DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13025320 Three-Phase Frame : 404/5TSC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 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 : 521 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 224/112 99.6 94.6 92.2 L. R. Amperes [A] 1456/728 677 719 756 LRC [A] 6.5x(Code G) 6.8x(Code G) 7.6x(Code H) 8.2x(Code J) No load current [A] 52.0/26.0 25.7 27.5 29.1 Rated speed [RPM] 3545 2955 2960 2965 Slip [%] 1.53 1.50 1.33 1.17 Rated torque [kgfm] 20.5 18.4 18.4 18.4 Locked rotor torque [%] 240 250 280 300 Breakdown torque [%] 260 280 310 330 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 18s (cold) 10s (hot) Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 93.0 93.0 93.1 93.5 Efficiency (%) 75% 94.1 93.8 93.8 94.0 100% 94.1 94.3 94.3 94.3 25% 50% 0.83 0.82 0.80 0.78 Power Factor 75% 0.88 0.88 0.86 0.85 0.89 0.89 0.88 100% 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Non drive end Foundation loads Drive end Bearing type 6314 C3 6314 C3 Max. traction : 336 kgf Sealing WSeal WSeal Max. compression : 857 kgf 4000 h 4000 h Lubrication interval Lubricant amount 27 g 27 q 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 Checked by Page Revision

1/6

19/10/2024

DATA SHEET

Checked by

Date

19/10/2024



Customer : Notes USABLE @208V 243A SF 1.10 SFA 268A	
Notes USABLE @208V 243A SF 1.10 SFA 268A	
Rev. Changes Summary Performed Checked Performed by	Date

Page

2/6

Revision

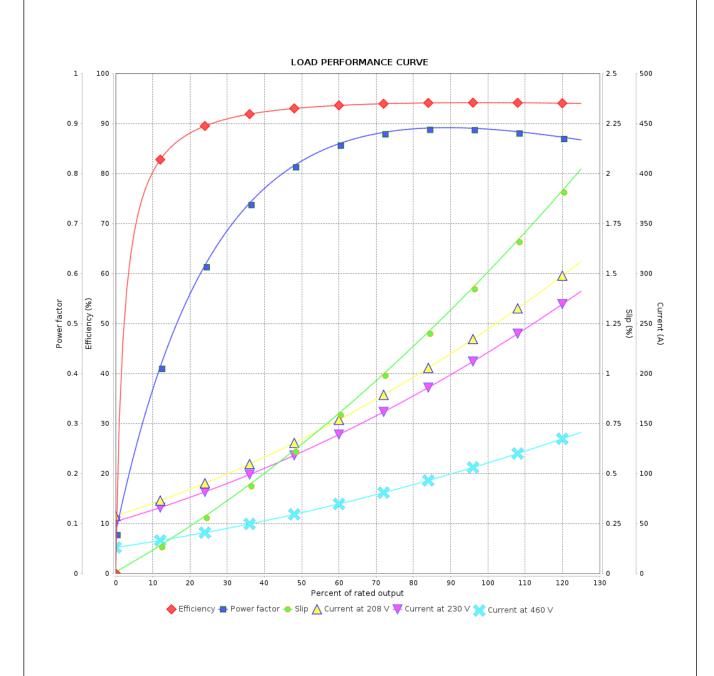
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13025320

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 224/112 A : 6.5 : 20.5 kgfm : 240 % : 260 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

3/6

19/10/2024

Three Phase Induction Motor - Squirrel Cage

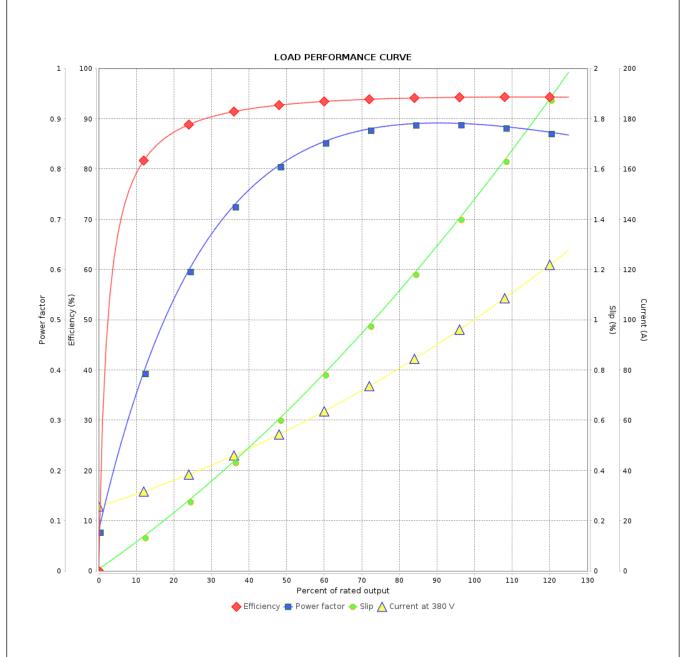


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13025320



D	. 200 \/	50 LI= 0D IE0			1	
Performance	: 380 V	50 Hz 2P IE3				
Rated current	: 99.6 A		Moment of inertia (J)		: 0.5561 kgm²	
LRC	: 6.8		Duty cycle		: Cont.(S1)	
Rated torque	: 18.4 kg	gfm	Insulation class Service factor Temperature rise		: F : 1.00 : 80 K	
Locked rotor torqu	ue : 250 %					
Breakdown torqu	e : 280 %					
Rated speed	: 2955 r	pm	Design		: B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision

4/6

19/10/2024

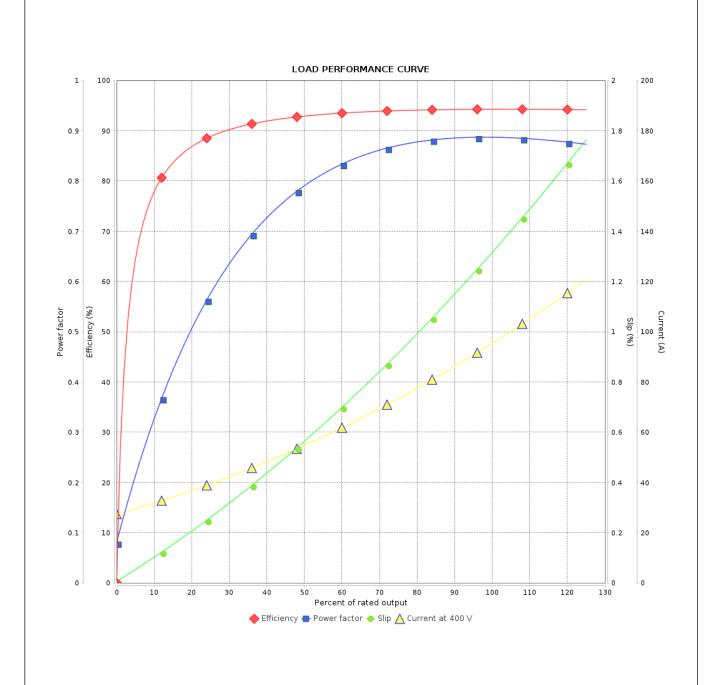
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13025320

Three-Phase



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current			` '	: 0.5561 kgm²		
LRC Rated torque Locked rotor torque		.6 Duty cycle 8.4 kgfm Insulation class 80 % Service factor			: Cont.(S1) : F : 1.00	
Breakdown torque	: 31	: 310 % Temperate	ure rise	: 80 K		
Rated speed	: 29	960 rpm	Design		: B	
Rev.	Rev. Changes Summary		Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	19/10/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

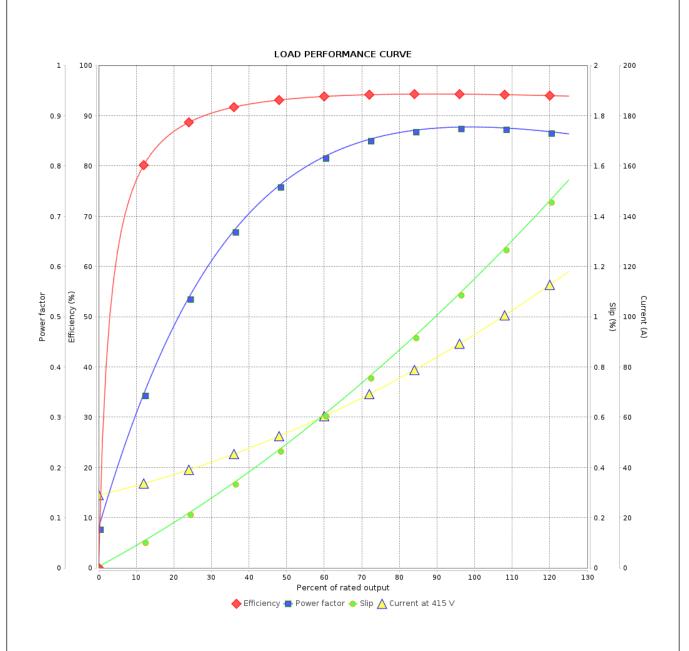
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

13025320

6/6



D (445.7750.11. 00.150				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 92.2 A : 8.2 : 18.4 kgfm : 300 % : 330 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

19/10/2024

