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] 22.0 35.8/17.9 15.5 15.1 15.0 20.9 20.2 L. R. Amperes [A] 229/115 112 119 124 103 111 117 6.4x(Code LRC [A] 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] 7.70 7.00 7.40 14.0/7.00 7.00 7.40 7.70 Rated speed [RPM] 1175 980 985 985 970 975 975 3.00 Slip [%] 2.08 2.00 1.50 1.50 2.50 2.50 Rated torque [kgfm] 9.26 7.41 7.37 7.37 11.2 11.2 11.2 Locked rotor torque [%] 229 270 300 330 170 200 220 Breakdown torque [%] 260 300 340 360 200 229 250 1.00 Service factor 1.25 1.25 1.25 1.25 1.15 1.15 Temperature rise 80 K Locked rotor time 36s (cold) 57s (cold) 52s (cold) 48s (cold) 27s (cold) 27s (cold) 27s (cold) 20s (hot) 32s (hot) 29s (hot) 27s (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 0.75 0.72 0.70 Power Factor 75% 0.80 0.76 0.73 0.71 0.83 0.81 0.80 100% 0.84 0.82 0.80 0.78 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 11.2 11.1 10.3 11.1 11.1 12.3 P2 (0,5;1,0) 6.9 9.1 9.0 9.0 10.0 9.0 8.3 P3 (0,25;1,0) 6.2 8.1 8.0 8.0 8.9 8.0 7.4 P4 (0,9;0,5) 4.3 5.6 5.6 5.6 6.2 5.6 5.2 Losses (%) P5 (0,5;0,5) 2.8 3.6 3.6 3.6 4.0 3.6 3.3 P6 (0,5;0,25) 2.6 1.8 2.4 2.4 2.4 2.4 2.2 P7 1.2 1.6 1.6 1.5 1.6 1.8 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 308 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 490 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 09/05/2025 1/9 Date

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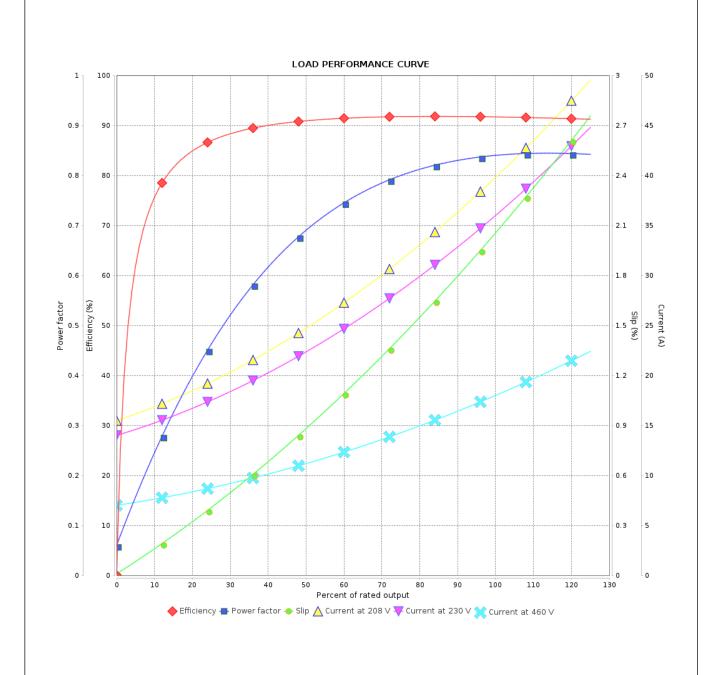
Three Phase Induction Motor - Squirrel Cage



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** : 6.4 Duty cycle : Cont.(S1) : F Rated torque : 9.26 kgfm Insulation class Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage

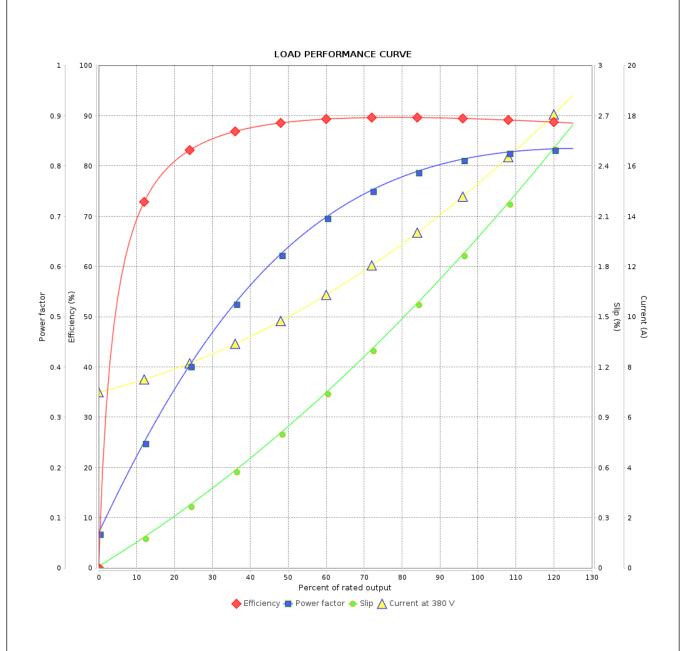


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.5 A : 7.2 : 7.41 kgfm : 270 % : 300 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3310 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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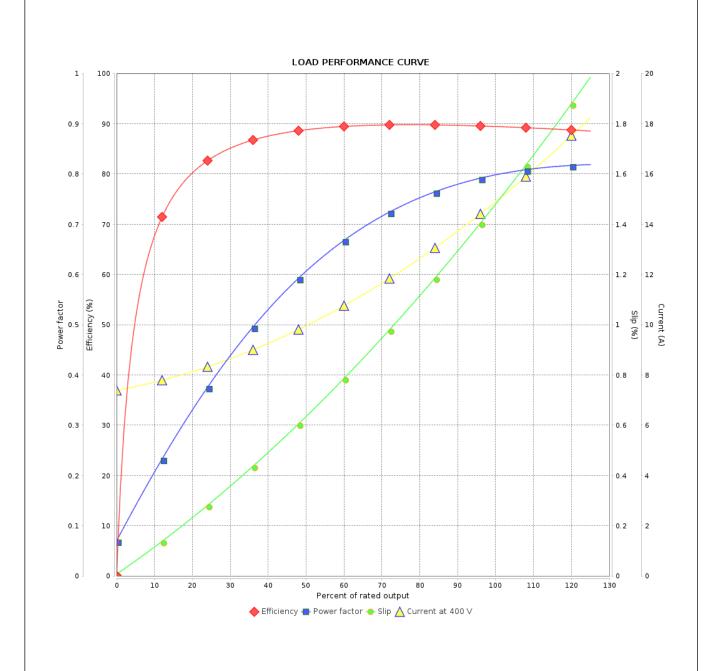
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.1 A : 7.9 : 7.37 kgfm : 300 % : 340 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3310 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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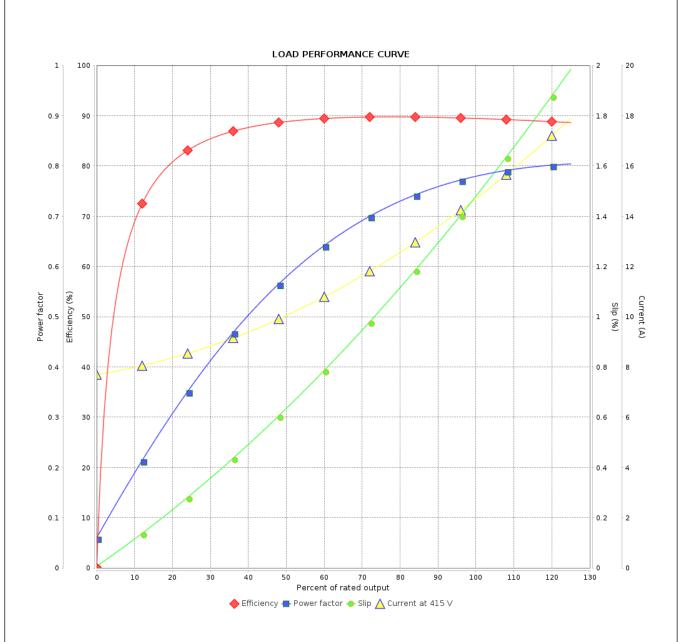
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750





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Performance	: 4	415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 7 que : 3 ue : 3	15.0 A 3.3 7.37 kgfm 330 % 360 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.3310 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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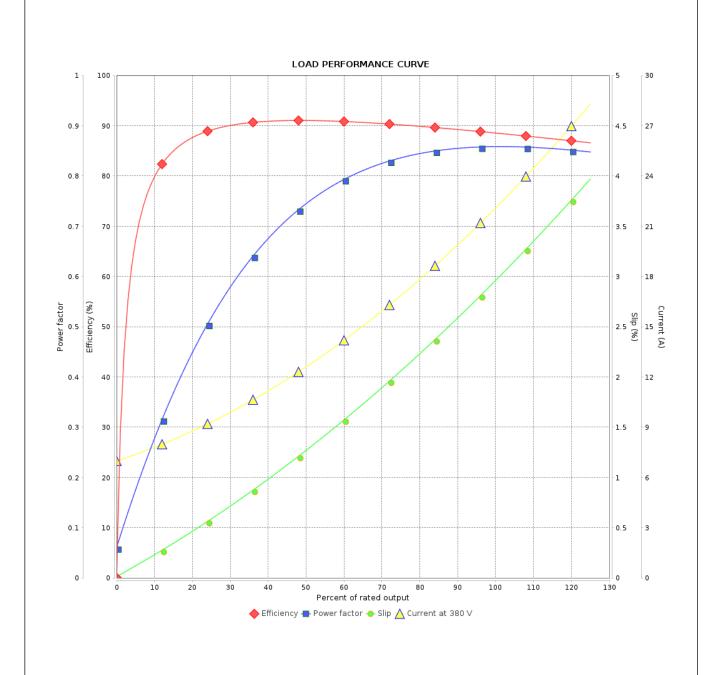
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 22.0 A	Moment of	of inertia (J)	: 0.3310 kgm	2
LRC		: 4.7	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 11.2 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 170 %	Service fa	ector	: 1.00	
Breakdown torqu	ıe	: 200 %	Temperat	ure rise	: 80 K	
Rated speed		: 970 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

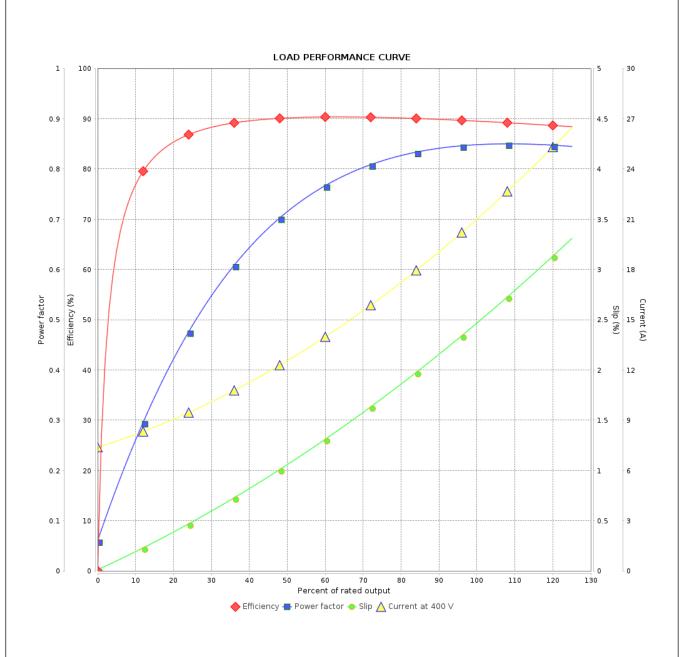


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 400 V 50 Hz 6P IE2				
Rated current	: 20.9 A	Moment o	f inertia (J)	: 0.3310 kgm²	
LRC	: 5.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 11.2 kgfm	Insulation	class	: F ` ´	
Locked rotor torque : 200 %		Service factor		: 1.15	
Breakdown torque	: 229 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 975 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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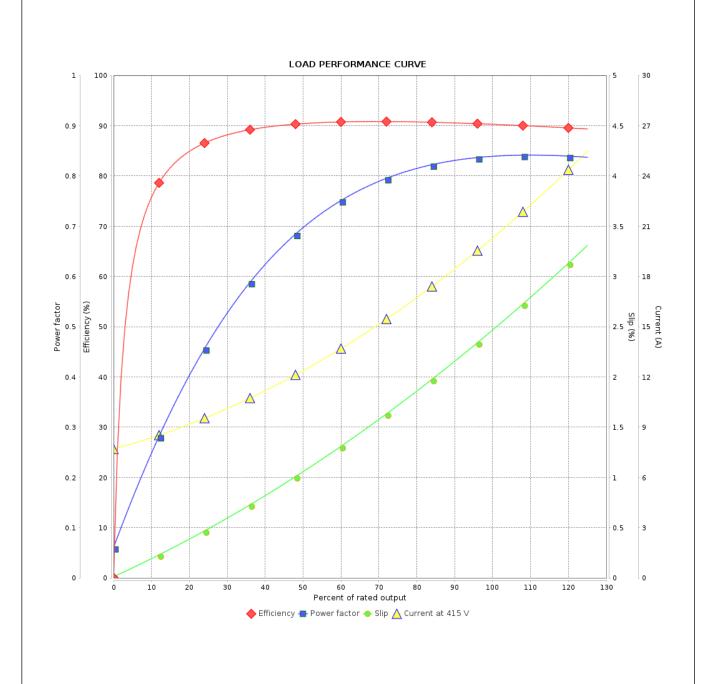
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Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.2 A : 5.8 : 11.2 kgfm : 220 % : 250 % : 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3310 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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