DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11770612 Efficiency Three-Phase Frame Cooling method : IC411 - TEFC : 284/6T 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 : 206 kg 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 : 428 kgf Max. traction 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 Checked by Page Revision

1/6

22/10/2024

Date

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		•	3			
Customer	:					
Notes						
1			Ţ		Γ	
Rev.		Changes Summary	F	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Checked by					Page	νς∧ιριη

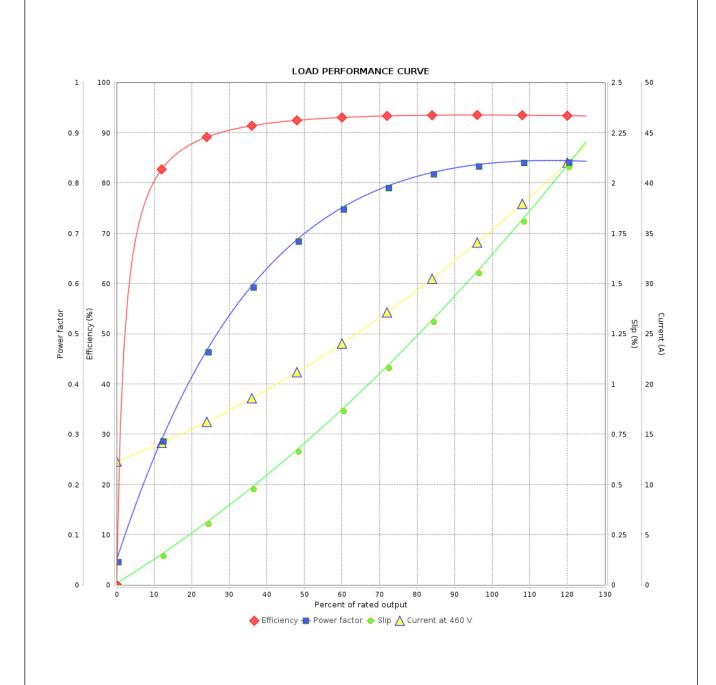
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P					
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 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							

Checked by			Page	Revision	
Date	22/10/2024		3/6		
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without writter	authorization of WE	G S/A.	
Subject to change without notice					

Three Phase Induction Motor - Squirrel Cage

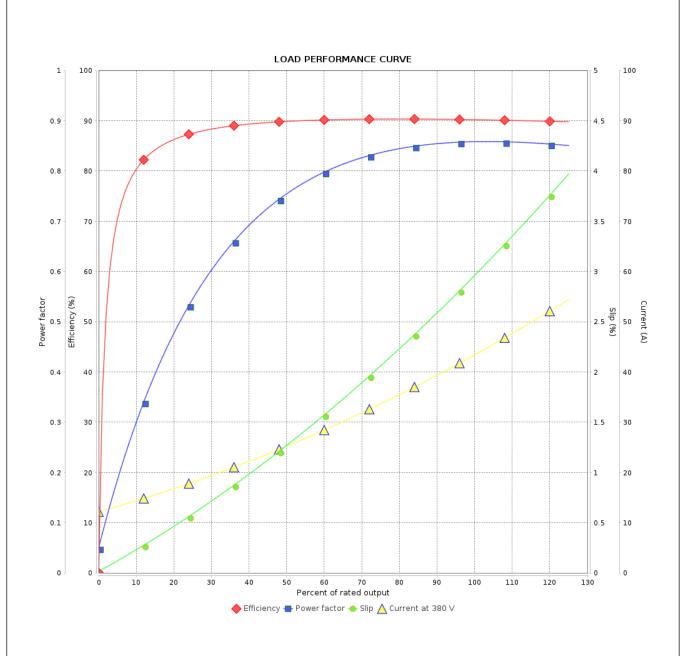


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11770612



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	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

4/6

22/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

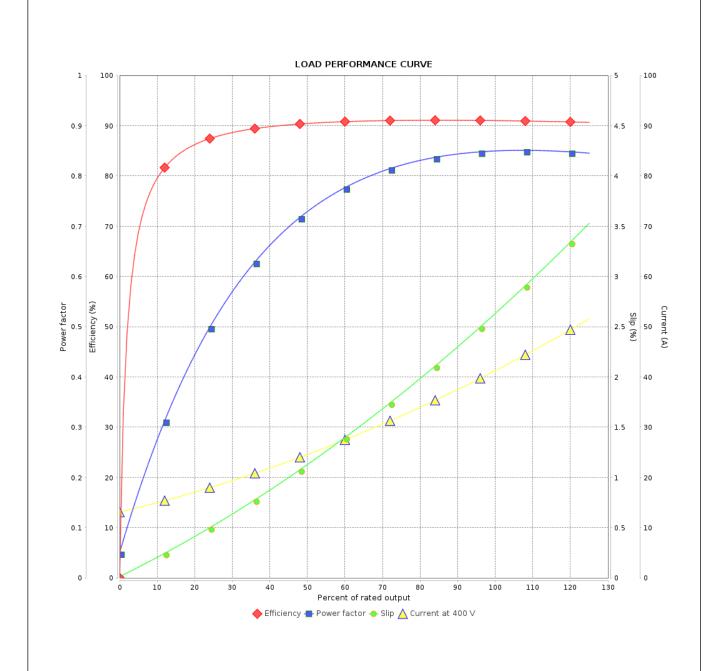


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11770612



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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/10/2024			5/6	

Three Phase Induction Motor - Squirrel Cage

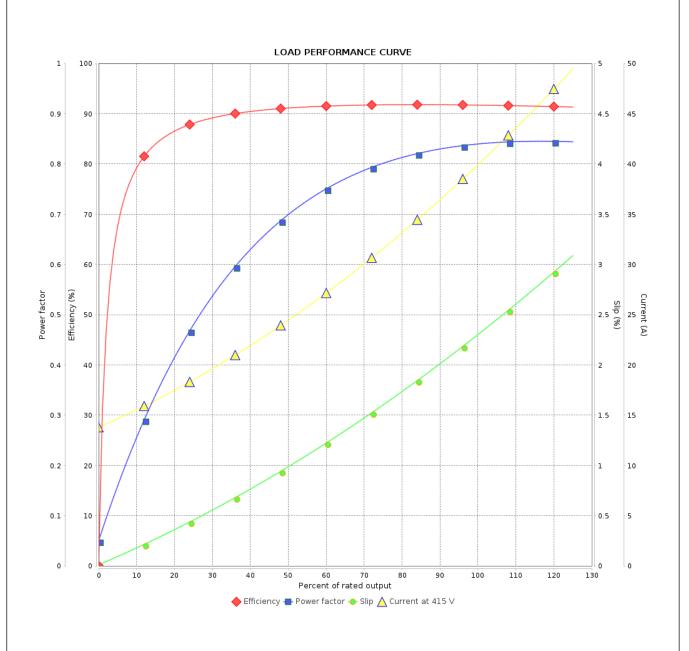


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11770612



Df	. 445 \ / 50 \ \ \ = 4D \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	·			
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC	: 39.7 A : 6.0	Moment of inertia (J) Duty cycle		: 0.2467 kgm² : Cont.(S1)	
Rated torque Locked rotor torque	: 14.9 kgfm : 220 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed	: 250 % : 1465 rpm	Temperature rise Design		: 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6

22/10/2024

Date

