DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 16487760 Three-Phase : 364/5TC 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. : 402 kg Protection degree : IP55 Moment of inertia (J) : 1.22 kgm² Design : B Output [HP] 40 30 30 40 40 30 40 Poles 8 8 8 8 8 8 8 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 62.9 102/50.9 47.8 46.3 45.7 60.0 58.1 L. R. Amperes [A] 601/300 292 310 324 283 300 320 LRC [A] 5.9x(Code | 6.1x(Code H) | 6.7x(Code J) | 7.1x(Code J) | 4.5x(Code E) | 5.0x(Code F) | 5.5x(Code G) G) No load current [A] 20.7 22.2 23.4 20.7 43.0/21.5 22.2 23.4 Rated speed [RPM] 882 735 736 737 725 727 730 3.33 Slip [%] 2.00 2.00 1.87 1.73 3.07 2.67 Rated torque [kgfm] 32.9 29.6 29.6 29.5 40.0 39.9 39.8 Locked rotor torque [%] 170 600 210 229 140 160 170 Breakdown torque [%] 210 240 270 300 180 200 210 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 32s (cold) 32s (cold) Locked rotor time 46s (cold) 81s (cold) 52s (cold) 52s (cold) 32s (cold) 26s (hot) 45s (hot) 29s (hot) 29s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 60.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 92.4 91.5 91.5 90.9 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.6 91.9 91.8 91.0 91.7 91.7 100% 92.4 90.9 91.5 91.7 89.5 90.2 91.0 25% 50% 0.65 0.60 0.55 0.52 0.70 0.66 0.62 Power Factor 75% 0.75 0.71 0.68 0.65 0.78 0.76 0.74 100% 0.80 0.77 0.75 0.73 0.81 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 3.6 3.6 3.6 3.6 3.6 3.6 3.6 Losses (%) P5 (0,5;0,5) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 737 kgf Max. traction Sealing WSeal WSeal Max. compression : 1139 kgf Lubrication interval 20000 h 20000 h Lubricant amount 27 q 27 q 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 29/10/2024 1/9 Date

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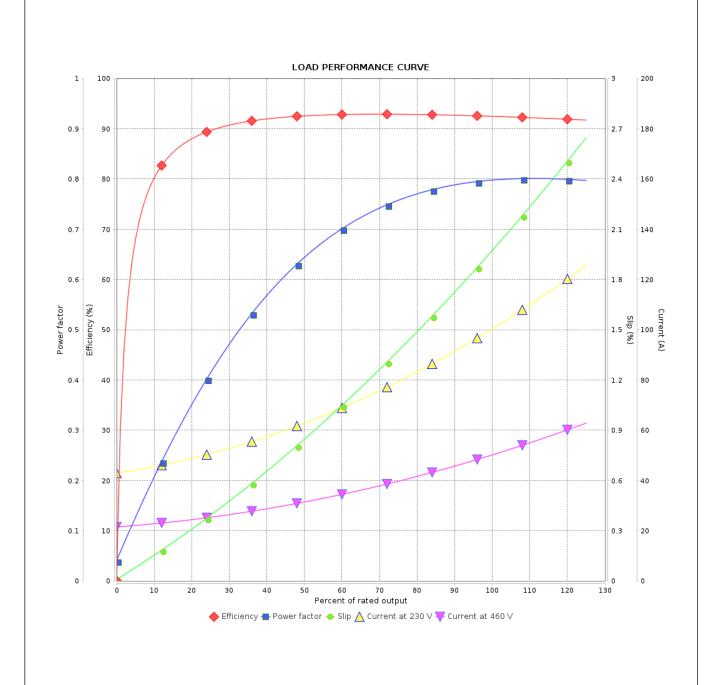
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 16487760

Three-Phase



			*			
Performance		: 230/460 V 60 Hz 8P				
Rated current		: 102/50.9 A	Moment of inertia (J)		: 1.22 kgm²	
LRC		: 5.9	Duty cycle		: Cont.(S1)	
Rated torque : 32.9 kgfm Insulation class		class	: F			
Locked rotor torque :		: 170 %	Service factor		: 1.25	
Breakdown torque		: 210 %	Temperature rise		: 80 K	
Rated speed : 882 rpm		Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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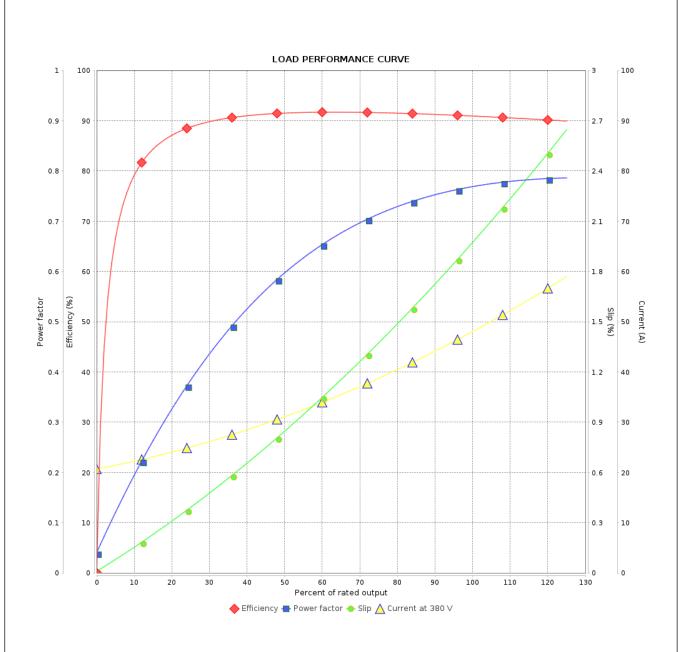
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 16487760



Performance	: 3	880 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 jue : 6	7.8 A 5.1 19.6 kgfm 500 % 140 % 135 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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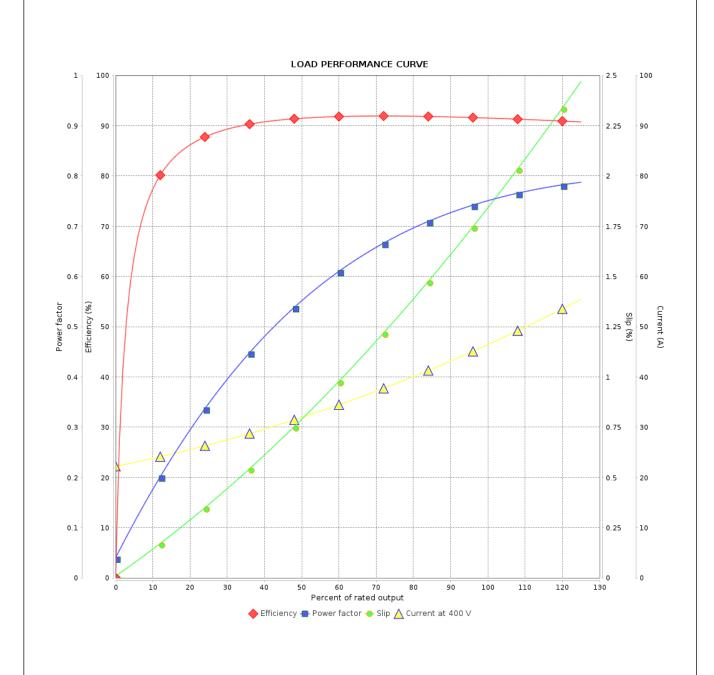
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Date

29/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 16487760

Three-Phase



Performance	: 400 V 50 Hz 8P IE3				
		1.4	.	4.001	
Rated current	: 46.3 A		f inertia (J)	: 1.22 kgm²	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 29.6 kgfm	Insulation class		: F	
Locked rotor torqu	ıe : 210 %	Service factor		: 1.00	
Breakdown torque	: 270 %	270 % Temperature rise		: 80 K	
Rated speed	: 736 rpm	Design		: B	
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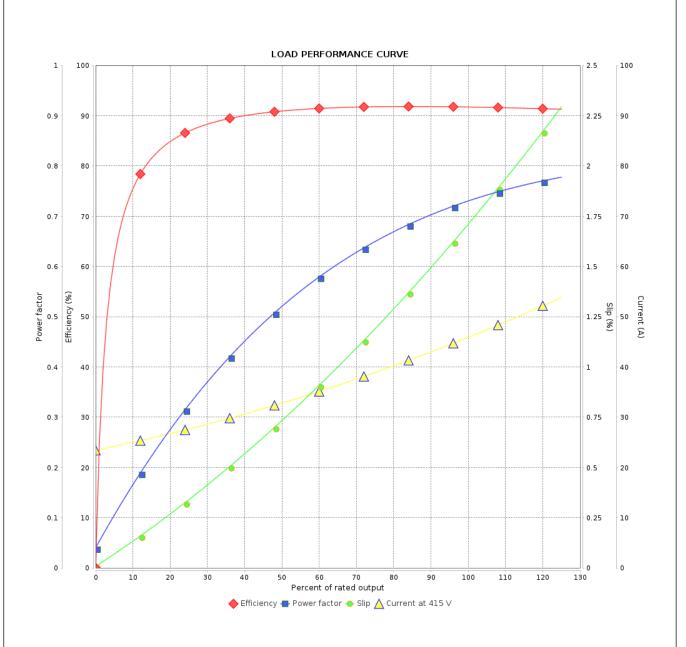
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 16487760



Performance : 415 V 50 Hz 8P IE3 Rated current : 45.7 A Moment of inertia (J) : 1.22 kgm² **LRC** : 7.1 Duty cycle : Cont.(S1) : 29.5 kgfm Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 737 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

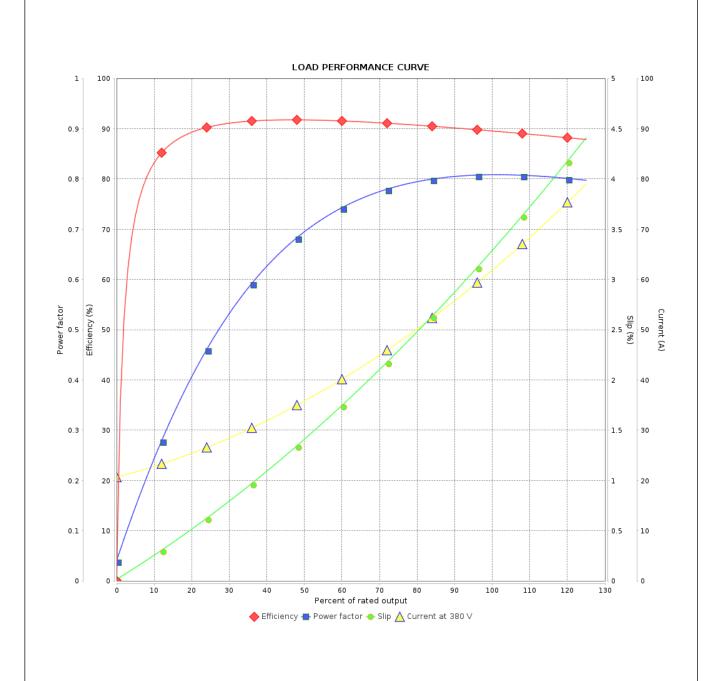
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 16487760

Three-Phase



Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 62.9 A : 4.5 : 40.0 kgfm : 140 % : 180 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 1.22 kgm² : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 725 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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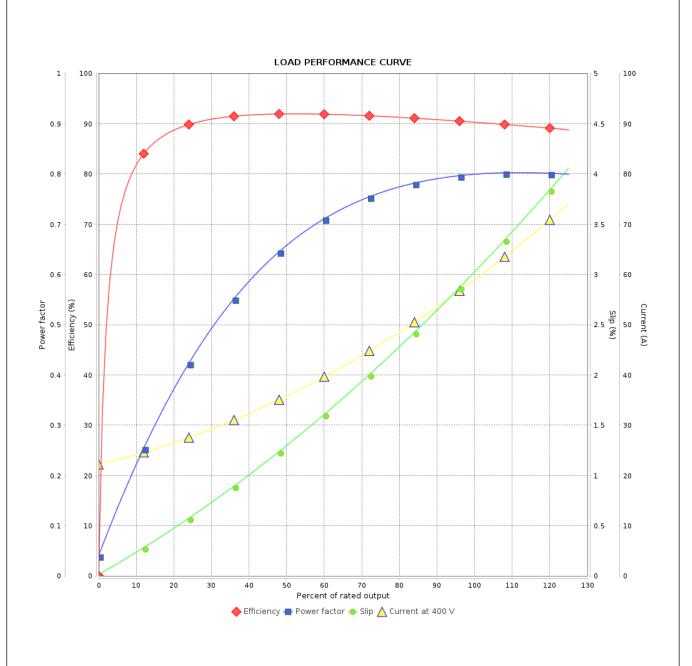
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

16487760

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Performance	. 400 V 50 Hz 9D IC3							
Performance	. 400 V 50 HZ 6P IEZ	: 400 V 50 Hz 8P IE2						
Rated current	: 60.0 A	Moment of i	nertia (J)	: 1.22 kgm²				
LRC	: 5.0	Duty cycle		: Cont.(S1)				
Rated torque	: 39.9 kgfm	Insulation class		: F				
Locked rotor torque	: 160 %	Service factor		: 1.00				
Breakdown torque	: 200 %	Temperature rise		: 105 K				
Rated speed	: 727 rpm	Design		: B				
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Three Phase Induction Motor - Squirrel Cage

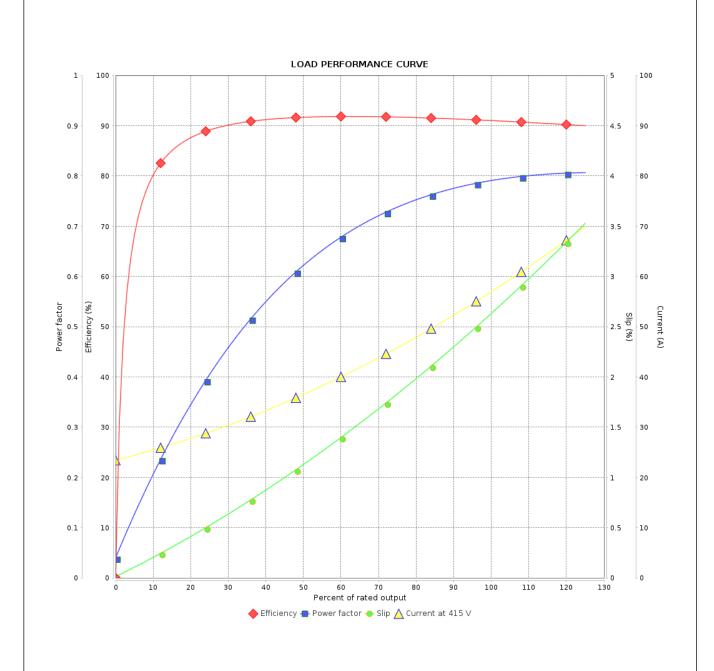


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Product line : W22 NEMA Premium Efficiency Product code : 16487760

Three-Phase



	,				
Performance	: 415 V 50	0 Hz 8P IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	!	Duty cycle Insulation Service fa Temperat	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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