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: 11941734 Three-Phase Frame : 284TC 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 : 185 kg Protection degree : IP55 Moment of inertia (J) : 0.2153 kgm² Design : B Output [HP] 25 25 25 25 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 29.5 35.9 34.3 33.2 L. R. Amperes [A] 183 190 189 196 LRC [A] 6.2x(Code G) 5.3x(Code F) 5.5x(Code F) 5.9x(Code G) No load current [A] 11.0 11.0 11.7 12.4 Rated speed [RPM] 1770 1455 1460 1465 Slip [%] 1.67 3.00 2.67 2.33 Rated torque [kgfm] 10.3 12.5 12.4 12.4 Locked rotor torque [%] 240 180 200 220 Breakdown torque [%] 270 210 240 260 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 43s (cold) 24s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 92.4 92.4 92.4 92.4 Efficiency (%) 75% 93.0 91.7 92.4 92.4 100% 93.6 91.0 91.7 92.4 25% 50% 0.70 0.76 0.73 0.70 Power Factor 75% 0.80 0.84 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) 5.3 5.3 5.3 5.3 P4 (0,9;0,5) 3.1 3.1 Losses (%) 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) 1.0 1.0 1.0 1.0 Non drive end Foundation loads Drive end 6311 C3 6211 C3 Bearing type Max. traction : 368 kgf Sealing Taconite Taconite Max. compression : 553 kgf 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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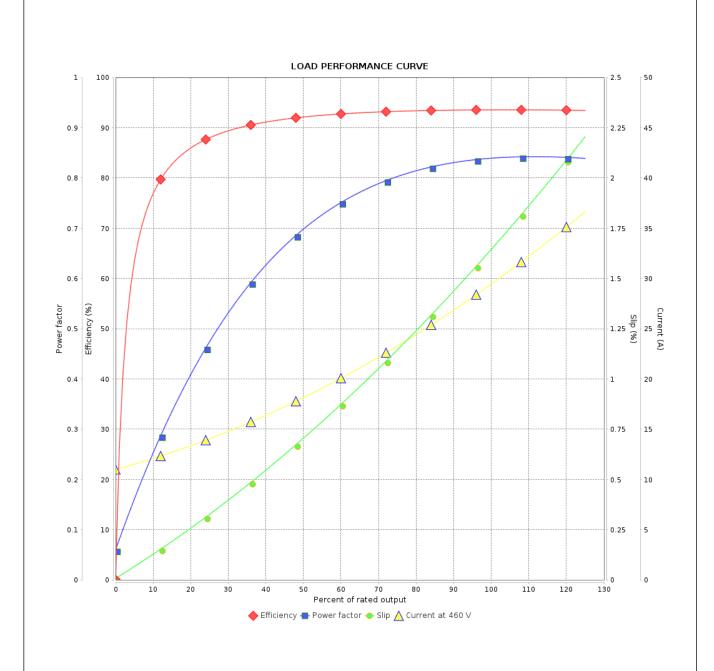
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Date

13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11941734

Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current	: 29.5 A	Moment of inertia (J)		: 0.2153 kgm²	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 10.3 kgfm	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1770 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

3/6

Revision

Three Phase Induction Motor - Squirrel Cage



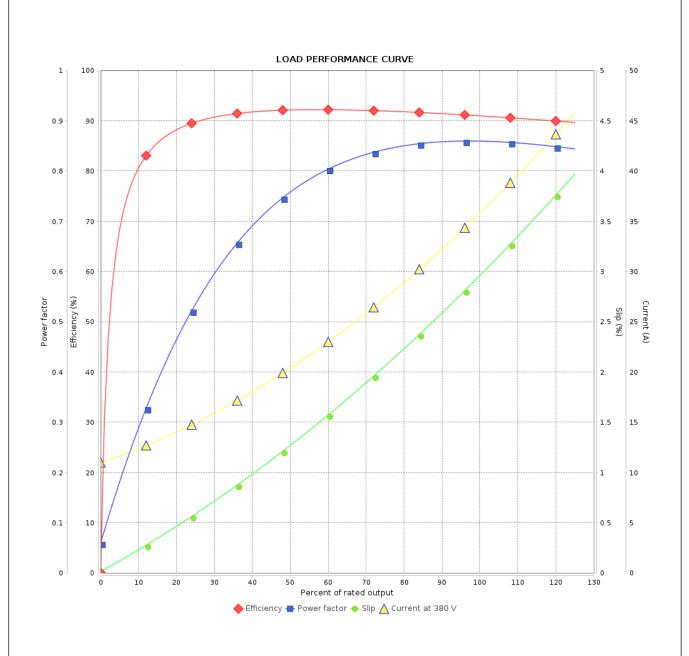
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

11941734

4/6



Performance	: 380 V 50 Hz 4P IE1						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.3 : 12.5 kgfm : 180 % : 210 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 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

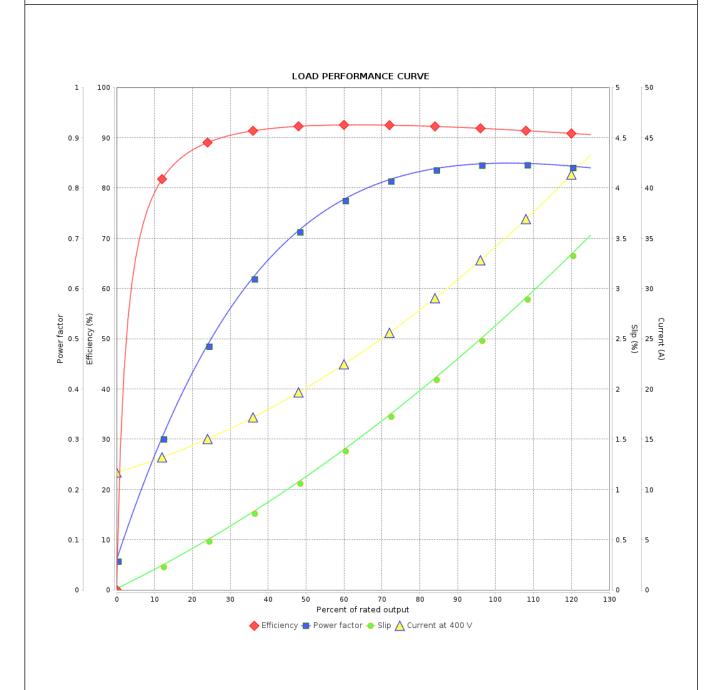
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11941734

Three-Phase



Performance :		: 400 V 50 Hz 4P IE2					
Rated current		4.3 A	Moment of inertia (J)		: 0.2153 kgm²		
LRC		.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		2.4 kgfm	Insulation	Insulation class		:F	
Locked rotor torque		00 %	Service fa	Service factor		: 1.00	
Breakdown torque	e : 24	40 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 14	460 rpm Design			: B		
Rev.		Changes Summar	у	Performed	Checked	Date	
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Performed by							
Checked by					Page	Revision	
Date	13/01/2024				5/6		

Three Phase Induction Motor - Squirrel Cage



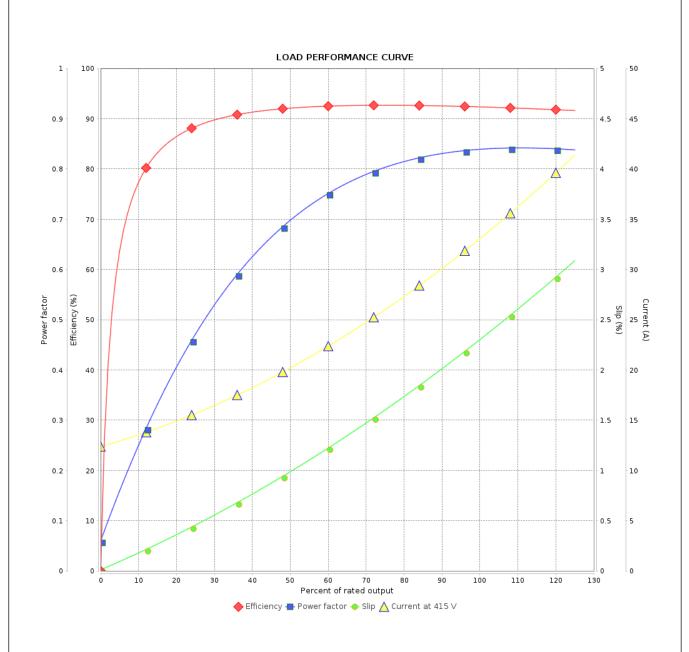
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

11941734

6/6



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.2 A : 5.9 : 12.4 kgfm : 220 % : 260 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 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