DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11723868 Three-Phase Frame : 143/5T 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 : 20.1 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0049 kgm² Design : B Output [HP] 1 1 1 1 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 2.94/1.47 1.71 1.65 1.63 L. R. Amperes [A] 25.3/12.6 10.9 11.5 12.1 LRC [A] 8.6x(Code M) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.88/0.940 0.930 1.00 1.08 Rated speed [RPM] 1760 1450 1455 1455 Slip [%] 2.22 3.33 3.00 3.00 Rated torque [kgfm] 0.412 0.501 0.499 0.499 Locked rotor torque [%] 290 220 240 260 Breakdown torque [%] 350 250 290 310 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 0.08 80.0 80.0 80.0 Efficiency (%) 75% 84.0 82.5 82.5 82.5 100% 85.5 82.5 84.0 84.0 25% 50% 0.55 0.62 0.58 0.55 Power Factor 75% 0.68 0.74 0.71 0.69 0.75 0.78 0.76 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.9 15.9 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 P4 (0,9;0,5) 10.1 10.1 Losses (%) 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Non drive end Foundation loads Drive end Bearing type 6205 ZZ 6204 ZZ Max. traction : 34 kaf Sealing V'Ring V'Ring Max. compression : 54 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

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DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			<u> </u>
Customer	:			
Notes USABLE @208\	/ 3.07A SF 1.15 SFA 3.54A			
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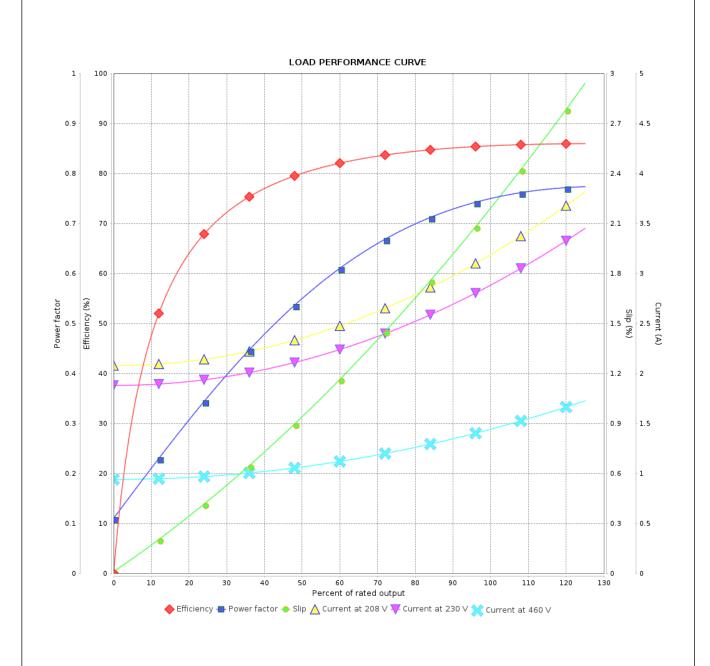
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11723868

Three-Phase



Rev.	Changes	ary Performed	Checked	Date	
Rated speed	: 1760 rpm	Design	: B		
Breakdown torque	: 350 %	Temperature rise	: 80 K		
Locked rotor torqu	e : 290 %	Service factor	: 1.25	: 1.25	
Rated torque	: 0.412 kgfm	Insulation class	: F	: F	
LRC	: 8.6	Duty cycle	: Cont.(S1)	: Cont.(S1)	
Rated current	: 2.94/1.47 A	Moment of inertia (J)	: 0.0049 kgm	: 0.0049 kgm²	
Performance : 230/460 V 60 Hz					

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Three Phase Induction Motor - Squirrel Cage



Customer :

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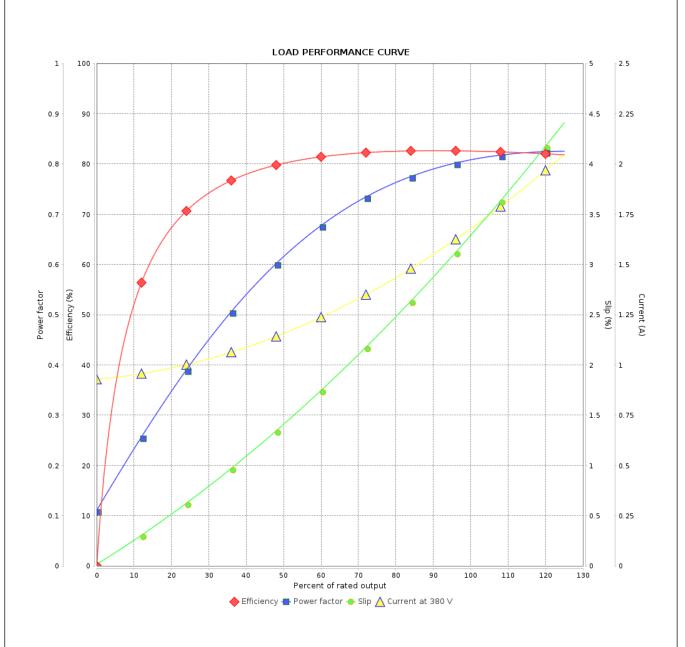
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.71 A : 6.4 : 0.501 kgfm : 220 % : 250 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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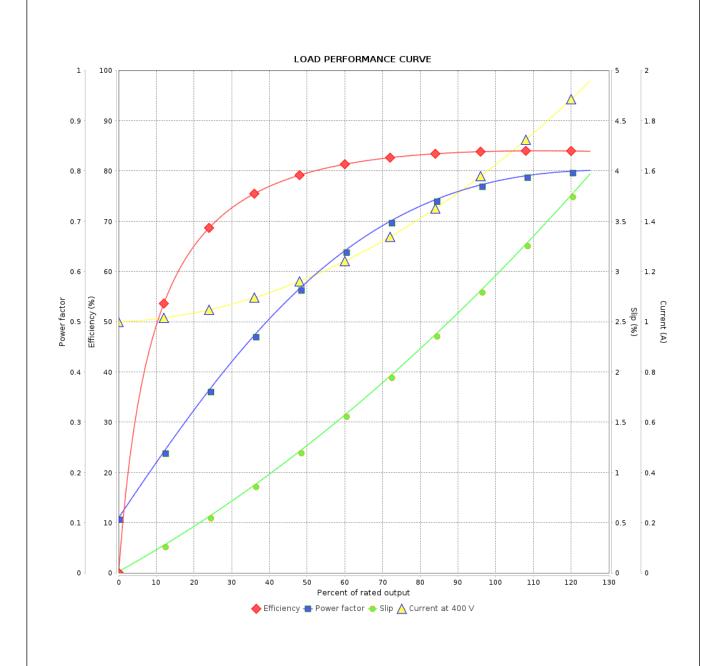
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11723868

Three-Phase



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 7. : 0. ue : 24	499 kgfm 40 % 90 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K	
Rated speed Rev.	: 14	455 rpm Changes Summary	Design	Performed	: B Checked	Date
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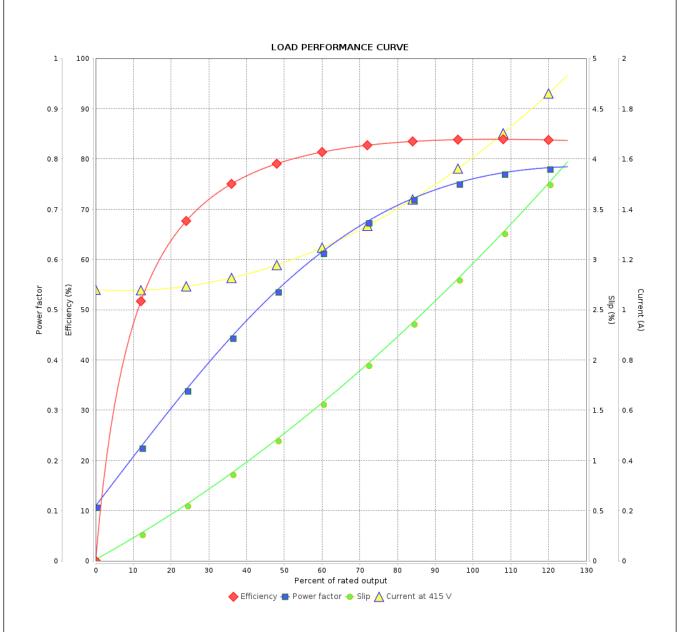


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.63 A : 7.4 : 0.499 kgfm : 260 % : 310 % : 1455 rpm	Duty cycle Insulation class Service factor Temperature rise		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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