DATA SHEET

Checked by

Date

27/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11584390 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 : 194 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.3448 kgm² Design : B Output [HP] 15 15 15 15 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 19.6 23.6 22.7 22.1 L. R. Amperes [A] 108 101 109 113 LRC [A] 5.5x(Code G) 4.3x(Code D) 4.8x(Code F) 5.1x(Code F) No load current [A] 9.80 9.70 10.5 11.1 Rated speed [RPM] 880 720 725 730 Slip [%] 2.22 4.00 3.33 2.67 Rated torque [kgfm] 12.4 15.1 15.0 14.9 Locked rotor torque [%] 200 150 170 190 Breakdown torque [%] 229 180 200 220 Service factor 1.25 1.00 1.00 1.15 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 45s (cold) 25s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 85.5 88.0 88.0 88.0 Efficiency (%) 75% 90.0 88.5 88.5 88.5 100% 90.2 88.6 88.6 88.6 25% 50% 0.62 0.68 0.64 0.62 Power Factor 75% 0.72 0.76 0.74 0.73 0.78 0.80 0.79 0.78 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.3 10.3 10.3 10.3 P2 (0,5;1,0) 8.2 8.2 8.2 8.2 P3 (0,25;1,0) 7.6 7.6 7.6 7.6 P4 (0,9;0,5) Losses (%) 5.5 5.5 5.5 5.5 P5 (0,5;0,5) 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.7 2.7 2.7 2.7 P7 (0,25;0,25) 1.8 1.8 1.8 1.8 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 372 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 566 kgf 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type 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 MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by

Page

1/6

Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		•	3			
Customer	:					
Notes						
Rev.		Changes Summary		Performed	Checked	Date
ivev.		Changes Summary		1 GHOITHEU	Oneckeu	Date
Performed by						
Checked by					Page	Revision
_		1			1	1

Three Phase Induction Motor - Squirrel Cage

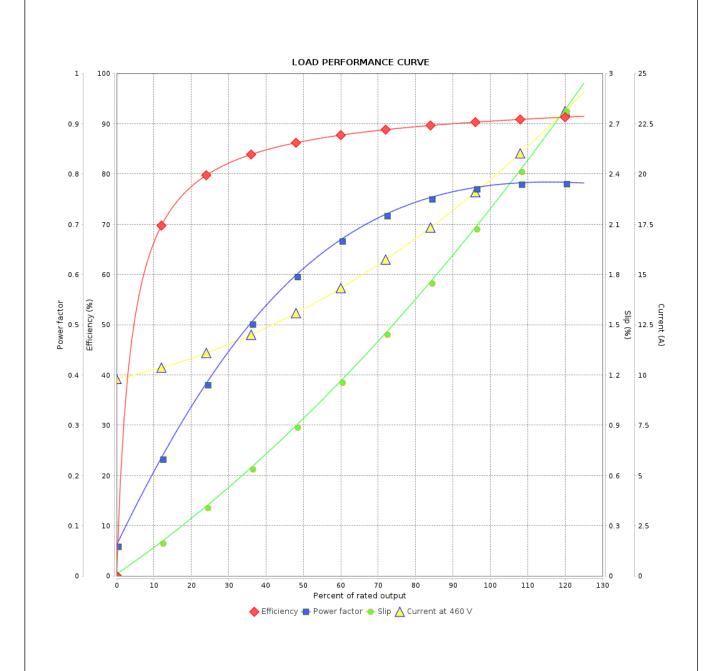


Customer :

Product line : W22 IEEE 841 NEMA Premium Prod

Efficiency Three-Phase

Product code: 11584390



Performance : 460 V 60 Hz 8P : 19.6 A Rated current Moment of inertia (J) : 0.3448 kgm² **LRC** : 5.5 Duty cycle : Cont.(S1) : 12.4 kgfm : F Rated torque Insulation class Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

			3		. =	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	27/10/2024				3/6	

Three Phase Induction Motor - Squirrel Cage

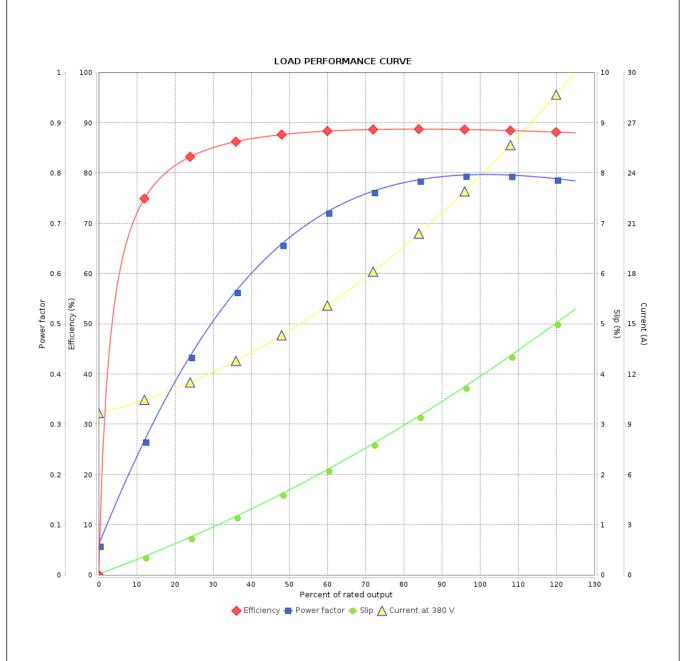


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11584390



Performance	: 380 V 50 Hz 8P IE3						
Rated current	: 23.6 A	Moment of inertia (J)		: 0.3448 kgm²			
LRC	: 4.3	Duty cycle		: Cont.(S1)			
Rated torque	: 15.1 kgfm Insulation cla : 150 % Service facto		class	: F			
Locked rotor torque			ctor : 1.00				
Breakdown torque	: 180 %	Temperature rise Design		: 105 K			
Rated speed	: 720 rpm			: B			
Rev.	Changes Summary		Performed	Checked	Date		
Darfarmed by							
Performed by							
Checked by				Page	Revision		

4/6

27/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

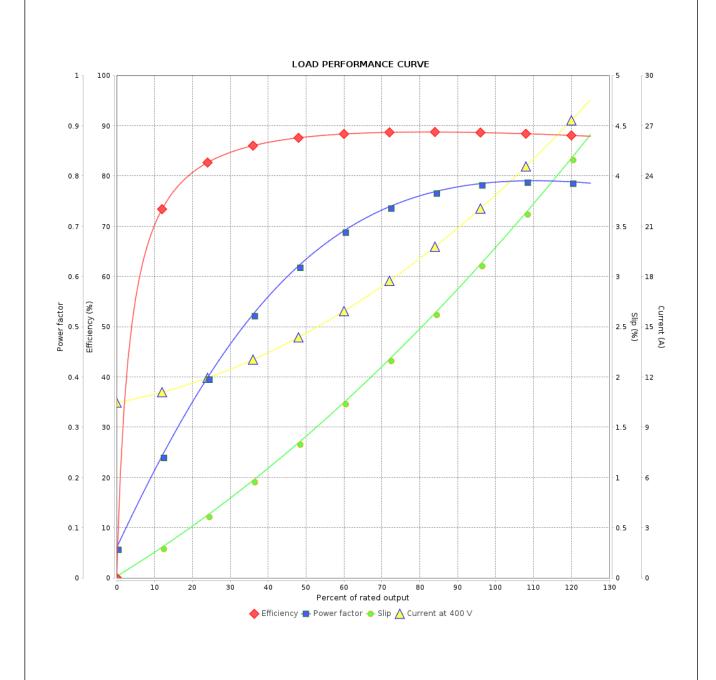


11584390

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Rev.	Changes Sum	nmary Performe	ed Checked	Date		
Rated speed : 725 rpm		Design	: B	: B		
Breakdown torque	: 200 %	Temperature rise	: 105 K			
Locked rotor torq	ıe : 170 %	Service factor	: 1.00	: 1.00		
Rated torque	: 15.0 kgfm	Insulation class	: F	: F		
LRC	: 4.8	Duty cycle	: Cont.(S1)	: Cont.(S1)		
Rated current	: 22.7 A	Moment of inertia (J)	Ioment of inertia (J) : 0.3448 kgm²			
Performance	: 400 V 50 Hz 8P	: 400 V 50 Hz 8P IE3				

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2024			5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

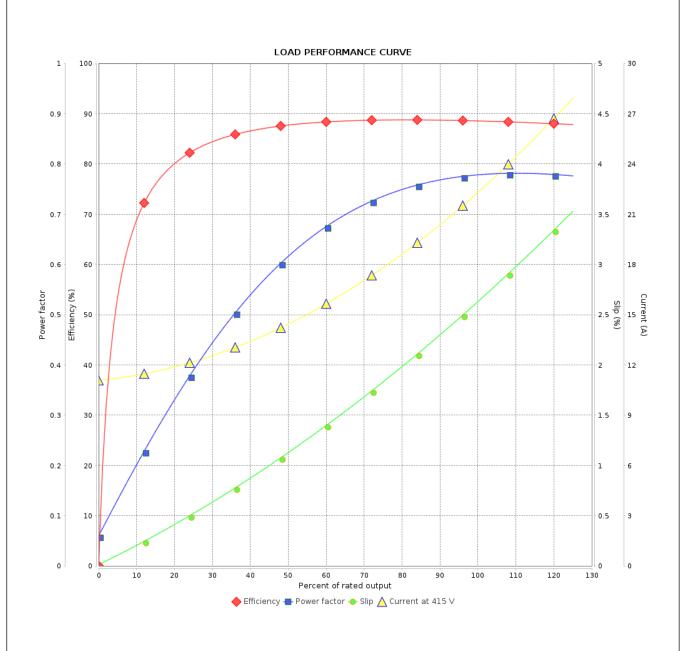
Date

27/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11584390



Performance : 415 V 50 Hz 8P IE3 : 22.1 A : 0.3448 kgm² Rated current Moment of inertia (J) **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.9 kgfm : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 730 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/6

