DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943461 Efficiency Three-Phase Frame : 364/5TC 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 : 447 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.9798 kgm² Design : B Output [HP] 75 75 75 75 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 87.2 106 102 98.7 L. R. Amperes [A] 558 541 571 602 LRC [A] 6.4x(Code G) 5.1x(Code E) 5.6x(Code F) 6.1x(Code G) No load current [A] 33.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1475 1475 1480 Slip [%] 1.11 1.67 1.67 1.33 Rated torque [kgfm] 30.5 36.9 36.8 36.8 Locked rotor torque [%] 240 170 200 210 Breakdown torque [%] 260 200 220 240 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K 18s (cold) 10s (hot) Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 94.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.1 94.5 94.5 100% 95.4 93.6 94.1 94.5 25% 50% 0.68 0.75 0.70 0.67 Power Factor 75% 0.78 0.82 0.80 0.78 0.84 0.83 0.82 100% 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power 4.7 P1 (0,9;1,0) 4.7 4.7 P2 (0,5;1,0) 3.7 3.7 3.7 3.7 P3 (0,25;1,0) 3.4 3.4 3.4 3.4 P4 (0,9;0,5) 2.4 2.4 2.4 Losses (%) 2.4 P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 Drive end Non drive end Foundation loads 6314 C3 6314 C3 Bearing type Max. traction : 768 kgf Sealing **Taconite** Taconite : 1215 kgf Max. compression Labyrinth Labyrinth 12000 h 12000 h Lubrication interval Lubricant amount 27 g 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 Rev. Date Performed by Checked by Page Revision

1/6

22/10/2024

Date

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : Notes	
Notes	
Rev. Changes Summary Performed Checked	Date
2 Changes Sammary 1 Changes Smoothed	•
Performed by	
Checked by Page F Date 22/10/2024 2 / 6	Revision

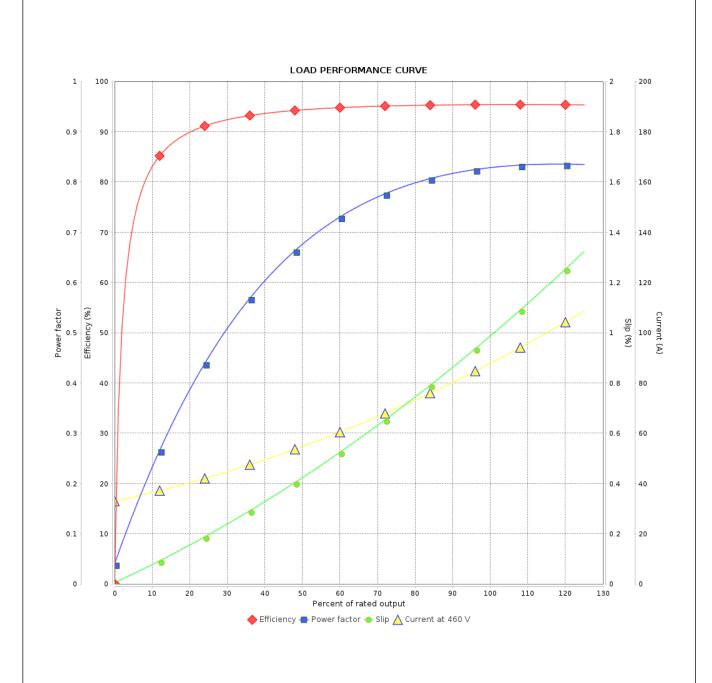
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943461

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P				
Rated current	ated current : 87.2 A Mome		: 87.2 A Moment of in		: 0.9798 kgm	2
LRC		: 6.4	Duty cycle)	: Cont.(S1)	
Rated torque		: 30.5 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 240 %	Service factor		: 1.25	
Breakdown torqu	ıe	: 260 %	Temperati	ıre rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date

	3		
		Page	Revision
22/10/2024		3/6	
	22/10/2024		Page

Three Phase Induction Motor - Squirrel Cage

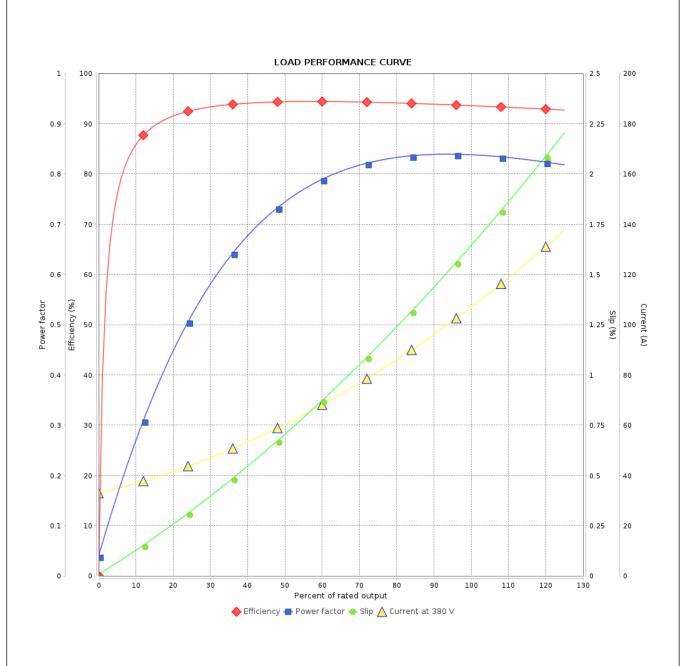


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943461



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.1 : 36.9 kgfm : 170 % : 200 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

4/6

22/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



11943461

Page

5/6

Revision

Customer :

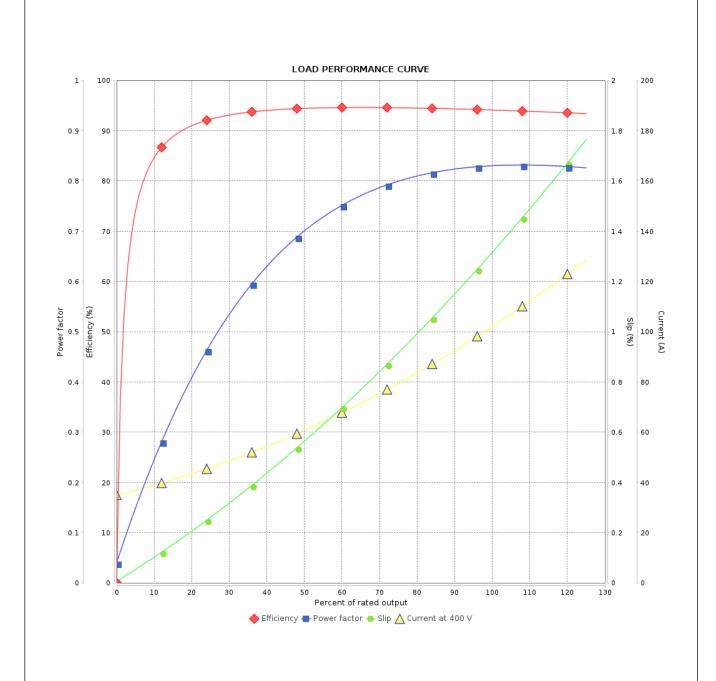
Checked by

Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE2				
Rated current : 102 A		class ctor	: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary	1	Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage

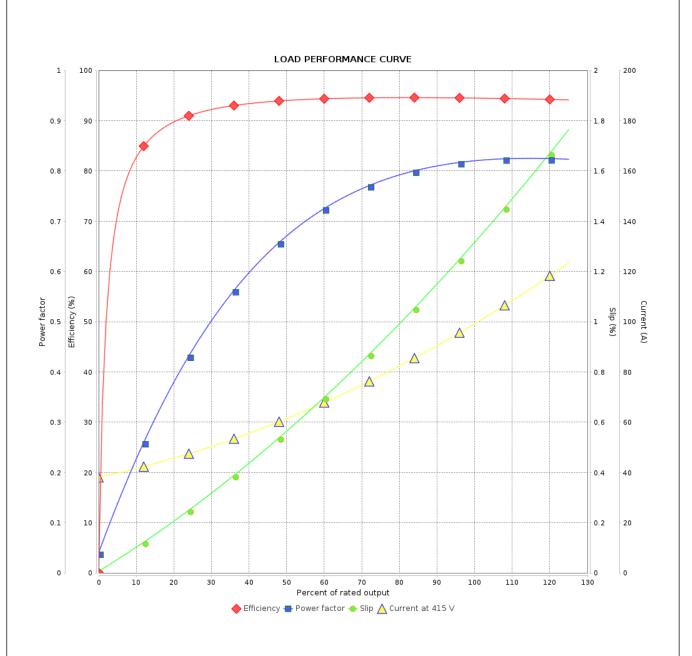


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943461



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.7 A : 6.1 : 36.8 kgfm : 210 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	y cycle : Cont.(S1) ulation class : F vice factor : 1.00 nperature rise : 105 K	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

6/6

22/10/2024

Date

