DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12373844 Efficiency Three-Phase : 182/4T 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. : 43.0 kg Protection degree : IP56 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] 380 400 460 380 400 415 415 Rated current [A] 4.34 3.63 3.09 3.00 2.96 4.17 4.07 L. R. Amperes [A] 29.5 31.2 29.7 32.1 32.9 31.7 33.0 LRC [A] 8.6x(Code K) 9.6x(Code L) 10.7x(Code 11.1x(Code 6.8x(Code H) 7.6x(Code J) 8.1x(Code J) M) N) No load current [A] 1.30 1.25 1.35 1.40 1.25 1.35 1.40 Rated speed [RPM] 3510 2930 2935 2940 2880 2890 2900 Slip [%] 2.50 2.33 2.17 2.00 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.495 0.495 0.494 0.756 0.753 0.751 Locked rotor torque [%] 250 300 340 370 210 240 260 Breakdown torque [%] 380 430 480 520 290 320 350 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 54s (cold) 54s (cold) Locked rotor time 73s (cold) 54s (cold) 54s (cold) 54s (cold) 54s (cold) 41s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (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% 82.5 81.0 80.6 79.7 84.0 84.0 84.0 Efficiency (%) 75% 86.5 84.5 84.5 84.1 86.5 86.5 86.5 100% 86.5 85.8 85.8 85.9 85.5 85.5 85.5 25% 50% 0.75 0.68 0.65 0.63 0.80 0.77 0.75 Power Factor 75% 0.84 0.79 0.77 0.75 0.87 0.86 0.84 100% 0.88 0.86 0.84 0.82 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.1 14.1 14.1 14.1 14.1 14.1 14.1 P2 (0,5;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 P3 (0,25;1,0) 8.5 8.5 8.5 8.5 8.5 8.5 8.5 P4 (0,9;0,5) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 Losses (%) P5 (0,5;0,5) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6207 C3 6206 C3 : 33 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 76 kgf Lubrication interval 20000 h 20000 h 5 g Lubricant amount 7 g Mobil Polyrex EM 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 22/10/2024 1/9 Date

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Three Phase Induction Motor - Squirrel Cage



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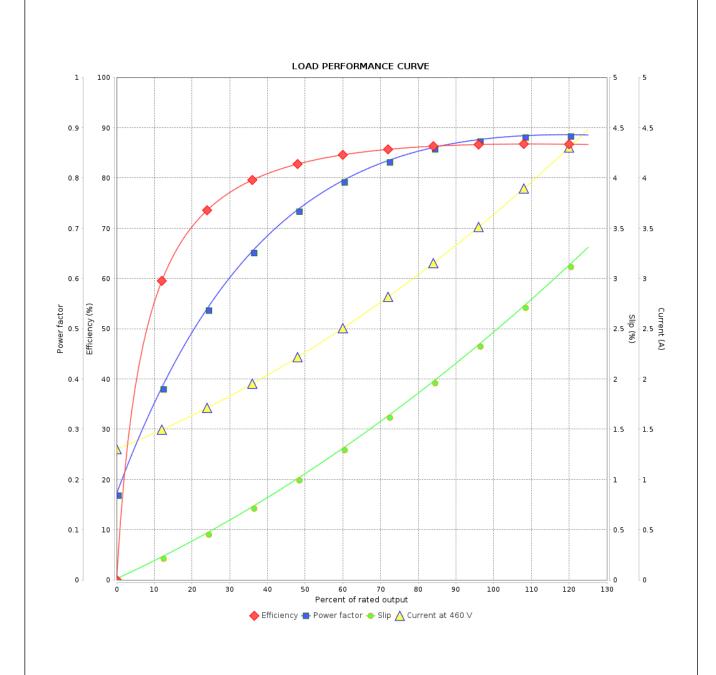
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current : 3.63 A		Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 8.6	Duty cycle		: Cont.(S1)	
Rated torque	: 0.620 kgfm	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.25	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 3510 rpm	Design		: B	
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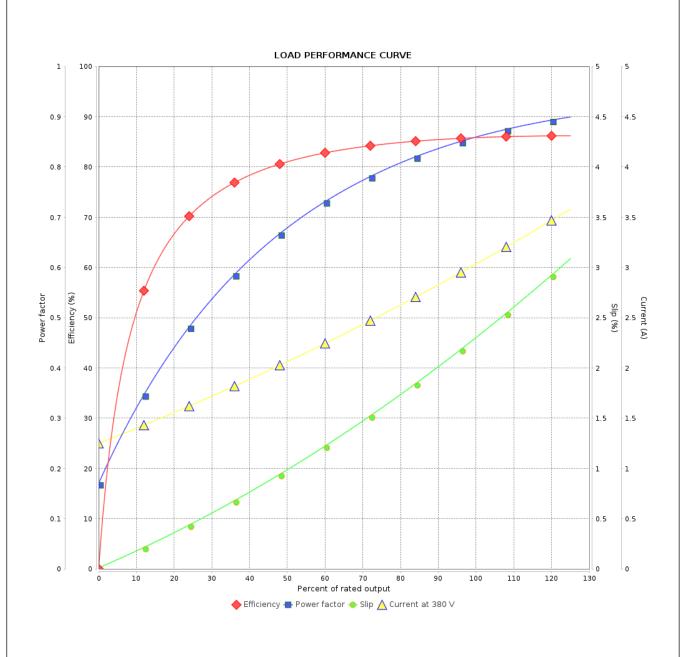


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373844



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09 A : 9.6 : 0.495 kgfm : 300 % : 430 % : 2930 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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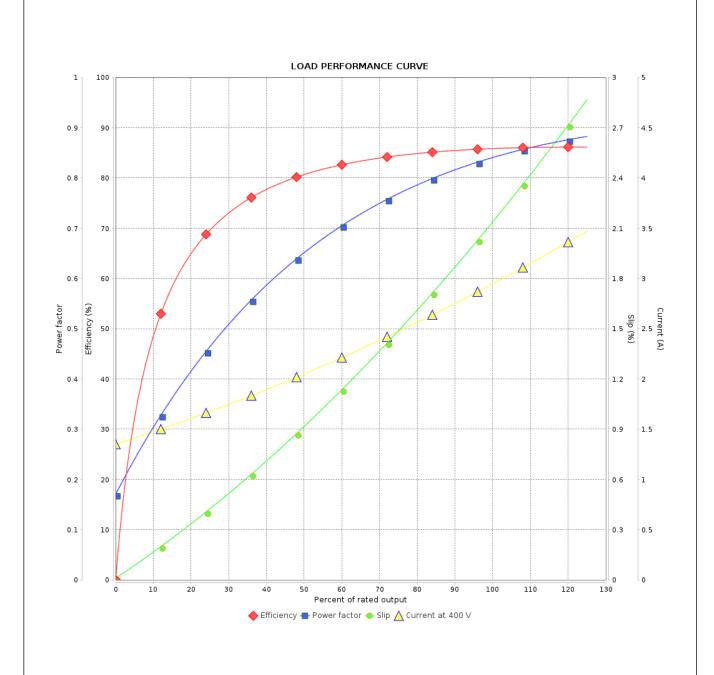
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Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance					
Rated current : 3.00 A		Moment of inertia (J)		: 0.0080 kgm²	
LRC : 10.7		Duty cycle : Cont.(S1)		: Cont.(S1)	
Rated torque	: 0.495 kgfm	Insulation class		:F	
Locked rotor torque	: 340 %	Service factor		: 1.25	
Breakdown torque	: 480 %	Temperature rise		: 80 K	
Rated speed	: 2935 rpm	Design		: B	
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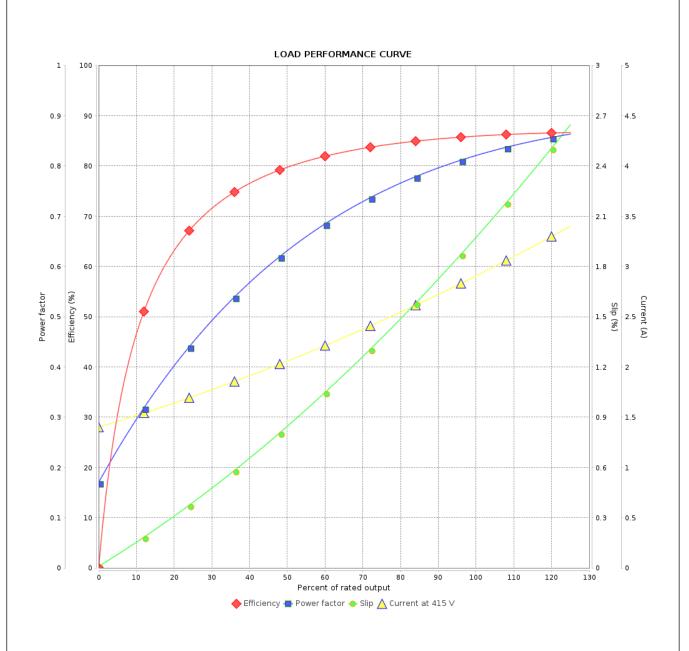


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Efficiency Three-Phase

Product code: 12373844



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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.96 A : 11.1 : 0.494 kgfm : 370 % : 520 % : 2940 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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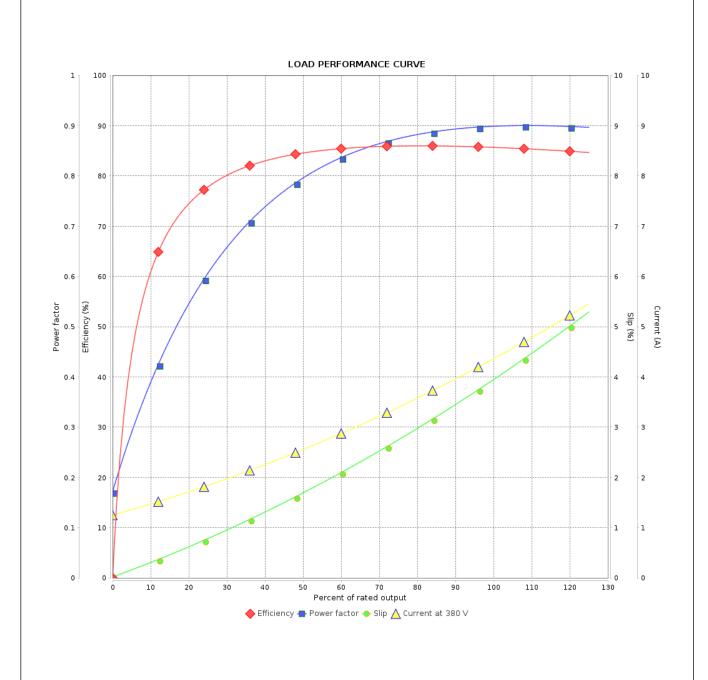
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance					
Rated current	: 4.34 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 6.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 0.756 kgfm	Insulation class		: F	
Locked rotor torque	: 210 %	Service factor		: 1.25	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 2880 rpm	Design		: B	
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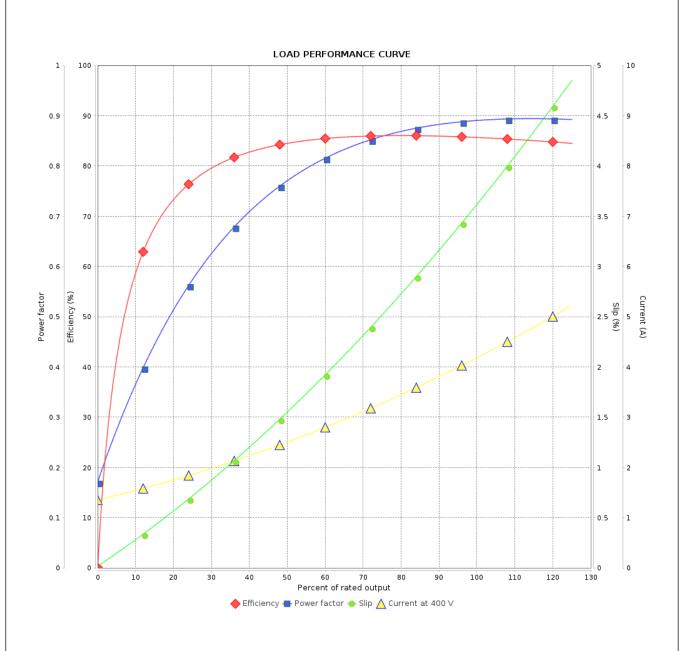


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373844



Performance		00 V 50 Hz 2P IE2				
Rated current		.17 A	Moment o	Moment of inertia (J)		2
LRC :7.		.6	Duty cycle	9	: Cont.(S1)	
Rated torque : 0		.753 kgfm	Insulation	Insulation class		
•		40 %	Service fa	Service factor		
Breakdown torque	: 3	20 %	% Temperature rise		: 80 K	
Rated speed	: 2	2890 rpm Design			: B	
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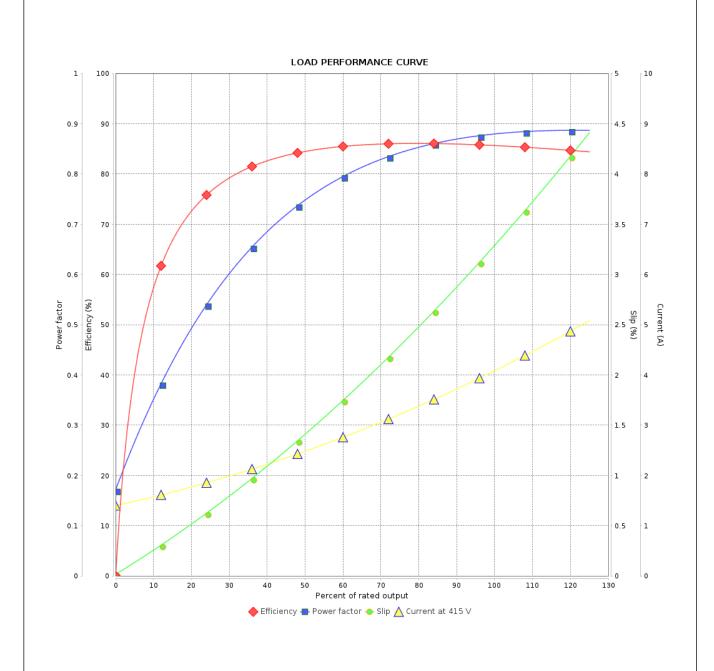
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.07 A : 8.1 : 0.751 kgfm : 260 % : 350 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design Performed		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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