DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12717137 Three-Phase : 182/4TC 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 Altitude : 1000 m.a.s.l. : 37.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0080 kgm² Design : B Output [HP] 3 2 2 2 3 3 3 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 4.44 7.52/3.76 3.28 3.24 3.24 4.32 4.26 L. R. Amperes [A] 64.7/32.3 31.8 35.0 36.0 31.1 32.8 35.4 LRC [A] 8.6x(Code K) 9.7x(Code 10.8x(Code 11.1x(Code 7.0x(Code H) 7.6x(Code J) 8.3x(Code K) M) N) P) No load current [A] 3.20/1.60 1.50 1.65 1.80 1.50 1.70 1.80 Rated speed [RPM] 3515 2935 2940 2945 2890 2900 2910 Slip [%] 2.36 2.17 2.00 1.83 3.67 3.33 3.00 Rated torque [kgfm] 0.619 0.495 0.494 0.493 0.753 0.751 0.748 Locked rotor torque [%] 250 280 320 350 190 210 229 Breakdown torque [%] 380 420 470 509 270 300 330 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 43s (cold) 34s (cold) Locked rotor time 46s (cold) 52s (cold) 43s (cold) 48s (cold) 41s (cold) 26s (hot) 29s (hot) 24s (hot) 27s (hot) 23s (hot) 24s (hot) 19s (hot) Noise level² 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 82.0 81.0 80.6 79.7 84.0 84.0 84.0 Efficiency (%) 75% 86.0 84.5 84.5 84.1 85.5 85.5 85.5 100% 86.5 85.8 85.8 85.9 85.5 85.5 85.5 25% 50% 0.70 0.63 0.58 0.55 0.76 0.71 0.68 Power Factor 75% 0.80 0.75 0.71 0.67 0.84 0.81 0.79 100% 0.85 0.81 0.78 0.75 0.88 0.86 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 10.7 10.7 10.7 10.7 10.7 10.7 10.7 P3 (0,25;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P4 (0,9;0,5) 8.3 8.3 8.3 8.3 8.3 8.3 8.3 Losses (%) P5 (0,5;0,5) 4.5 4.5 4.5 4.5 4.5 4.5 4.5 P6 (0,5;0,25) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 32 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 70 kgf Lubrication interval Lubricant amount 88000 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 03/11/2025 1/9 Date

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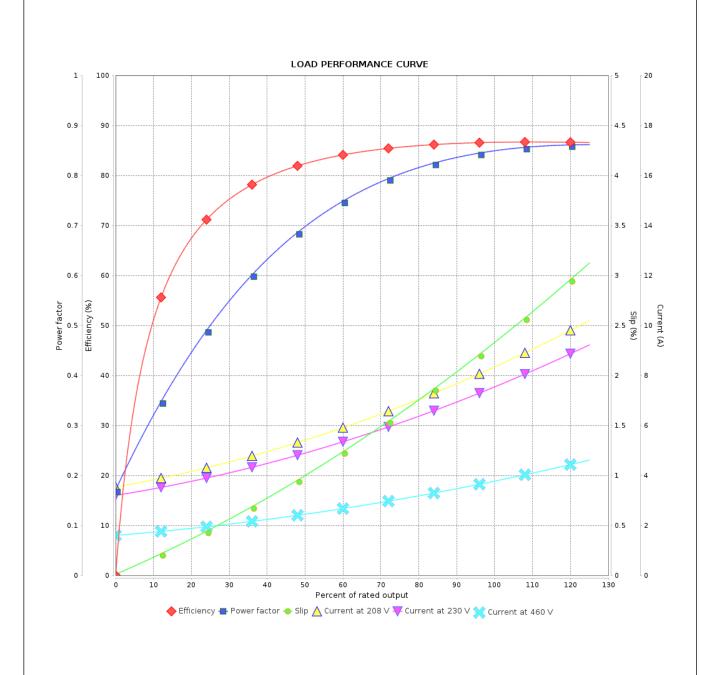
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 12717137

Three-Phase



Performance	: 2	30/460 V 60 Hz 2P				
Rated current		.52/3.76 A	Moment of	Moment of inertia (J)		2
LRC : 8.0		.6	Duty cycle	9	: Cont.(S1)	
Rated torque : 0.		.619 kgfm	Insulation	class	: F	
		50 %	Service fa	Service factor		
Breakdown torqu	e : 3	80 %	Temperati	Temperature rise		
Rated speed	: 3	515 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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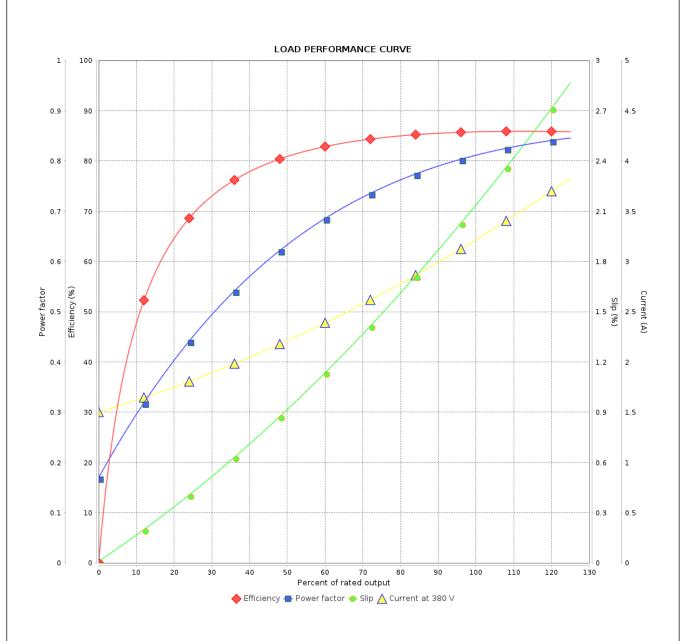
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717137



Performance : 380 V 50 Hz 2P IE3 : 0.0080 kgm² Rated current : 3.28 A Moment of inertia (J) **LRC** : 9.7 Duty cycle : Cont.(S1) : 0.495 kgfm Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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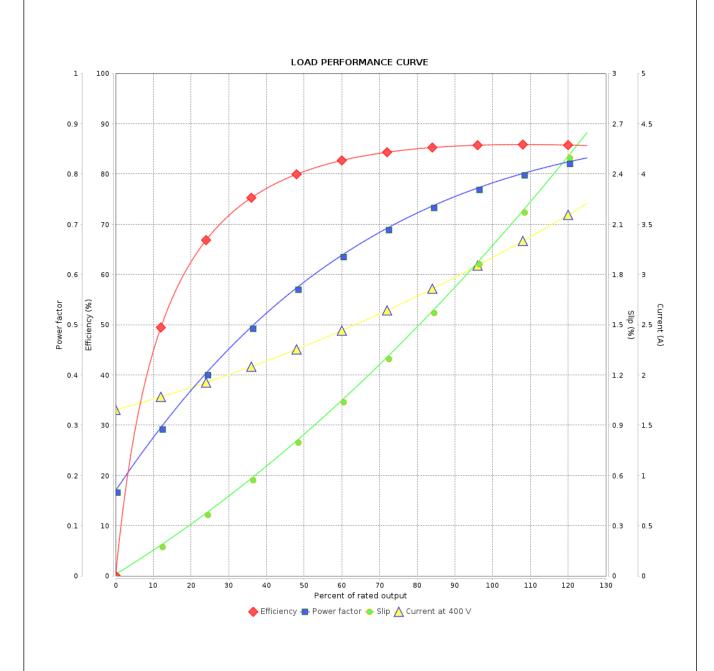
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717137

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.24 A : 10.8 : 0.494 kgfm : 320 % : 470 % : 2940 rpm	Duty cycle : Cor Insulation class : F Service factor : 1.25		: 1.25 : 80 K	
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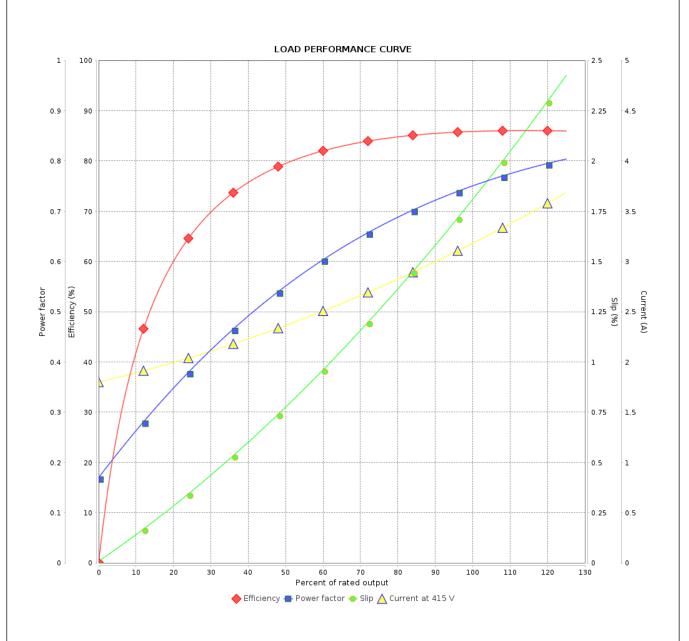


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717137



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 3.24 A : 11.1 : 0.493 kgfm	: 11.1 Duty cycle		: 0.0080 kgm² : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 509 %			: 80 K : B	
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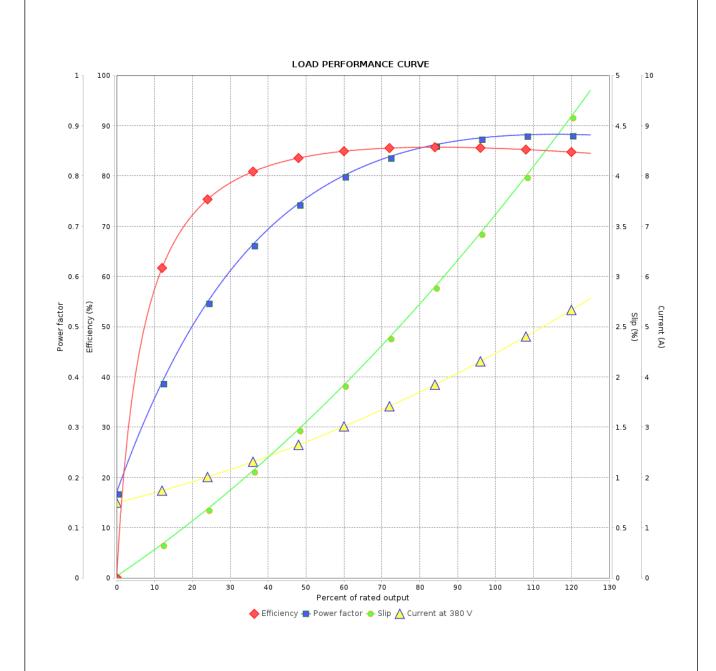
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717137

Three-Phase



Performance	: 380 V 50 Hz 2P IE2	,			
Rated current	: 4.44 A	Moment o	of inertia (J)	: 0.0080 kgm²	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 0.753 kgfm	Insulation class		:F	
Locked rotor torque	: 190 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 2890 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

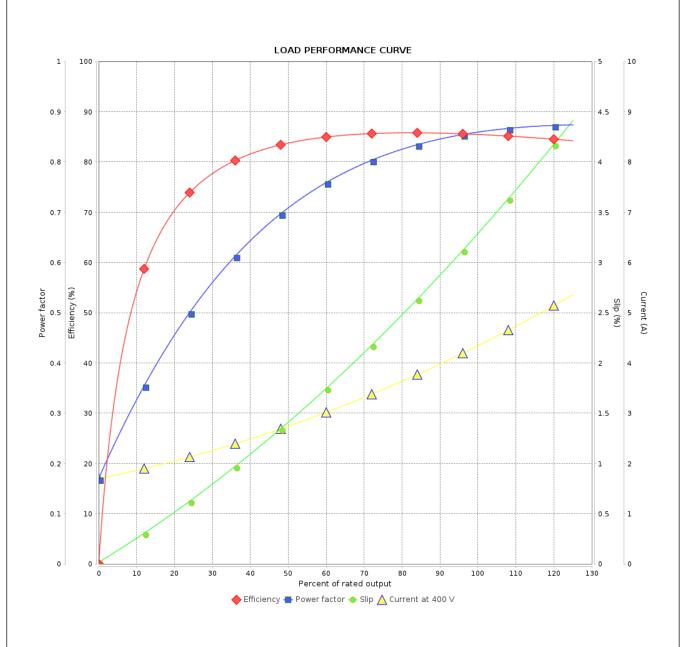


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717137



				
Performance	: 400 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.32 A : 7.6 : 0.751 kgfm : 210 % : 300 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	•
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Three Phase Induction Motor - Squirrel Cage



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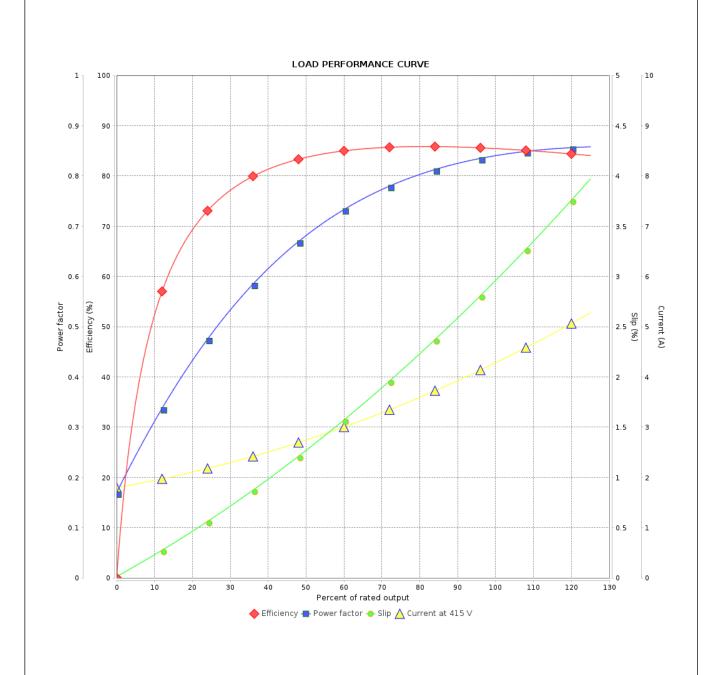
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Product line : W22 NEMA Premium Efficiency Product code : 12717137

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.26 A : 8.3 : 0.748 kgfm : 229 % : 330 % : 2910 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0080 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	2
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