DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12445775 Three-Phase Frame : 254/6TC Cooling method : 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 : 1000 m.a.s.l. Approx. weight³ Altitude : 123 kg Protection degree : IP55 Moment of inertia (J) : 0.1652 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 19.5/9.73 11.6 11.1 11.0 L. R. Amperes [A] 132/66.2 60.2 64.6 68.3 LRC [A] 6.8x(Code H) 5.2x(Code F) 5.8x(Code G) 6.2x(Code H) No load current [A] 10.6/5.30 5.10 5.50 5.80 Rated speed [RPM] 1178 970 975 975 Slip [%] 1.83 3.00 2.50 2.50 Rated torque [kgfm] 4.62 5.61 5.58 5.58 Locked rotor torque [%] 250 170 200 220 Breakdown torque [%] 300 220 240 260 Service factor 1.25 1.00 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 48s (cold) 27s (hot) Locked rotor time 54s (cold) 30s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 89.5 87.5 87.5 87.5 Efficiency (%) 75% 90.2 88.0 88.0 88.0 100% 91.0 88.0 88.0 88.0 25% 50% 0.60 0.67 0.64 0.61 Power Factor 75% 0.71 0.77 0.75 0.73 0.78 0.82 0.81 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 9.7 13.4 P2 (0,5;1,0) 8.2 11.4 11.4 11.4 P3 (0,25;1,0) 10.5 7.6 10.5 10.5 P4 (0,9;0,5) 7.3 7.3 Losses (%) 5.3 7.3 P5 (0,5;0,5) 3.7 5.1 5.1 5.1 P6 (0,5;0,25) 2.7 3.7 3.7 3.7 P7 (0,25;0,25) 2.0 2.8 2.8 2.8 Non drive end Foundation loads Drive end Bearing type 6309 C3 6209 C3 Max. traction : 167 kgf Sealing V'Ring V'Ring Max. compression : 289 kgf 20000 h Lubrication interval 20000 h Lubricant amount 13 q 9 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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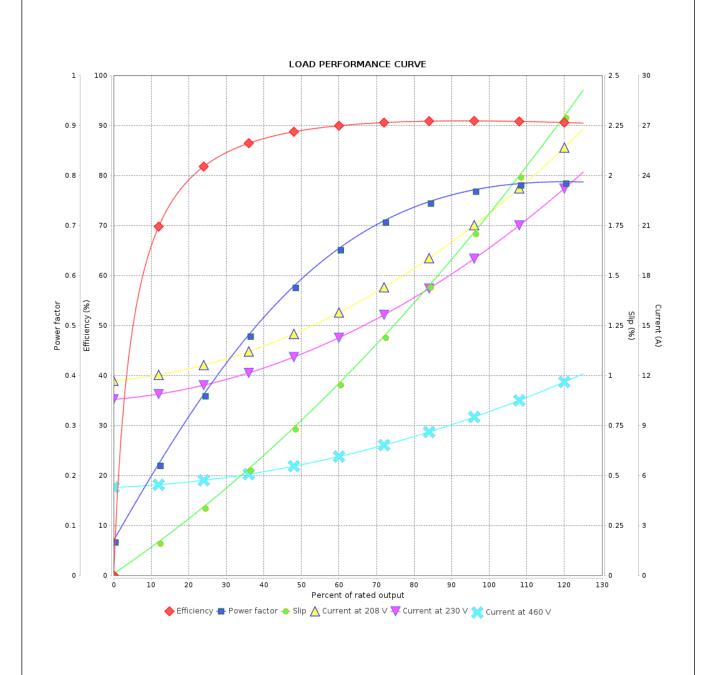
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12445775

Three-Phase



Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	•	: 19.5/9.73 A : 6.8 : 4.62 kgfm : 250 % : 300 % : 1178 rpm	Moment of Duty cycl Insulation Service for Temperations	ı class actor	: 0.1652 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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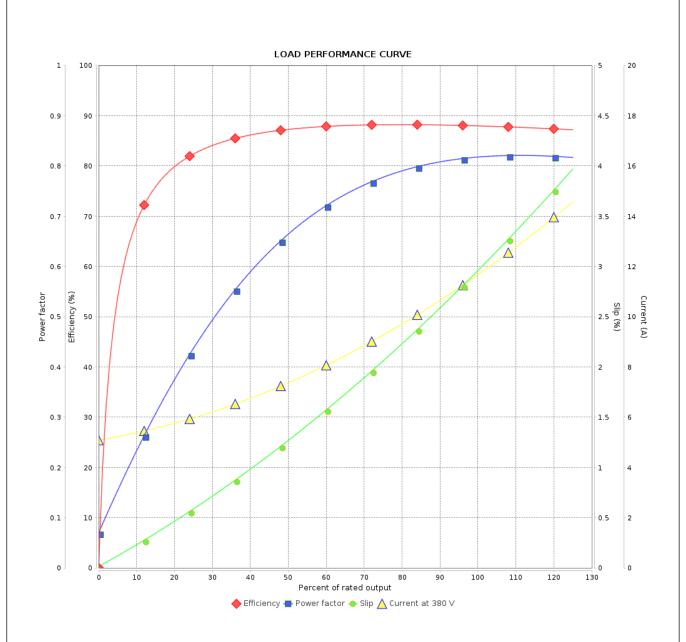
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12445775





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Performance	. sc	30 V 50 Hz 6P IE3				
Rated current	: 11	.6 A	Moment of	Moment of inertia (J)		
LRC :		2	Duty cycle	Duty cycle		
Rated torque		61 kgfm	Insulation class		: F	
Locked rotor torg	ue : 17	70 %	Service factor		: 1.00	
Breakdown torqu	ie : 22	20 %	Temperature rise		: 80 K	
Rated speed : 970 rpm		Design		: B		
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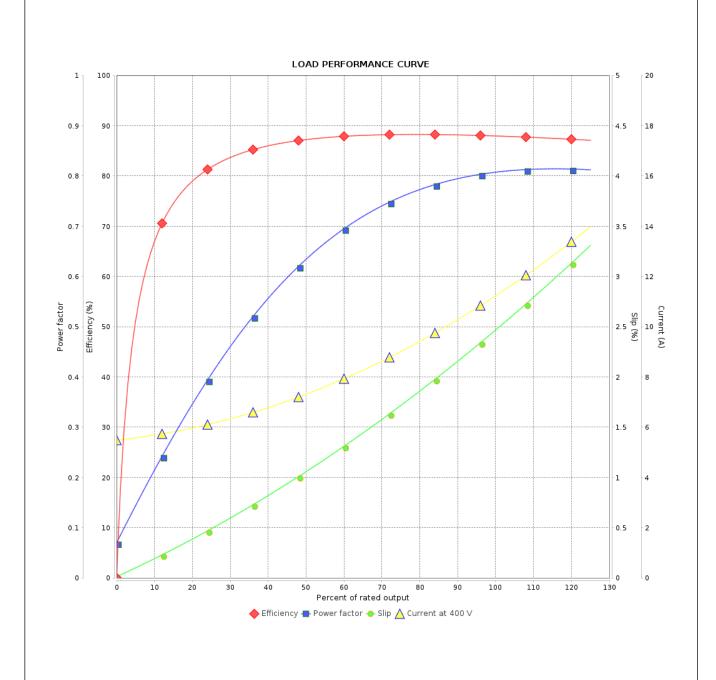
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12445775

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 11.1 A	Moment o	of inertia (J)	: 0.1652 kgm	2
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 5.58 kgfm	Insulation	Insulation class		
Locked rotor torq	ue : 200 %	Service fa	Service factor :		
Breakdown torqu	e : 240 %	Temperature rise		: 80 K	
Rated speed	: 975 rpm	Design		: B	
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Raied speed	: 9	75 rpm	Design		. B	
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Three Phase Induction Motor - Squirrel Cage



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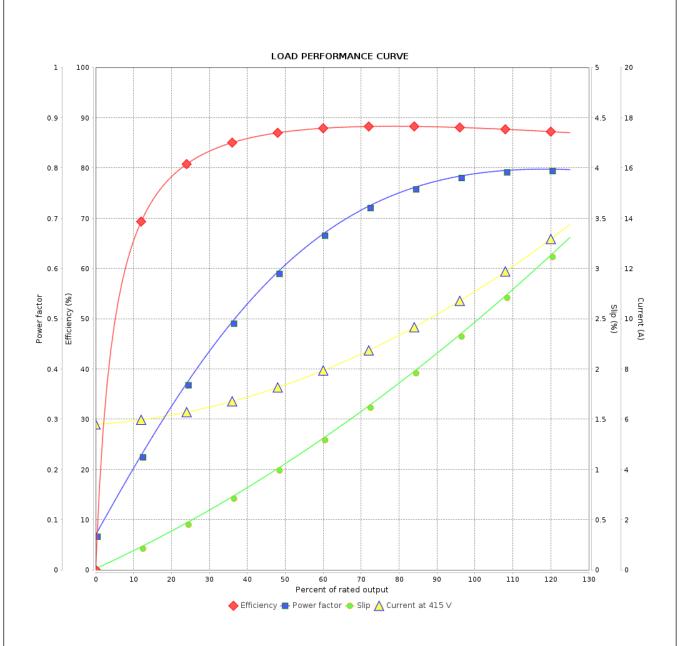
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12445775



Performance	: 4	415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 : 1 : 1 : 2	11.0 A 6.2 5.58 kgfm 220 % 260 % 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1652 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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