DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 14766380 Three-Phase : 324/6T 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. : 231 kg Protection degree : IP55 Moment of inertia (J) : 0.3946 kgm² Design : B Output [HP] 20 15 20 15 15 20 20 Poles 8 8 8 8 8 8 8 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 33.4 56.6/28.3 26.5 26.4 27.1 32.6 32.7 L. R. Amperes [A] 134 283/142 133 142 152 143 150 LRC [A] 5.0x(Code 5.0x(Code | 5.4x(Code H) | 5.6x(Code J) | 4.0x(Code D) | 4.4x(Code E) | 4.6x(Code F) G) G) No load current [A] 15.7 32.0/16.0 15.7 17.6 19.3 17.6 19.3 Rated speed [RPM] 880 730 730 735 725 725 730 Slip [%] 2.22 2.67 2.67 2.00 3.33 3.33 2.67 Rated torque [kgfm] 16.5 14.9 14.9 14.8 20.0 20.0 19.9 Locked rotor torque [%] 190 190 210 240 140 160 180 170 Breakdown torque [%] 220 229 260 280 190 210 1.00 Service factor 1.25 1.00 1.15 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 80 K 36s (cold) 36s (cold) Locked rotor time 48s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 27s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 56.0 dB(A) 25% 50% 89.5 88.5 87.4 86.3 89.5 88.5 87.5 Efficiency (%) 75% 91.0 89.6 89.0 88.5 89.5 89.5 89.5 100% 91.0 89.5 89.3 89.0 88.5 88.5 88.5 25% 50% 0.54 0.51 0.46 0.42 0.61 0.56 0.52 Power Factor 75% 0.66 0.64 0.60 0.56 0.72 0.68 0.65 100% 0.73 0.72 0.69 0.65 0.77 0.75 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 P2 (0,5;1,0) 8.0 8.0 8.0 8.0 8.0 8.0 8.0 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 7.7 7.7 7.7 P4 (0,9;0,5) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 Losses (%) P5 (0,5;0,5) 3.7 3.7 3.7 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 410 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 641 kgf Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 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 27/10/2024 1/9 Date

DATA SHEET

Checked by

Date

27/10/2024



Three Pha	se Inductio	n Motor - Squir	rel Cage			<u> ШЕЦ</u>
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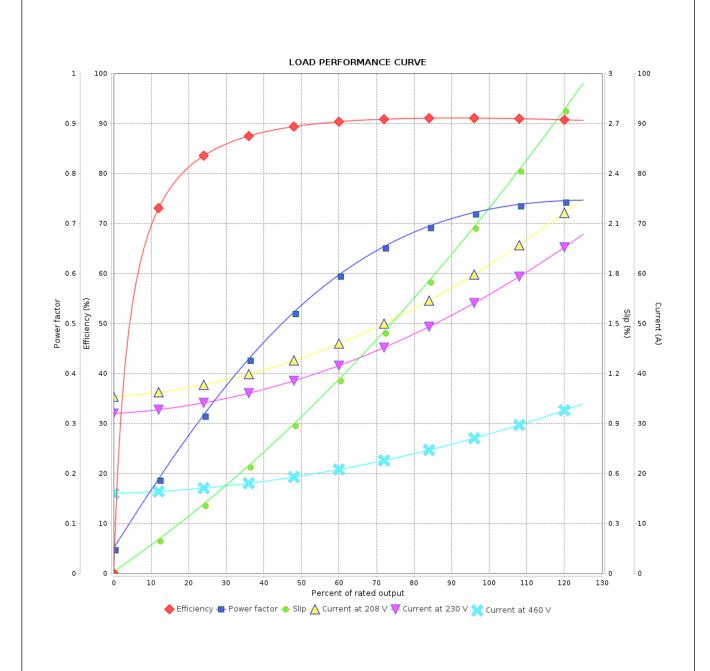
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 14766380

Three-Phase



Performance	: 230/460 V 60 Hz 8P			
Rated current	: 56.6/28.3 A	Moment of inertia (J)	: 0.3946 kgm²	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 16.5 kgfm	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.25	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 880 rpm	Design	: B	
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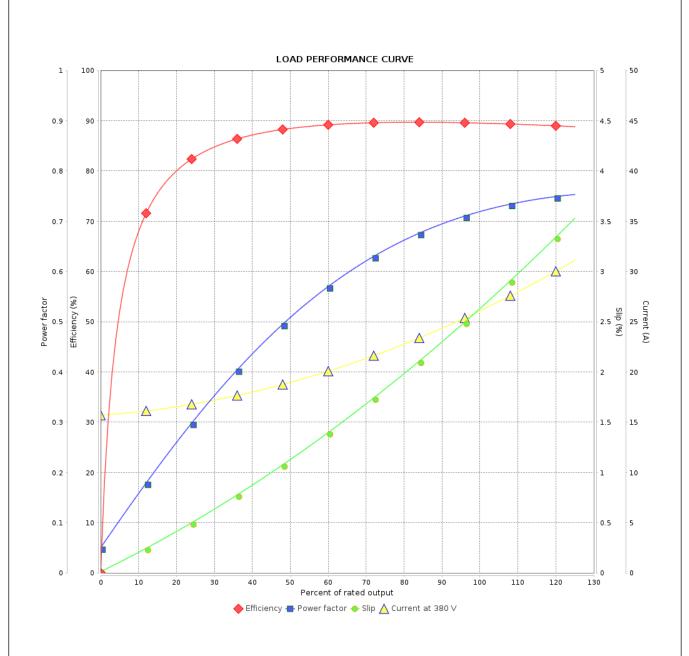
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

14766380



Performance	: 380 V 50 Hz 8P IE3				
Rated current	: 26.5 A	Moment of	inertia (J)	: 0.3946 kgm²	
LRC	: 5.0	Duty cycle		: Cont.(S1)	
Rated torque	: 14.9 kgfm	Insulation c	lass	: F	
Locked rotor torque	: 190 %	Service fact	tor	: 1.00	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 730 rpm	Design		: B	
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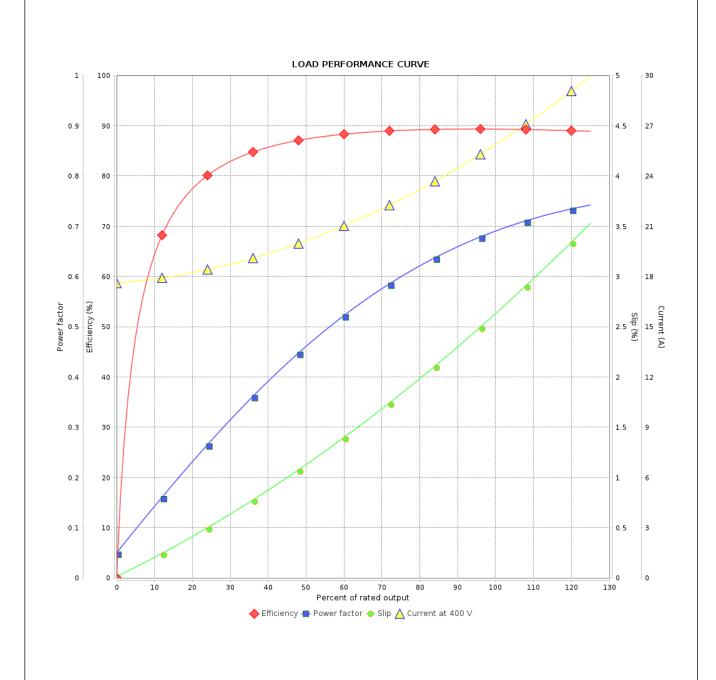
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 14766380

Three-Phase



Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 26.4 A : 5.4 : 14.9 kgfm : 210 % : 260 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.3946 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
Mateu speeu	 . 730 Ipili	Design		. D	
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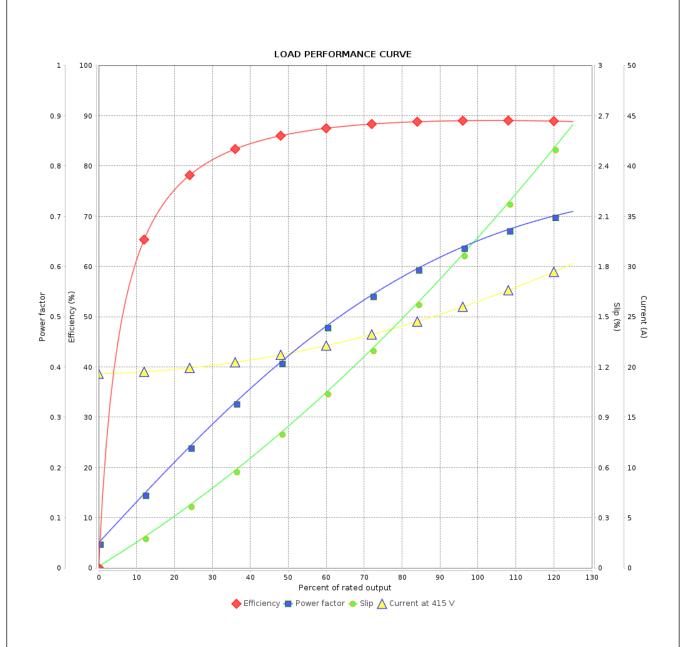
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

14766380



Performance		: 415 V 50 Hz 8	SP IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 27.1 A : 5.6 : 14.8 kgfm : 240 % : 280 % : 735 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3946 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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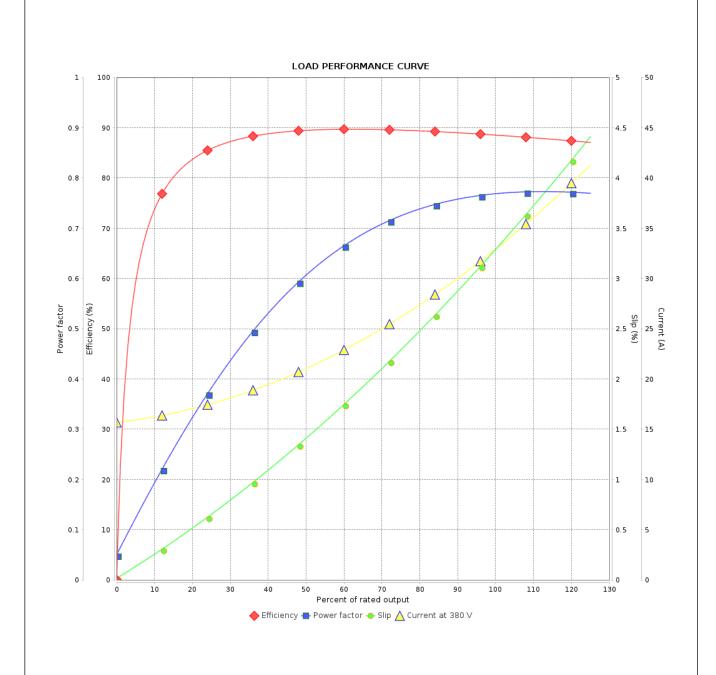


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Product line : W22 NEMA Premium Efficiency Product code : 14766380

Three-Phase



D (000	0.1/50.11 00.150			,	
Performance	: 381	0 V 50 Hz 8P IE2				
Rated current	: 33.	.4 A	Moment of	of inertia (J)	: 0.3946 kgm ²	2
LRC	: 4.0)	Duty cycle	9	: Cont.(S1)	
Rated torque	: 20.	.0 kgfm	Insulation class		lation class : F	
Locked rotor tord	ue : 140	0 %	Service factor		: 1.00	
Breakdown torqu	e : 170	0 %	Temperat	ure rise	: 105 K	
Rated speed	: 72	5 rpm	Design		: B	
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Three-Phase

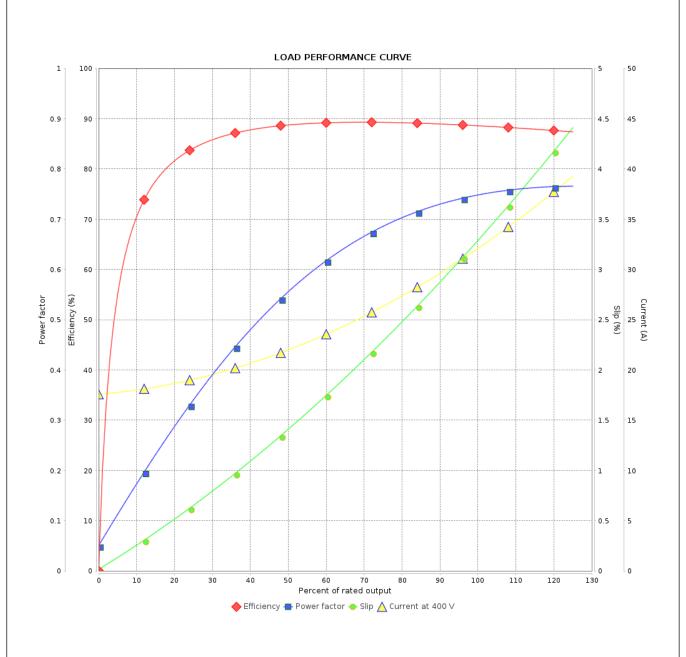
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14766380

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Performance	: 4	400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2 : 2 : 2 : 1 : 1 : 1	32.6 A 4.4 20.0 kgfm 160 % 190 % 725 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.3946 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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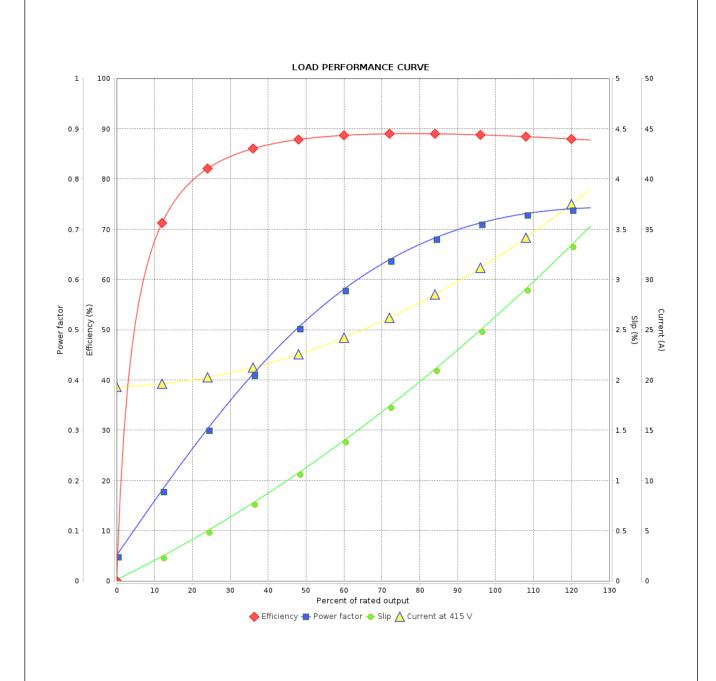
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Customer :

Product line : W22 NEMA Premium Efficiency Product code : 14766380

Three-Phase



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Rated speed	: 730 rpm	Design		: B	
Breakdown torque	: 210 %	Temperatu	re rise	: 80 K	
Locked rotor torque	: 180 %	Service factor		: 1.15	
Rated torque	: 19.9 kgfm	Insulation class		Insulation class : F	
LRC	: 4.6	Duty cycle		: Cont.(S1)	
Rated current	: 32.7 A	Moment of	inertia (J)	: 0.3946 kgm ²	2
Performance	: 415 V 50 Hz 8P IE2				

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