DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12445721 Three-Phase Frame : 213/5T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F 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 : 70.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0504 kgm² Design : B Output [HP] 3 3 3 3 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 8.82/4.41 5.09 4.97 4.93 L. R. Amperes [A] 61.7/30.9 29.5 31.8 33.5 LRC [A] 7.0x(Code K) 5.8x(Code H) 6.4x(Code J) 6.8x(Code K) No load current [A] 5.10/2.55 2.45 2.60 2.75 Rated speed [RPM] 1175 965 970 970 Slip [%] 2.08 3.50 3.00 3.00 Rated torque [kgfm] 1.85 2.26 2.24 2.24 Locked rotor torque [%] 190 170 180 200 Breakdown torque [%] 270 229 240 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 104s (cold) 58s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 86.5 87.0 87.0 87.0 Efficiency (%) 75% 88.5 88.0 88.0 88.0 100% 89.5 87.5 87.5 87.5 25% 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.63 0.70 0.66 0.64 0.70 0.75 0.73 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 11.0 13.4 P2 (0,5;1,0) 10.5 10.5 8.6 10.5 P3 (0,25;1,0) 9.7 9.7 9.7 8.0 P4 (0,9;0,5) 8.0 8.0 Losses (%) 6.6 8.0 P5 (0,5;0,5) 5.3 4.3 5.3 5.3 P6 (0,5;0,25) 3.4 4.1 4.1 4.1 P7 (0,25;0,25) 2.4 3.0 3.0 3.0 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 68 kaf Sealing V'Ring V'Ring Max. compression : 139 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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 20/10/2024 1/6 Date

DATA SHEET



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Customer	:			
Notes USABLE @208\	/ 9.76A SF 1.15 SFA 11.2A			
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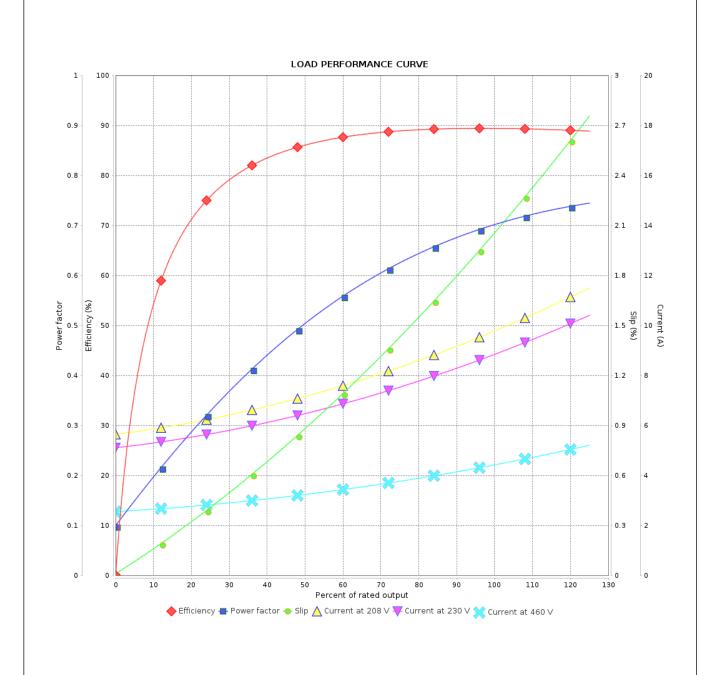
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12445721

Three-Phase



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.82/4.41 A : 7.0 : 1.85 kgfm : 190 % : 270 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

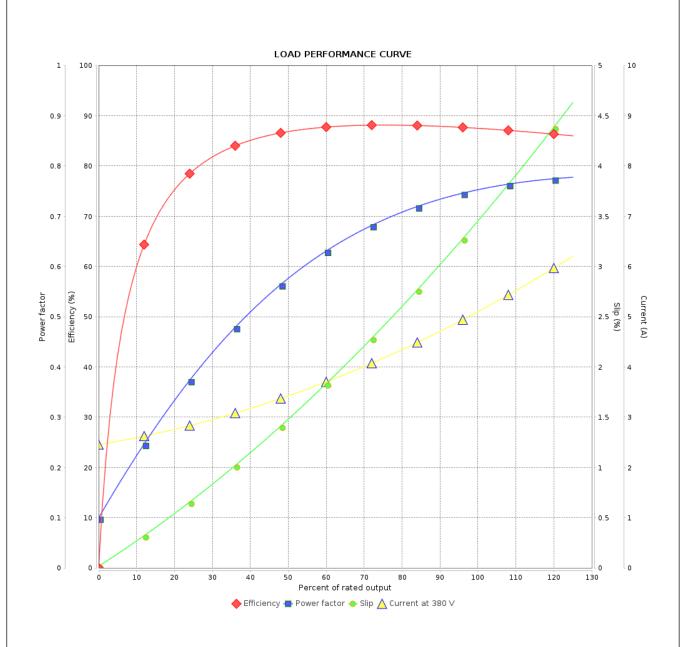
Date

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Product line : W22 NEMA Premium Efficiency F

Three-Phase

Product code: 12445721



Performance : 380 V 50 Hz 6P IE4 : 0.0504 kgm² Rated current : 5.09 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 2.26 kgfm : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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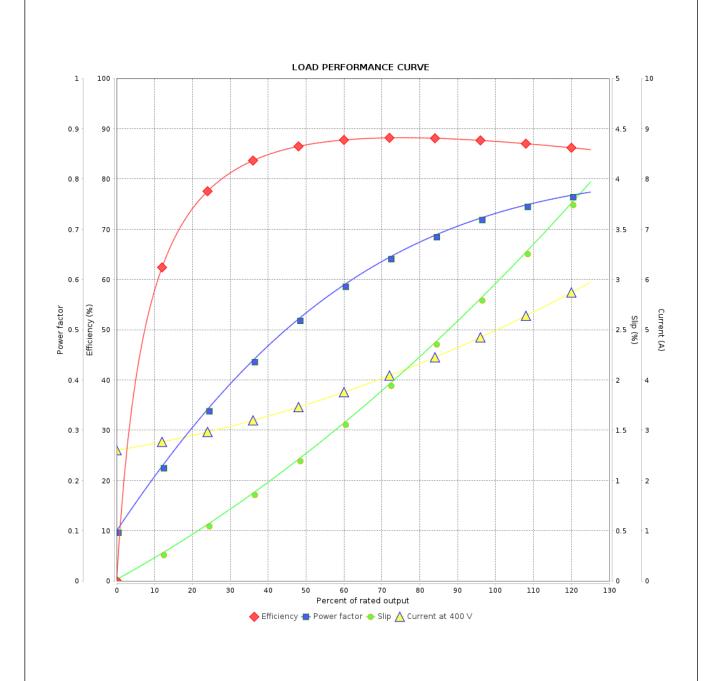
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12445721

Three-Phase



Rev.	Changes Summa	ıry	Performed	Checked	Date	
Rated speed	: 970 rpm	Design	Design			
Breakdown torque	: 240 %	Temperature	Temperature rise			
Locked rotor torque	: 180 %	Service fact	Service factor		: 1.00	
Rated torque	: 2.24 kgfm	Insulation cl	Insulation class		: F	
LRC	: 6.4	Duty cycle		: Cont.(S1)		
Rated current	: 4.97 A	Moment of i	Moment of inertia (J)		: 0.0504 kgm²	
Performance	: 400 V 50 Hz 6P IE4					

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Three Phase Induction Motor - Squirrel Cage

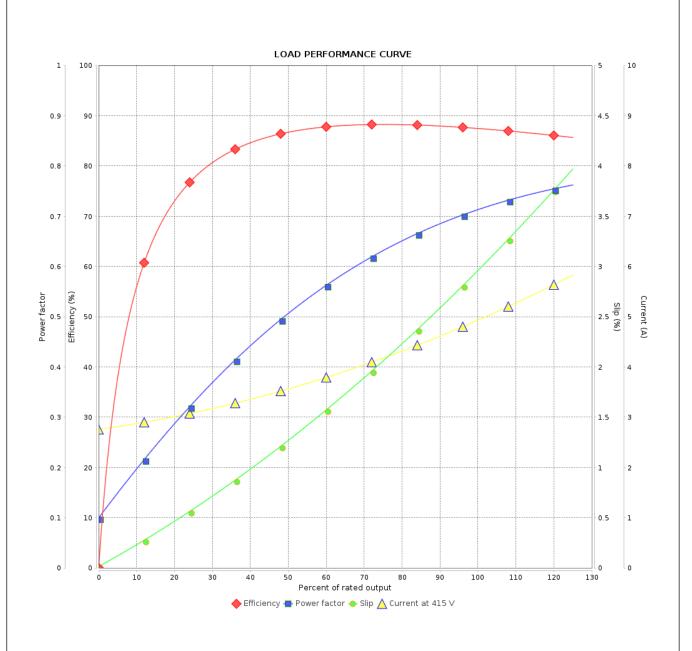


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12445721



Performance					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.93 A : 6.8 : 2.24 kgfm : 200 % : 250 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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