DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12446750 Three-Phase : 284/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 182 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.3310 kgm² Design : B Output [HP] 15 10 10 10 15 15 15 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 22.2 35.8/17.9 15.5 15.1 15.0 20.9 20.2 L. R. Amperes [A] 233/116 112 119 124 104 111 117 LRC [A] 6.5x(Code 7.2x(Code J) 7.9x(Code K) 8.3x(Code K) 4.7x(Code E) 5.3x(Code F) 5.8x(Code G) G) No load current [A] 7.50 14.8/7.40 7.50 8.00 8.50 8.00 8.50 Rated speed [RPM] 1175 980 985 985 965 970 975 Slip [%] 2.08 2.00 1.50 1.50 3.50 3.00 2.50 Rated torque [kgfm] 9.26 7.41 7.37 7.37 11.3 11.2 11.2 Locked rotor torque [%] 229 270 300 330 170 200 220 Breakdown torque [%] 240 290 340 360 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.15 1.15 Temperature rise 80 K 27s (cold) 27s (cold) Locked rotor time 36s (cold) 55s (cold) 50s (cold) 46s (cold) 27s (cold) 20s (hot) 31s (hot) 28s (hot) 26s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 59.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 89.0 89.1 89.1 91.0 90.2 90.2 Efficiency (%) 75% 91.7 89.4 89.5 89.5 90.2 90.2 91.0 100% 91.7 89.4 89.5 89.5 88.5 89.5 90.2 25% 50% 0.69 0.64 0.61 0.58 0.73 0.72 0.70 Power Factor 75% 0.80 0.76 0.73 0.71 0.82 0.81 0.80 100% 0.84 0.82 0.80 0.78 0.85 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.5 11.0 11.2 8.9 8.8 11.0 9.2 P2 (0,5;1,0) 6.8 8.8 8.8 8.9 7.3 7.1 7.0 P3 (0,25;1,0) 6.4 8.2 8.2 8.3 6.9 6.7 6.6 P4 (0,9;0,5) 5.1 6.6 6.6 6.7 5.5 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 4.4 4.4 4.5 3.7 3.6 3.5 P6 (0,5;0,25) 2.6 3.4 3.4 3.5 2.8 2.8 2.7 P7 2.4 2.4 2.4 2.0 1.9 1.9 1.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6311 C3 6211 C3 : 292 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 474 kgf Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 q 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 13/11/2025 1/9 Date

DATA SHEET

Checked by

Date

13/11/2025



Three Pha	se Inductio	n Motor - Squir	rel Cage			ШЕЦ
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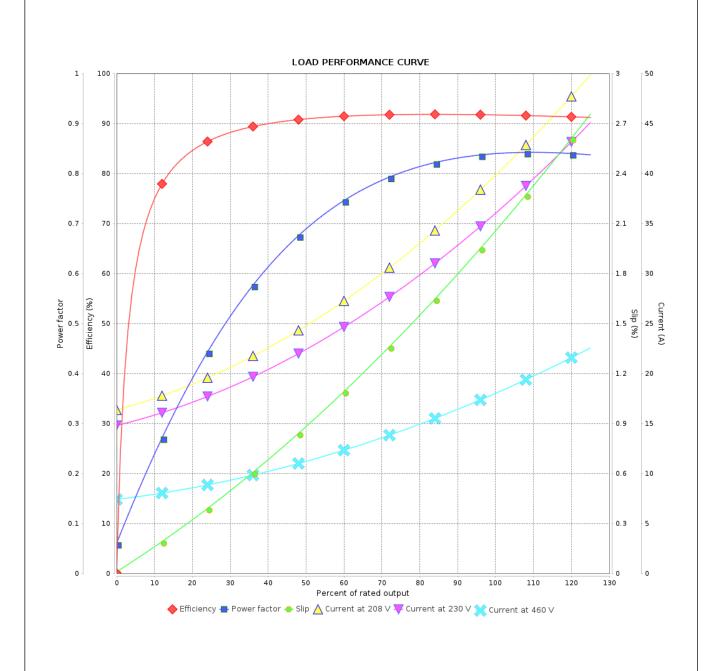
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance : 230/460 V 60 Hz 6P : 35.8/17.9 A Rated current Moment of inertia (J) : 0.3310 kgm² **LRC** : 6.5 Duty cycle : Cont.(S1) : 9.26 kgfm Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K · 1175 rpm Rated speed Design · R

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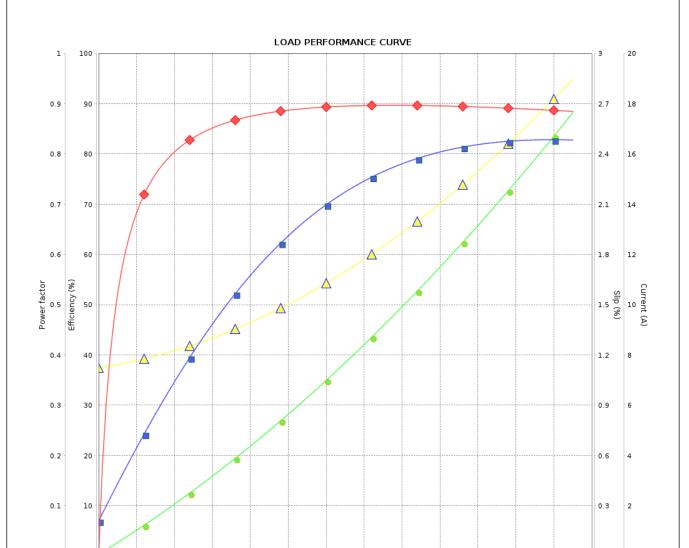
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Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 38	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 7. que : 29 ue : 29	5.5 A 2 41 kgfm 70 % 90 % 80 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 0.3310 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Percent of rated output

◆ Efficiency - Power factor - Slip A Current at 380 ∨

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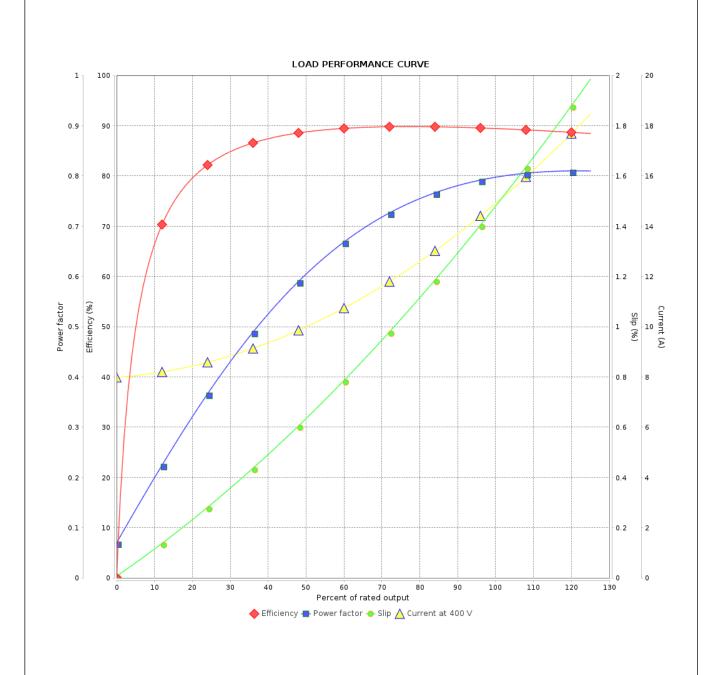
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance	: 400 V 50 Hz 6	P IE3				
Rated current	: 15.1 A	ı	Moment of inertia (J)		2	
LRC	: 7.9	Duty cycle		: Cont.(S1)		
Rated torque	: 7.37 kgfm	Insulation of	Insulation class			
Locked rotor tord	que : 300 %	Service fac	Service factor		: 1.25	
Breakdown torqu	ıe : 340 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design	Design			
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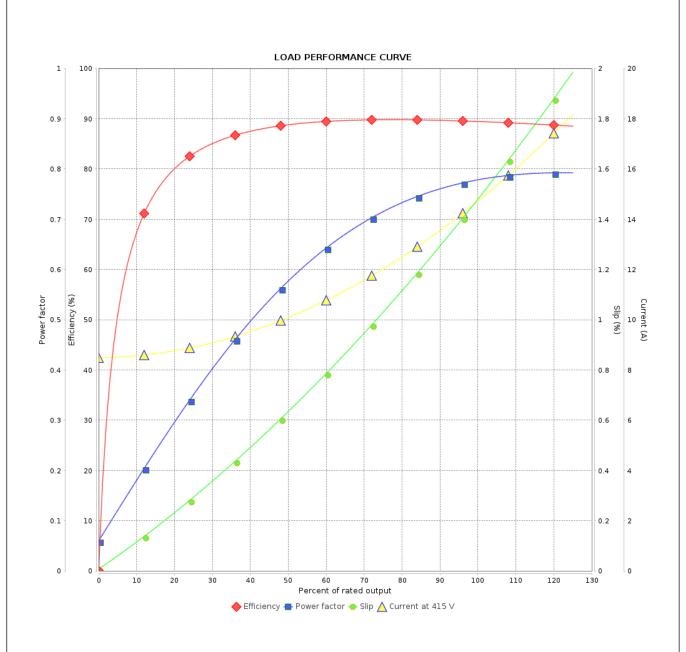
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12446750

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.0 A : 8.3 : 7.37 kgfm : 330 % : 360 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.3310 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	2
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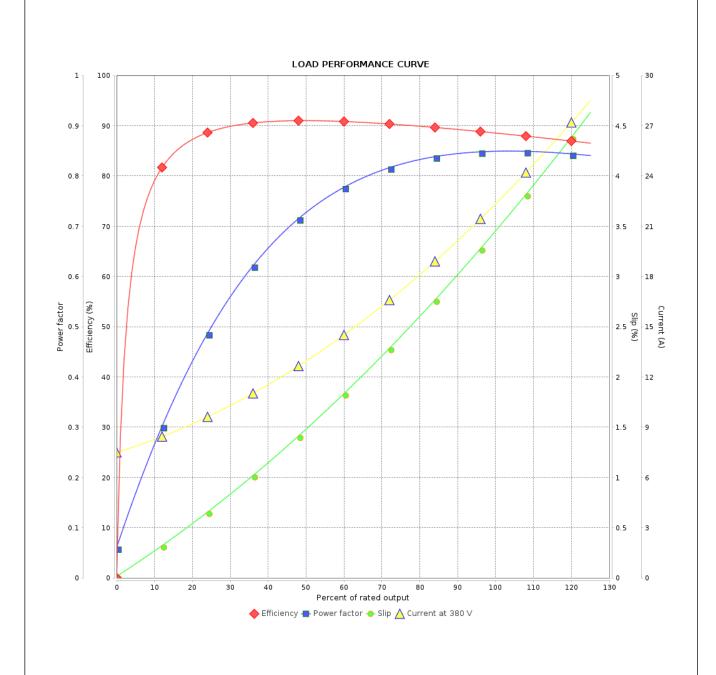
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Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Pay	Changas Summary		Dorformed	Chooked	Doto
Rated speed	: 965 rpm	Design		: B	
Breakdown torque	: 200 %	Temperat	ure rise	: 80 K	
Locked rotor torque	: 170 %	Service fa	actor	: 1.00	
Rated torque	: 11.3 kgfm	Insulation	class	: F	
LRC	: 4.7	Duty cycle	Э	: Cont.(S1)	
Rated current	: 22.2 A	Moment of	of inertia (J)	: 0.3310 kgm	2
Performance	: 380 V 50 Hz 6P IE1				
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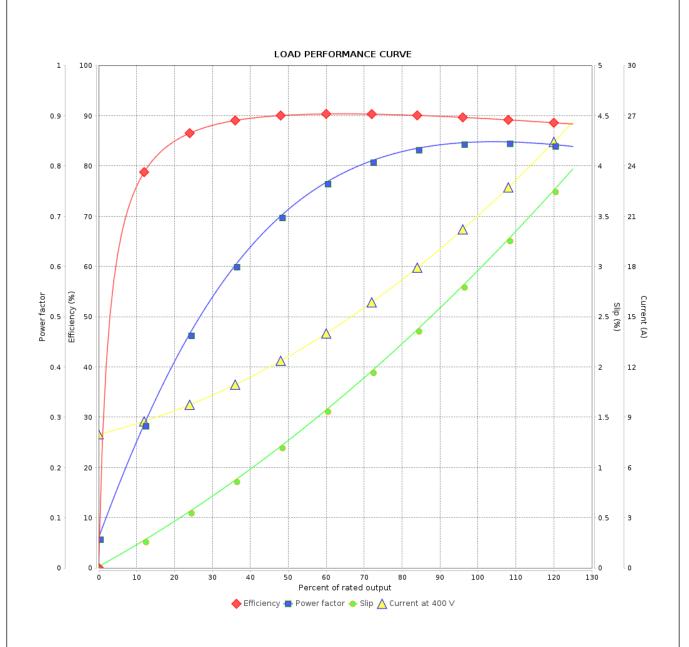


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance		: 400 V 50 Hz 6P IE2				
Rated current : 20.9 A Moment of inertia (J) LRC : 5.3 Duty cycle		` '	: 0.3310 kgm² : Cont.(S1)			
Rated torque : 11.2 kgfm Insulation class Locked rotor torque : 200 % Service factor						
Breakdown torqu Rated speed	ie	: 220 % : 970 rpm	Design	ure rise	: 80 K	
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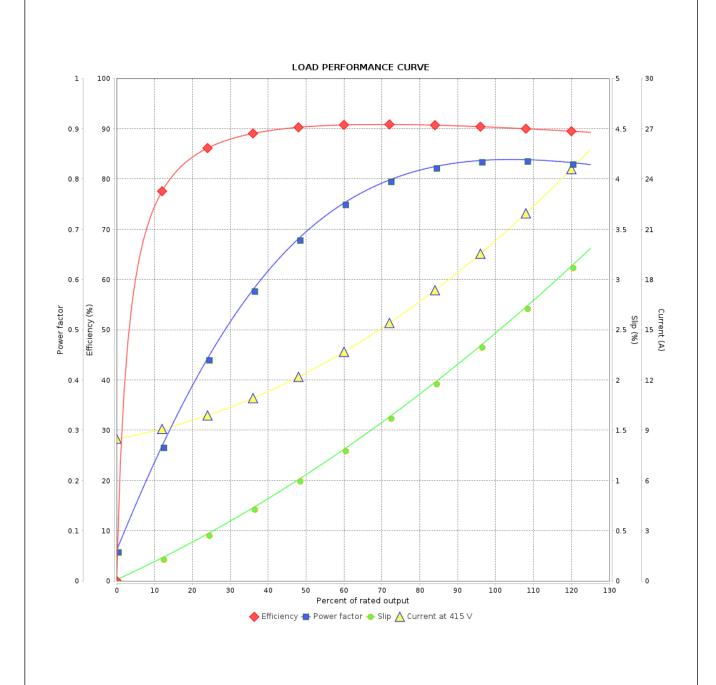
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance	: 415 V 50 Hz 6P IE2				
Rated current	: 20.2 A	Moment of inertia (J)		: 0.3310 kgm²	
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 11.2 kgfm	Insulation class		:F	
Locked rotor torque	: 220 %	Service factor		: 1.15	
Breakdown torque	: 240 %	Temperat	ure rise	: 80 K	
Rated speed	: 975 rpm	Design		: B	
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