DATA SHEET

Checked by

Date

13/01/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11770612 Three-Phase Frame : 284/6T 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 : 206 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.2467 kgm² Design : B Output [HP] 30 30 30 30 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 35.1 43.1 41.1 39.7 L. R. Amperes [A] 214 228 247 238 LRC [A] 6.1x(Code G) 5.3x(Code F) 6.0x(Code G) 6.0x(Code G) No load current [A] 12.3 12.2 13.1 13.8 Rated speed [RPM] 1770 1455 1460 1465 Slip [%] 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 170 190 220 Breakdown torque [%] 240 200 220 250 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 36s (cold) 20s (hot) 23s (cold) 13s (hot) 23s (cold) 13s (hot) 21s (cold) 12s (hot) Noise level² 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 93.0 90.0 90.5 91.2 Efficiency (%) 75% 93.0 90.2 91.0 91.7 100% 93.6 90.2 91.0 91.7 25% 50% 0.70 0.76 0.73 0.70 Power Factor 75% 0.80 0.83 0.82 0.80 0.84 0.85 0.84 100% 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 P4 (0,9;0,5) 3.1 Losses (%) 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 0.9 0.9 0.9 0.9 Non drive end Foundation loads Drive end 6311 C3 6211 C3 Bearing type Max. traction : 428 kgf Sealing Taconite Taconite : 634 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 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 Rev. Date Performed by

Page

1/6

Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

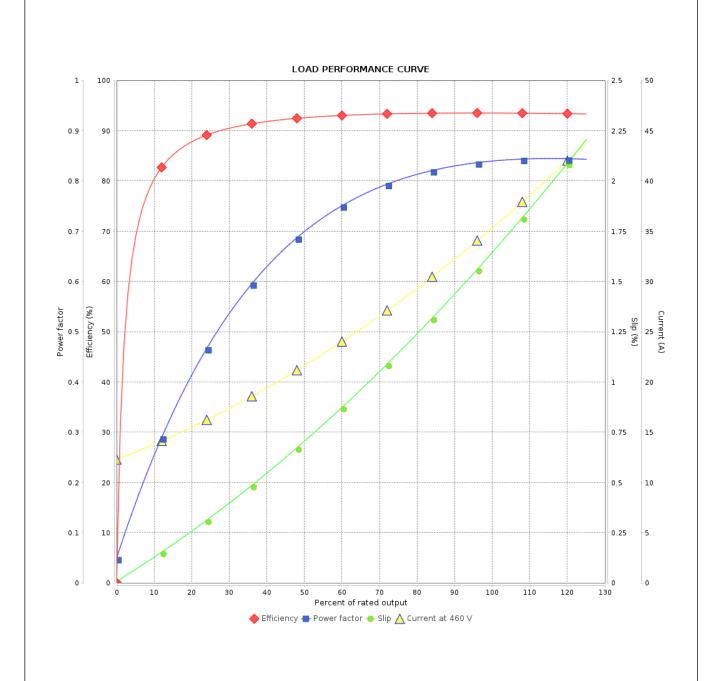


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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11770612

Three-Phase



Performance		: 460 V 60 Hz 4F)				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 35.1 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary			Performed	Checked	Date
Performed by							

Date	13/01/2024		3/6			
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Page

Revision

Three Phase Induction Motor - Squirrel Cage



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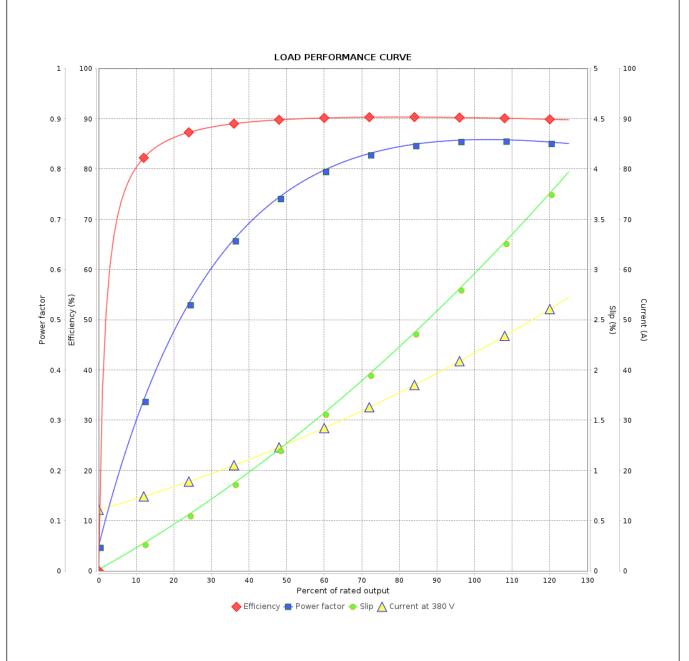
Product line : W22 IEEE 841 NEMA Premium Efficiency

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Product code:

11770612

4/6



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.3 : 15.0 kgfm : 170 % : 200 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Changes Summary		Checked	Date
Performed by					
Checked by				Page	Revision

13/01/2024

Date

Three Phase Induction Motor - Squirrel Cage



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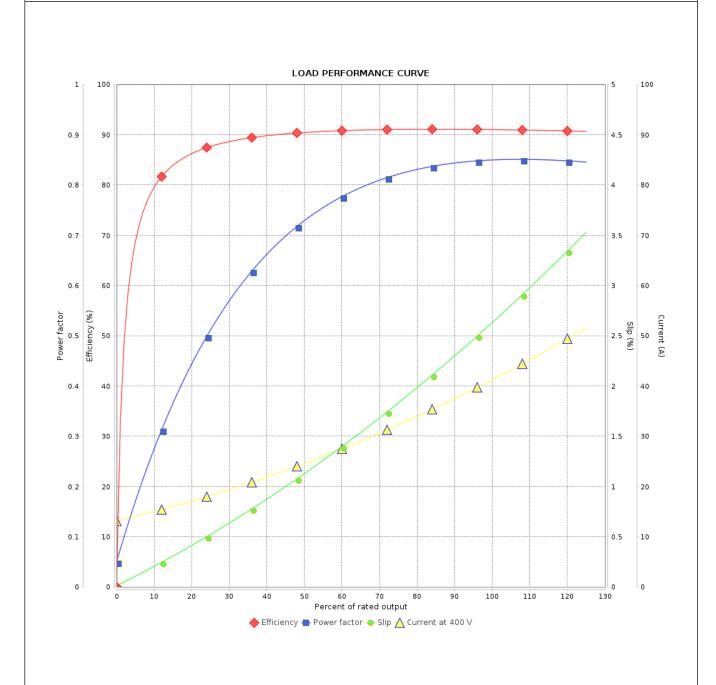
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Date

13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11770612

Three-Phase



Performance	: 400 V 50 Hz 4P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 6.0 : 14.9 kgfm : 190 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Rev. Changes Summary		Performed	Checked	Date	
Performed by						

Page

5/6

Revision

Three Phase Induction Motor - Squirrel Cage



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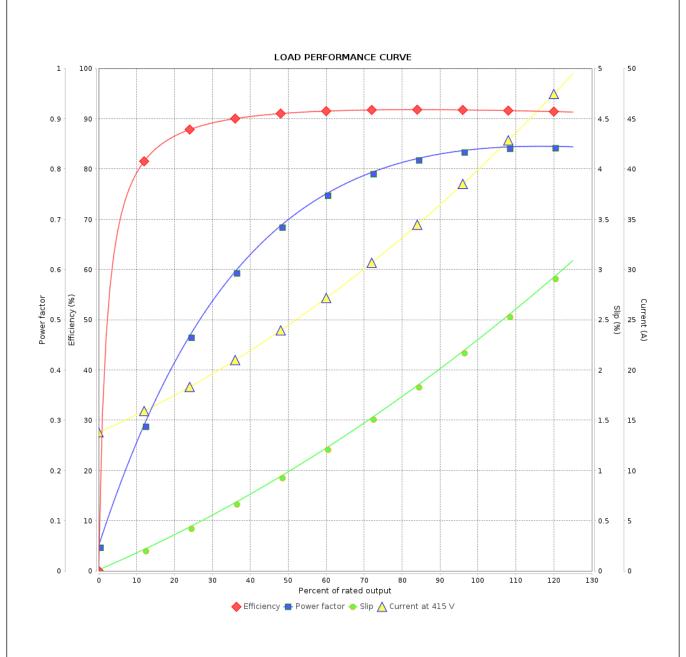
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

11770612

6/6



Performance	: 415 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.7 A : 6.0 : 14.9 kgfm : 220 % : 250 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

13/01/2024

Date