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 13/11/2025 1/9 Date

DATA SHEET

Checked by

Date

13/11/2025



Three Pha	se Inductio	n Motor - Squir	rel Cage			ШЕЦ
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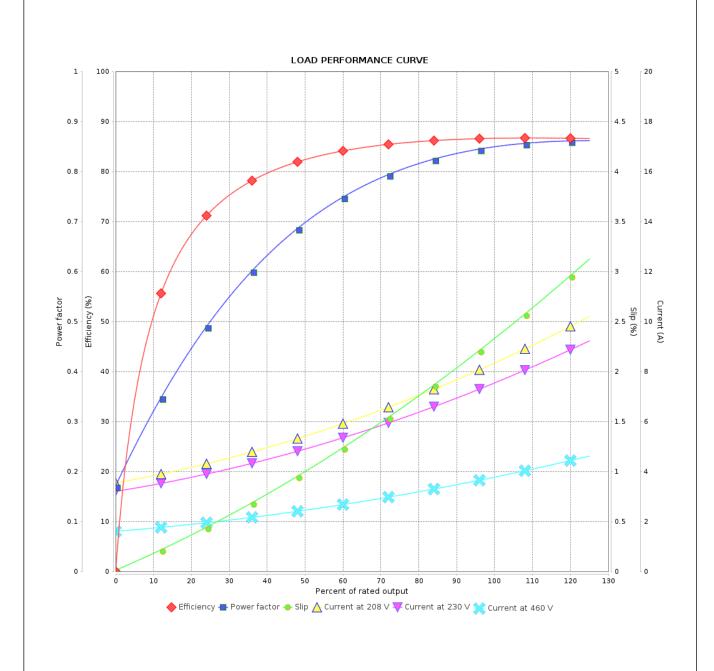
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717137

Three-Phase



Rev. Changes Summary		•	Performed	Checked	Date	
Rated speed : 3515 rpm		Design		: B		
Breakdown torque	: 380 %	Temperature rise		: 80 K		
Locked rotor torque	: 250 %	Service factor		: 1.25		
Rated torque	: 0.619 kgfm	Insulation class		: F		
LRC	: 8.6	Duty cycle		Duty cycle : Cont.(S1)		
Rated current	: 7.52/3.76 A	Moment of inertia (J)		: 7.52/3.76 A Moment of inertia (J) : 0.0080 kgm ²		!
Performance	: 230/460 V 60 Hz 2P	P				

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Three Phase Induction Motor - Squirrel Cage



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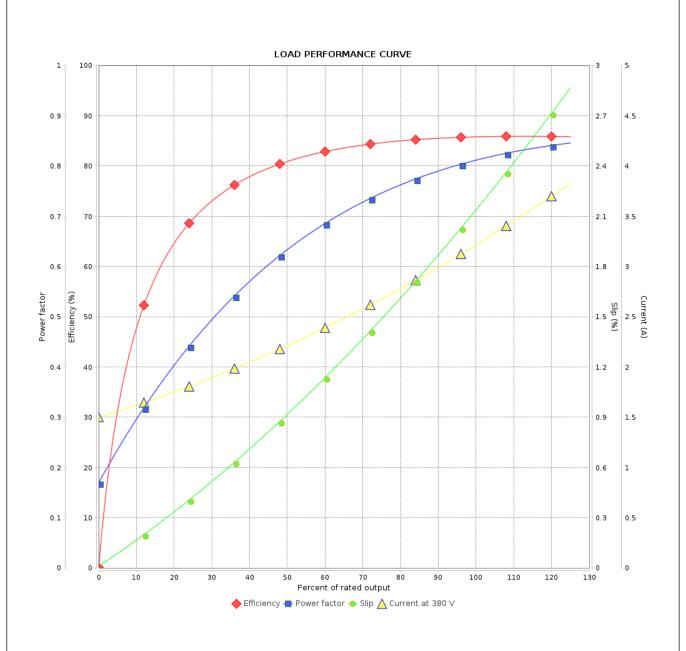
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12717137

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Performance	formance : 380 V 50 Hz 2P IE3				
Rated current	: 3.28 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 9.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 0.495 kgfm	Insulation	class	: F	
Locked rotor torque	: 280 %	Service factor		: 1.25	
Breakdown torque	: 420 %	Temperature rise Design		: 80 K	
Rated speed	: 2935 rpm			: B	
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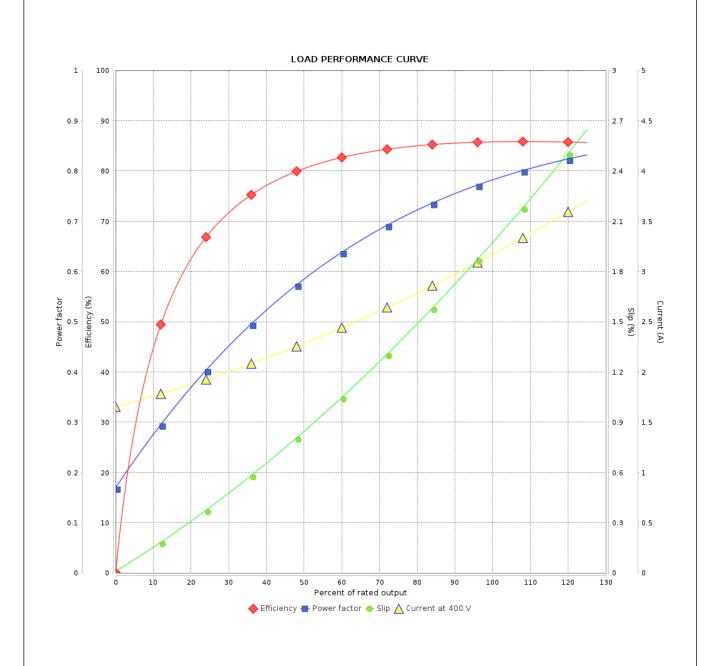
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717137

Three-Phase



Performance	: 40	400 V 50 Hz 2P IE3					
Rated current LRC	: 10.8		Duty cycle	Moment of inertia (J) Duty cycle			
Rated torque Locked rotor torq	ue : 32	494 kgfm 20 %	Insulation class Service factor				
Breakdown torqu Rated speed			ure rise	: 80 K : B			
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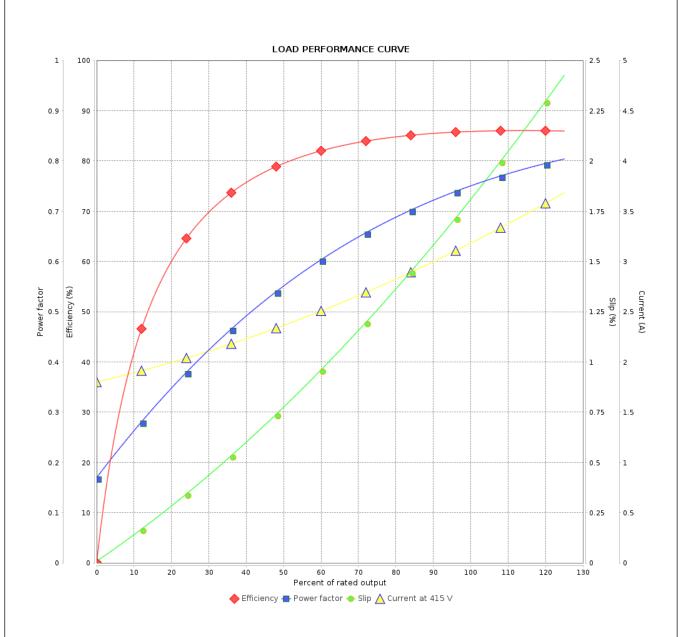


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Three-Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC					2
Rated torque Locked rotor torque	: 0.493 kgfm : 350 %	Insulation class Service factor		: F : 1.25	
Breakdown torque Rated speed	: 509 % : 2945 rpm	Temperature rise Design		: 80 K : B	
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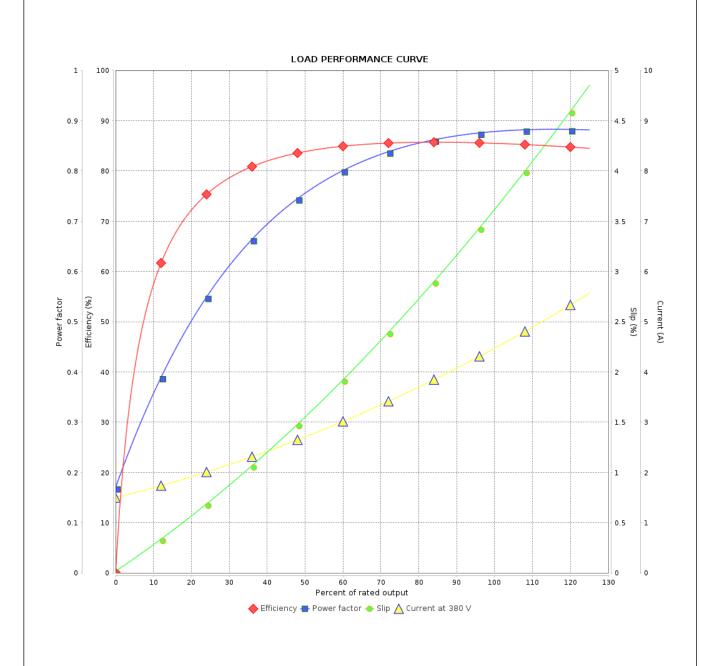
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



Performance	: 38	380 V 50 Hz 2P IE2					
Rated current LRC	: 4.44 A : 7.0		Moment of Duty cycle	Moment of inertia (J)			
Rated torque	: 0.	.753 kgfm 90 %	Insulation class		kgfm Insulation class : F		
Locked rotor torque Breakdown torque		70 %	Service factor Temperature rise		: 1.25 : 80 K		
Rated speed	: 28	890 rpm	Design		: B		
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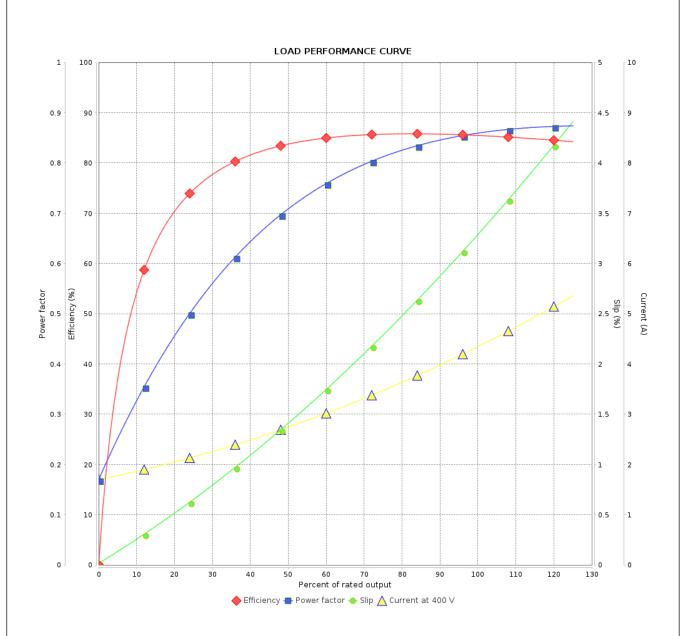


Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

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Performance	: 4	: 400 V 50 Hz 2P IE2				
Rated current : 4.32 A		Moment o	Moment of inertia (J)		2	
LRC	: 7	7.6	Duty cycle		: Cont.(S1)	
Rated torque	: C).751 kgfm	Insulation	Insulation class		
Locked rotor torq	ue : 2	210 %	Service fa	Service factor		
Breakdown torque		300 %	Temperat	Temperature rise		
Rated speed	: 2	2900 rpm	Design		: B	
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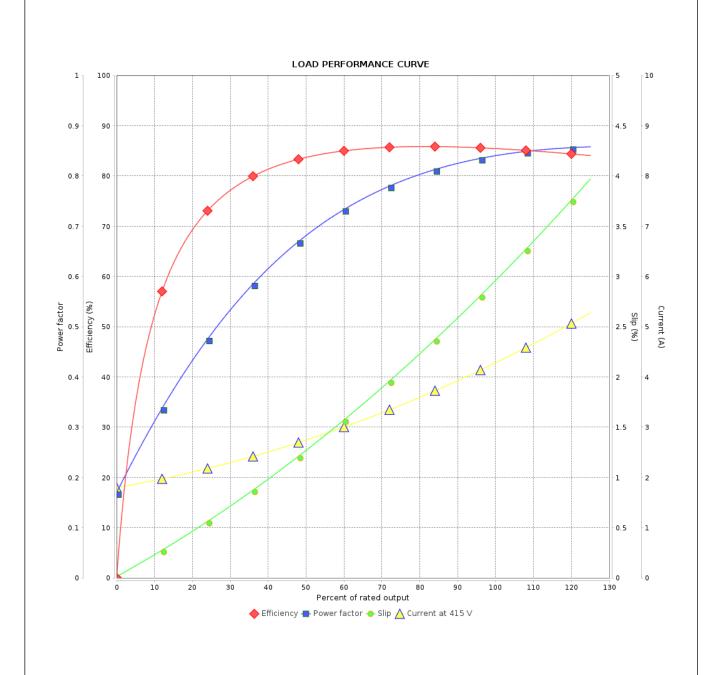


Customer

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Three-Phase



D (445 14 50 11 00 150			<u> </u>	
Performance	: 415 V 50 HZ 2P IE2	: 415 V 50 Hz 2P IE2			
Rated current	: 4.26 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 0.748 kgfm	Insulation class		:F `´	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	·			: B	
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