DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943566 Efficiency Three-Phase Frame : 404/5TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 0.0 kg : 1.26 kgm² Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 100 100 100 100 Poles 4 4 4 4 50 50 Frequency [Hz] 60 50 Rated voltage [V] 460 380 400 415 Rated current [A] 116 142 135 131 L. R. Amperes [A] 837 719 795 865 LRC [A] 6.2x(Code G) 5.6x(Code F) 6.2x(Code G) 6.6x(Code G) No load current [A] 32.0 31.7 33.7 35.0 Rated speed [RPM] 1775 1465 1470 1475 Slip [%] 1.39 2.33 2.00 1.67 Rated torque [kgfm] 40.9 49.5 49.4 49.2 Locked rotor torque [%] 240 190 210 220 Breakdown torque [%] 220 170 190 210 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 23s (cold) 13s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) Noise level² 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 95.0 94.5 94.5 94.5 Efficiency (%) 75% 95.0 94.1 94.5 94.5 100% 95.4 93.6 94.1 94.5 25% 50% 0.77 0.82 0.79 0.77 Power Factor 75% 0.84 0.86 0.85 0.84 0.85 0.85 0.84 100% 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power 4.6 P1 (0,9;1,0) 4.6 4.6 4.6 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 P4 (0,9;0,5) 2.0 2.0 2.0 Losses (%) 2.0 P5 (0,5;0,5) 1.4 1.4 1.4 1.4 P6 (0,5;0,25) 0.8 0.8 0.8 0.8 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Drive end Non drive end Foundation loads 6316 C3 6314 C3 Bearing type Max. traction : 1017 kgf Sealing **Taconite** Taconite : 1017 kgf Max. compression Labyrinth Labyrinth 12000 h 10000 h Lubrication interval 34 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Date Rev. Performed by Checked by Page Revision

1/6

23/10/2024

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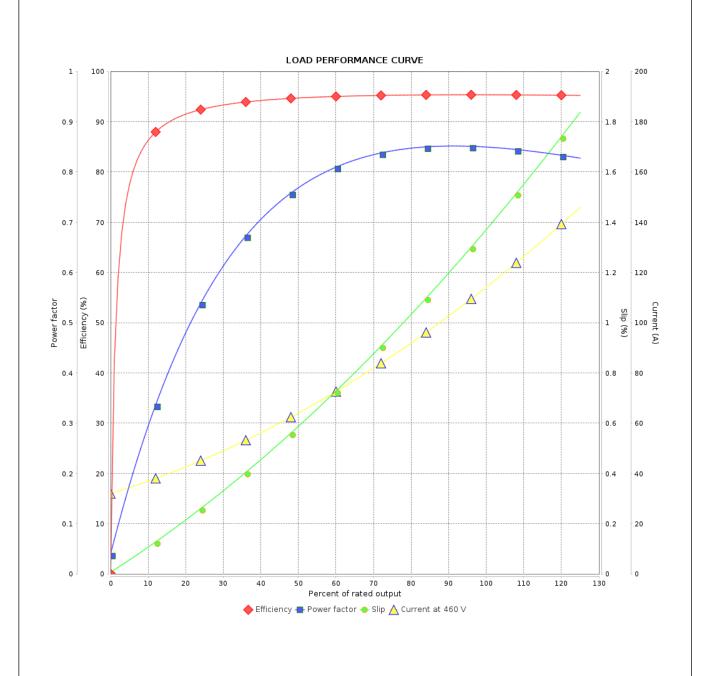


Customer :

Product line : W22 IEEE 841 NEMA Premium F
Efficiency Three-Phase

nium Product code :

11943566



: 116 A	Moment of inertia (J)		: 1.26 kgm²		
: 6.2	Duty cycle		: Cont.(S1)		
: 40.9 kgfm	Insulation class		: F		
: 240 %	Service fa	Service factor		: 1.25	
: 220 %	Temperati	Temperature rise			
: 1775 rpm	Design		: B		
Rev. Changes Summary		Performed	Checked	Date	
	: 6.2 : 40.9 kgfm : 240 % : 220 % : 1775 rpm	: 6.2 Duty cycle : 40.9 kgfm Insulation : 240 % Service fa : 220 % Temperatu : 1775 rpm Design	: 6.2 : 40.9 kgfm : 240 % : 220 % : 1775 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 6.2 Duty cycle : Cont.(S1) : 40.9 kgfm Insulation class : F : 240 % Service factor : 1.25 : 220 % Temperature rise : 80 K : 1775 rpm Design : B	

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Rev.		Changes Summary		Performed	Checked	Date
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Date	23/10/2024				3/6	

Three Phase Induction Motor - Squirrel Cage

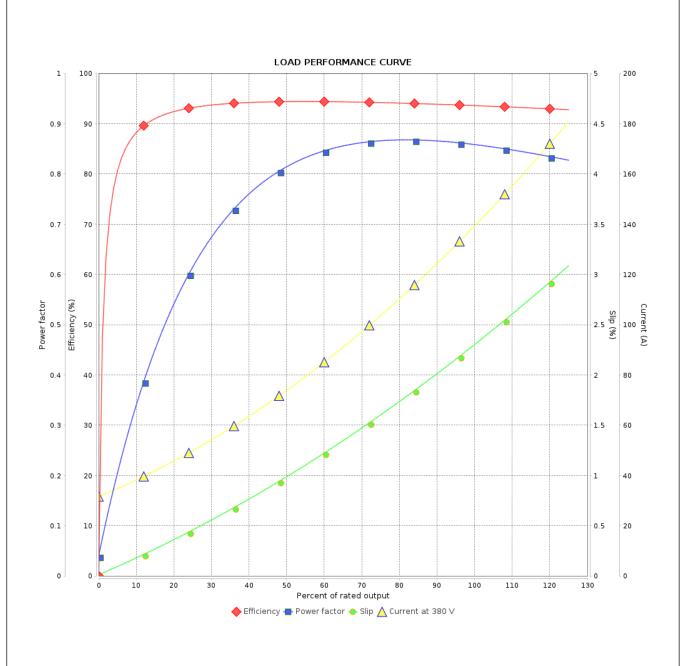


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943566



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 142 A : 5.6 : 49.5 kgfm : 190 % : 170 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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4/6

23/10/2024

Three Phase Induction Motor - Squirrel Cage

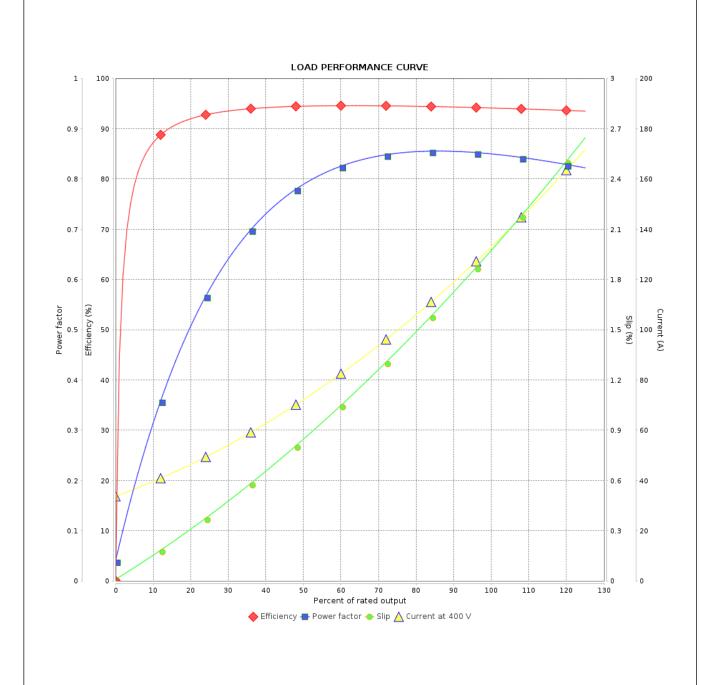


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943566



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 135 A : 6.2 : 49.4 kgfm : 210 % : 190 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
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5/6

23/10/2024

Three Phase Induction Motor - Squirrel Cage

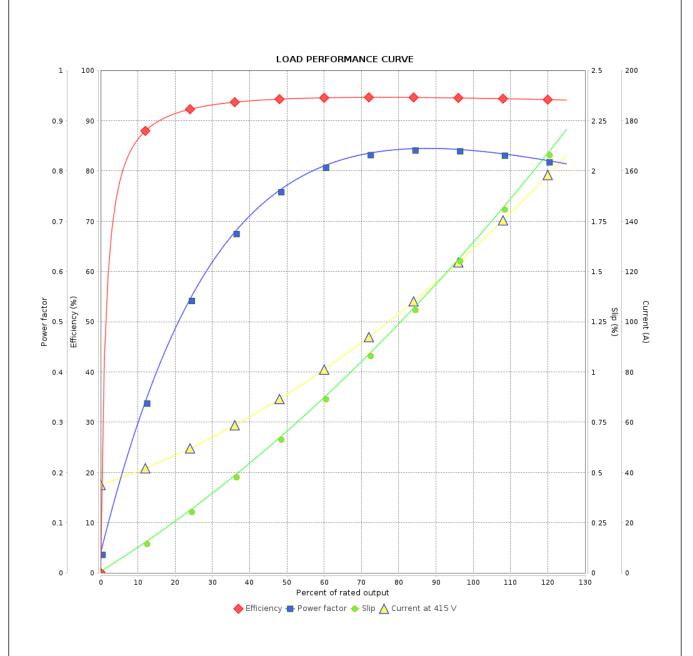


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943566



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.6 : 49.2 kgfm : 220 % : 210 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	: Cont.(S1) : F : 1.00 : 105 K	
Rev.	Changes Summary	Performed	Checked	Date	
Performed by					
Checked by			Page	Revision	

6/6

23/10/2024

