611915

Three-Phase



	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 5.57 A : 8.3 : 0.996 kgfm : 250 % : 350 %	Duty cycle Insulation Service fa Temperate	class ctor	: 0.0094 kgm : Cont.(S1) : F : 1.25 : 80 K	2
Rated speed	: 2915 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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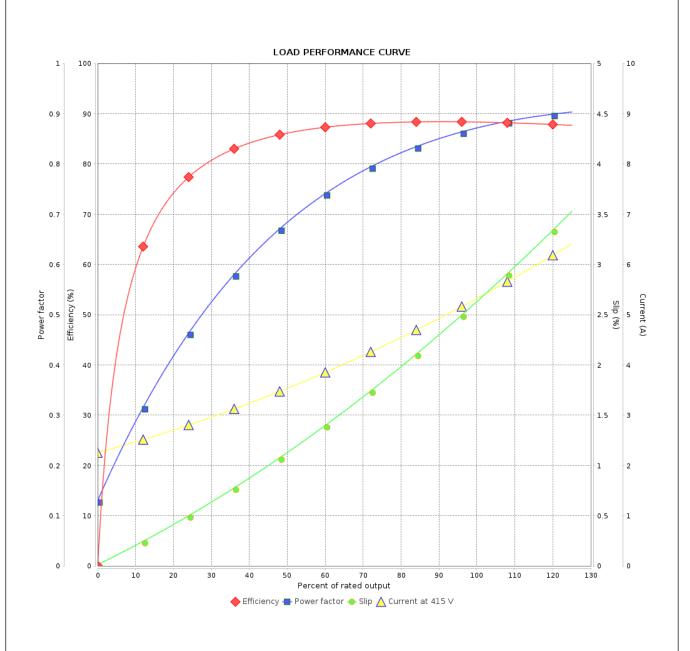
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11611915



Performance : 415 V 50 Hz 2P IE3 : 0.0094 kgm<sup>2</sup> Rated current : 5.43 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 9.3 : 0.994 kgfm Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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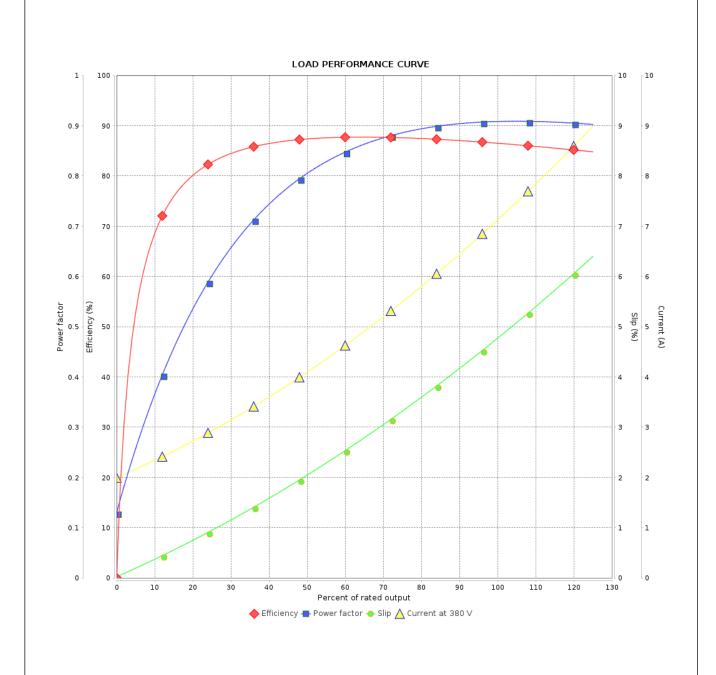
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11611915

Three-Phase



				,	
Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 7.14 A	Moment of	of inertia (J)	: 0.0094 kgm	2
LRC	: 6.0	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1.27 kgfm	Insulation	class	: F	
Locked rotor torque	: 180 %	Service fa	actor	: 1.25	
Breakdown torque	: 240 %	Temperat	ure rise	: 80 K	
Rated speed	: 2855 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

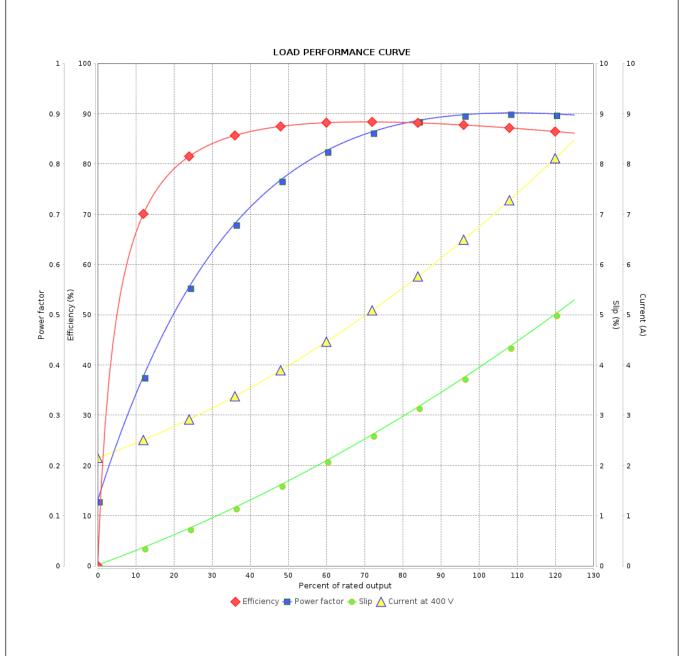


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11611915



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.78 A : 6.8 : 1.26 kgfm : 210 % : 270 % : 2880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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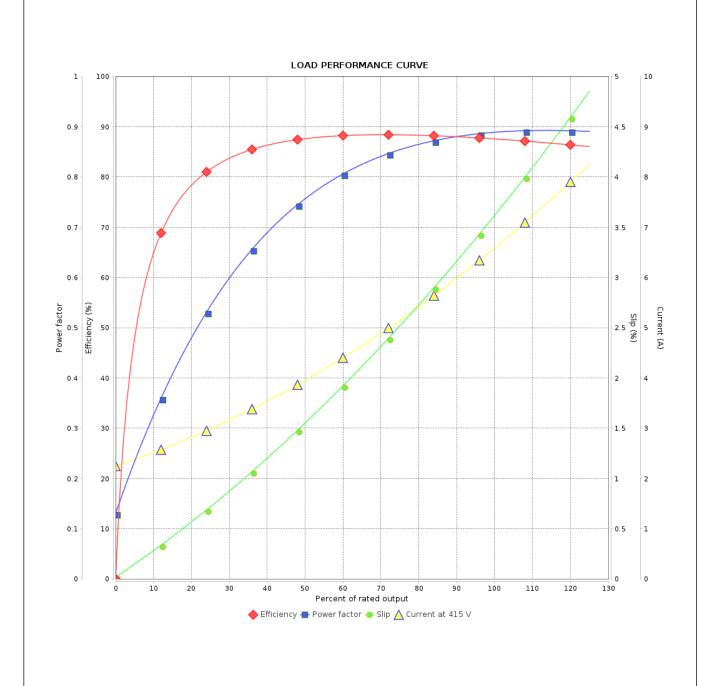
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11611915

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.61 A : 7.5 : 1.26 kgfm : 220 % : 300 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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