DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456825 Three-Phase : 143/5TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : 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 : 25.3 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm² Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 3.46/1.73 1.60 1.62 1.66 1.96 1.94 1.95 L. R. Amperes [A] 9.41 21.5/10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 2.20/1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 0.66 100% 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 48 kgf Max. traction Sealing V'Ring V'Ring : 73 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 13/07/2025 1/9 Date

DATA SHEET



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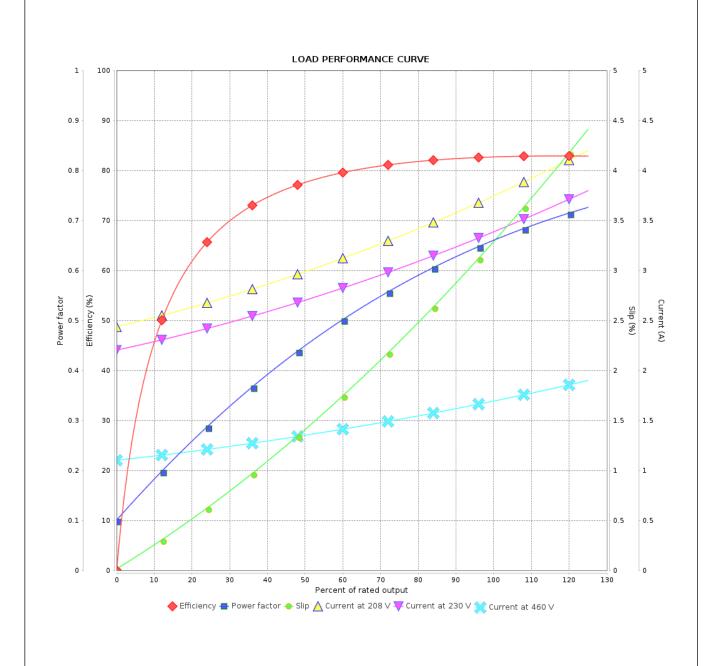
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456825

Three-Phase



Performance : 230/460 V 60 Hz 6P		
Rated current : 3.46/1.73 A Moment of inertia (J) LRC : 6.2 Duty cycle	: 0.0067 kgm : Cont.(S1)	l ²
Rated torque : 0.626 kgfm Insulation class	: F ` ´	
Locked rotor torque : 260 % Service factor Breakdown torque : 300 % Temperature rise	: 1.25 : 80 K	
Rated speed : 1160 rpm Design	: B	
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Three Phase Induction Motor - Squirrel Cage

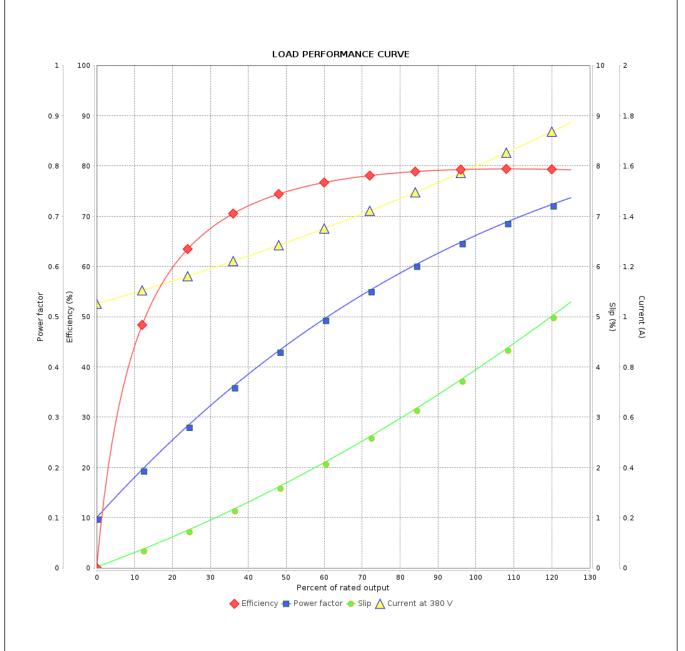


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456825



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC	: 1.60 A : 5.8	Moment of inertia (J) Duty cycle		: 0.0067 kgm² : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 0.567 kgfm : 280 % : 310 %	Insulation class Service factor Temperature rise Design		: F : 1.00 : 80 K : B	
Rated speed	: 960 rpm				
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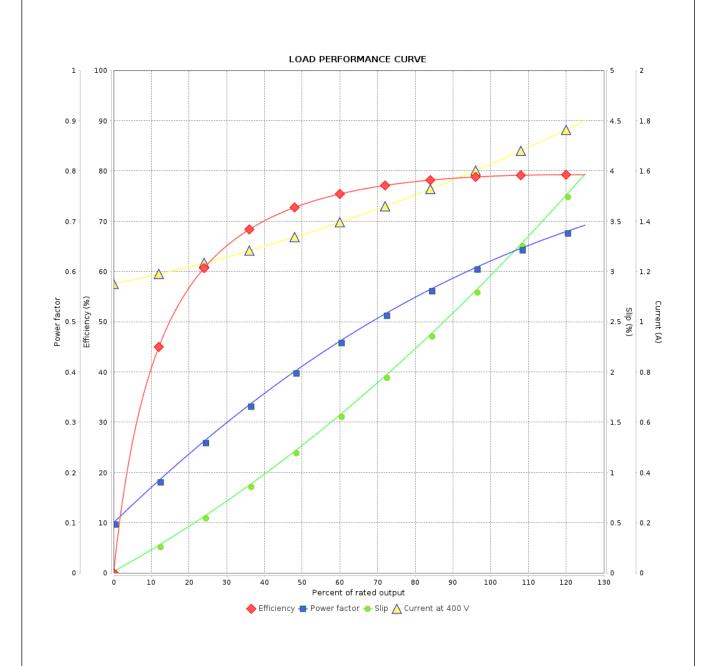
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456825

Three-Phase



Performance	: 400 V 50 Hz 6P IE3						
Rated current	: 1.62 A	Moment of inertia (J)				: 0.0067 kgm	2
LRC	: 6.1	Duty cycle		: Cont.(S1)			
Rated torque	: 0.561 kgfm	Insulation class		: F			
Locked rotor torque	: 300 %	Service factor		: 1.00			
Breakdown torque	: 330 %	Temperat	ure rise	: 80 K			
Rated speed	: 970 rpm	Design		: B			
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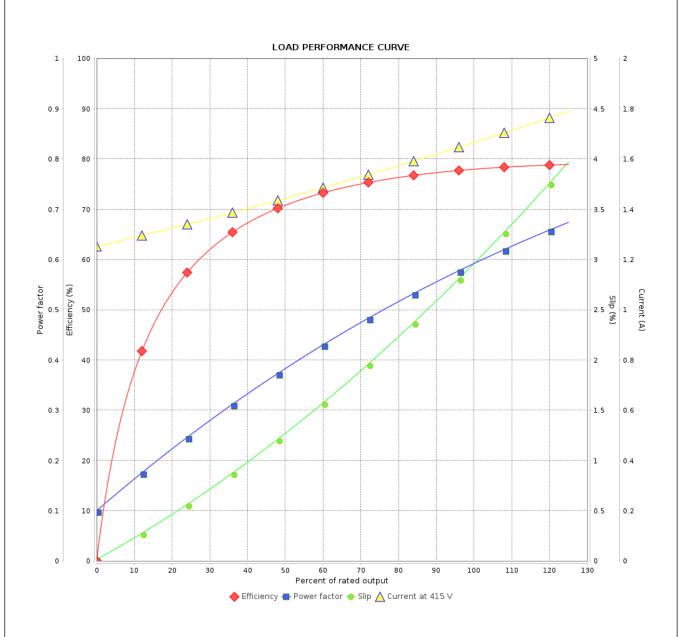


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456825



Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 6.3 : 0.561 kgfm : 320 % : 340 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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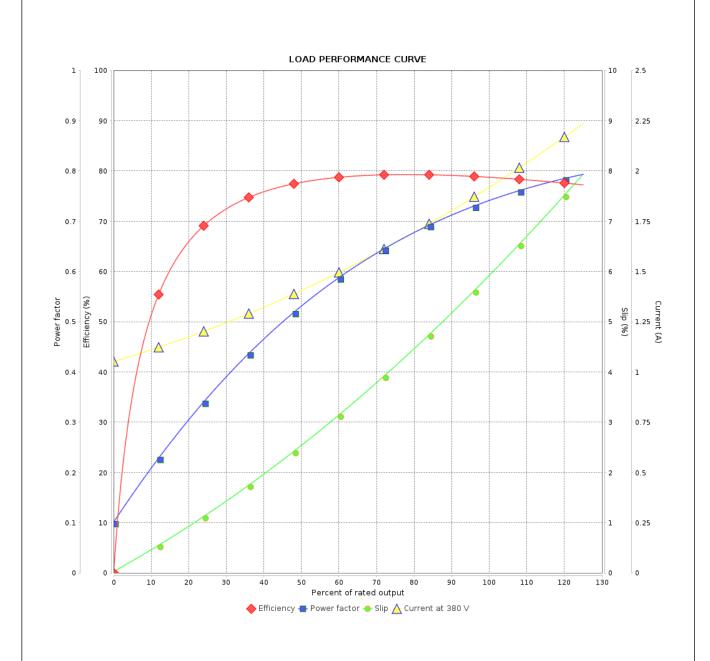
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Product line : W22 NEMA Premium Efficiency Product code : 11456825

Three-Phase



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.96 A : 4.8 : 0.772 kgfm : 200 % : 220 % : 940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

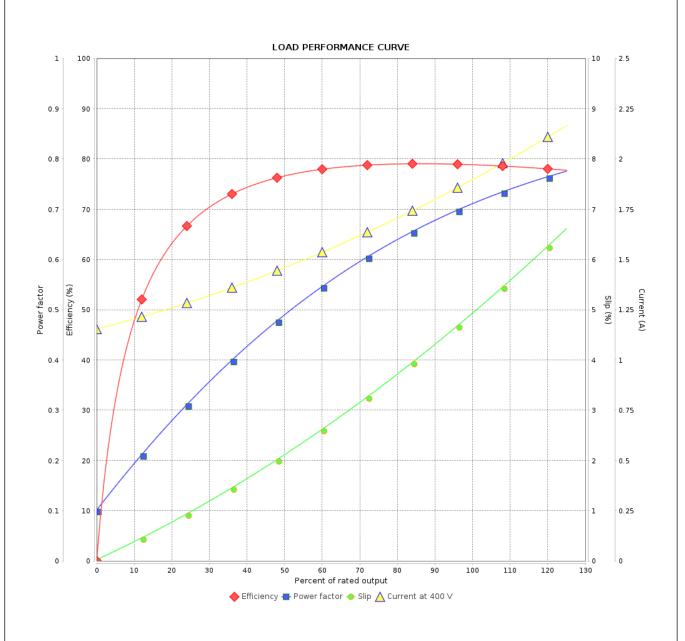


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456825



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.94 A : 5.2 : 0.764 kgfm : 229 % : 260 % : 950 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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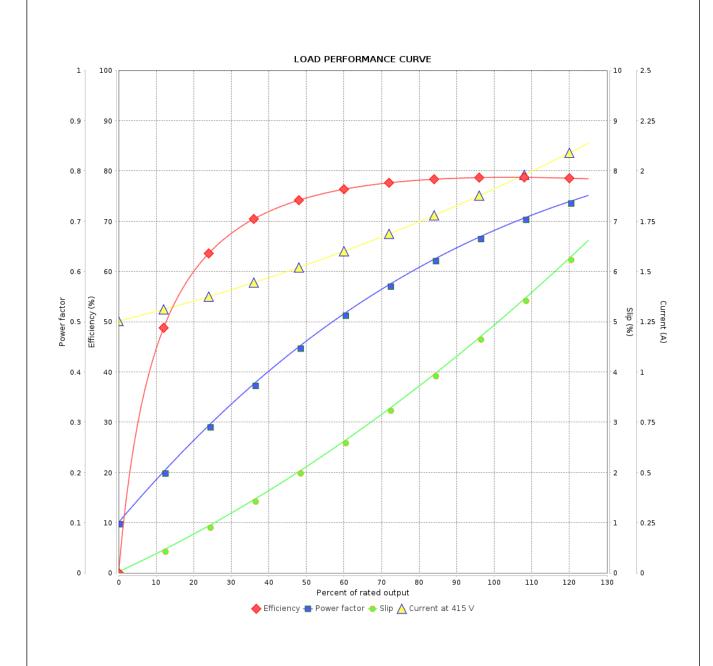
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456825

Three-Phase



Performance	: 415	5 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 250 e : 280	64 kgfm) %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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