DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12717665 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 : 70.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0753 kgm² Design : B Output [HP] 2 2 2 2 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 6.78/3.39 3.91 3.80 3.78 L. R. Amperes [A] 46.8/23.4 23.5 24.7 27.2 LRC [A] 6.9x(Code L) 6.0x(Code J) 6.5x(Code K) 7.2x(Code L) No load current [A] 4.60/2.30 2.30 2.42 2.54 Rated speed [RPM] 875 715 720 725 Slip [%] 2.78 4.67 4.00 3.33 Rated torque [kgfm] 1.66 2.03 2.02 2.00 Locked rotor torque [%] 220 170 210 240 Breakdown torque [%] 290 210 250 280 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 70s (cold) 39s (hot) Locked rotor time 70s (cold) 39s (hot) 70s (cold) 39s (hot) 70s (cold) 39s (hot) Noise level² 52.0 dB(A) 48.0 dB(A) 48.0 dB(A) 48.0 dB(A) 25% 50% 82.5 81.5 81.5 81.5 Efficiency (%) 75% 84.0 82.0 82.5 82.5 100% 85.5 82.0 82.5 82.5 25% 50% 0.45 0.52 0.49 0.46 Power Factor 75% 0.55 0.62 0.59 0.56 0.65 0.71 0.69 0.67 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.1 20.1 16.1 20.8 P2 (0,5;1,0) 13.5 17.5 16.9 16.9 P3 (0,25;1,0) 13.2 16.5 17.1 16.5 P4 (0,9;0,5) 12.0 Losses (%) 9.6 12.4 12.0 P5 (0,5;0,5) 8.7 7.0 9.0 8.7 P6 (0,5;0,25) 5.6 7.2 7.0 7.0 P7 (0,25;0,25) 4.4 5.7 5.5 5.5 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

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Three Pha	se Induction Motor - Squirrel Cage			<u> </u>
Customer	:			
Notes USABLE @208\	/ 7.49A SF 1.15 SFA 8.62A			
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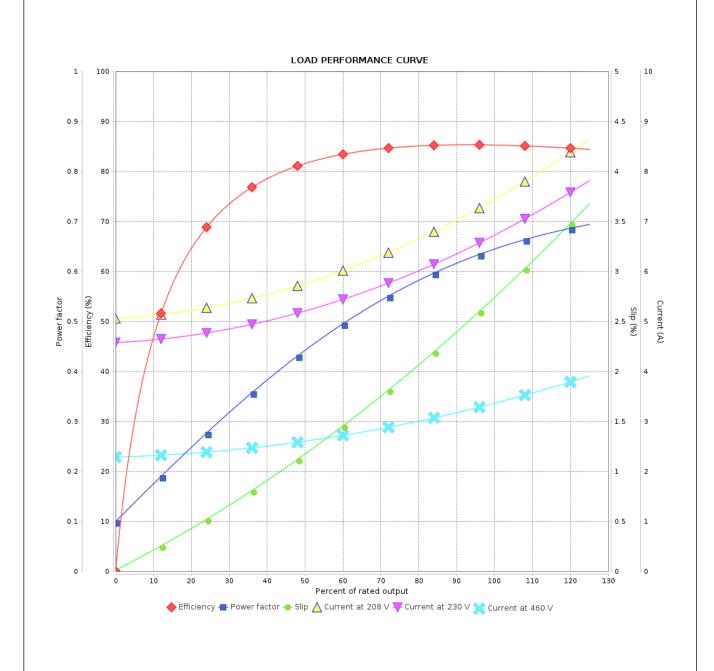
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717665

Three-Phase



Performance	: 230/460 V 60 Hz 8l	P		
Rated current	: 6.78/3.39 A	Moment of inertia (J)	: 0.0753 kgn	n²
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 1.66 kgfm	Insulation class	: F	
Locked rotor torg	jue : 220 %	Service factor	: 1.25	
Breakdown torqu	ie : 290 %	Temperature rise	: 80 K	
Rated speed	: 875 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage

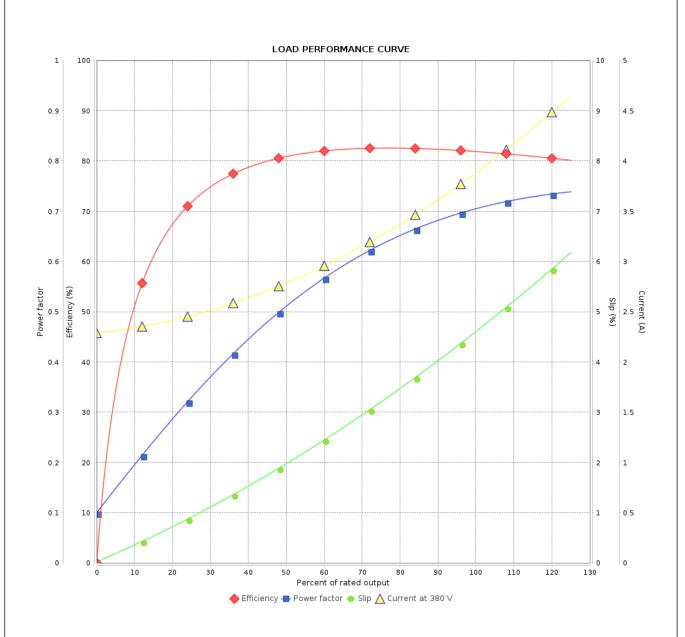


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717665



Performance	: 38	30 V 50 Hz 8P IE3	3				
Rated current	: 3.	91 A	Moment o	Moment of inertia (J)		2	
LRC	: 6.	0	Duty cycle	Duty cycle			
Rated torque	: 2.	03 kgfm	Insulation	Insulation class		: Cont.(S1) : F	
Locked rotor torq	ue : 1	70 %	Service fa	Service factor		: 1.00	
Breakdown torqu	ie : 2	10 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 7	15 rpm	Design		: B		
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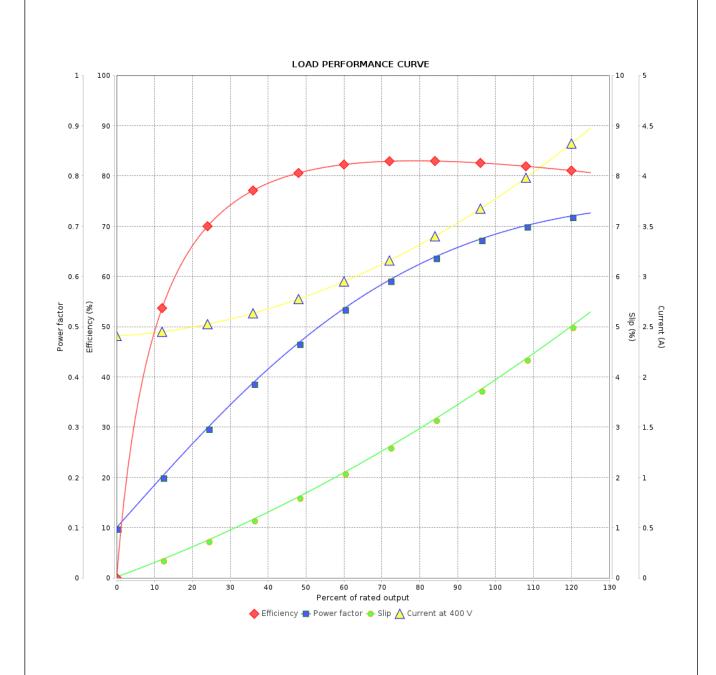
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717665

Three-Phase



Pov	Changas Summary	Dorformed	Charked Data	
Rated speed	: 720 rpm	Design	: B	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Rated torque	: 2.02 kgfm	Insulation class	: F	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated current	: 3.80 A	Moment of inertia (J)	: 0.0753 kgm²	
Performance	: 400 V 50 Hz 8P IE3			
			·	

Rated speed	: 12	zu rpm	Design		. B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

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Product line : W22 NEMA Premium Efficiency

Three-Phase

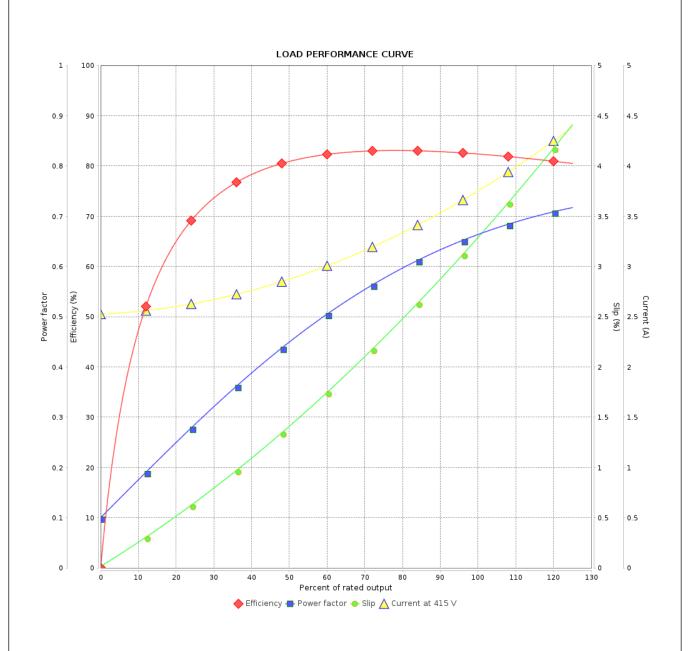
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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.78 A : 7.2 : 2.00 kgfm : 240 % : 280 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0753 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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