DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11568843 Frame : 284/6T 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 : 190 kg Protection degree : IP55 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] 230/460 380 400 415 Rated current [A] 39.2/19.6 23.6 22.7 22.1 L. R. Amperes [A] 216/108 101 109 113 LRC [A] 5.5x(Code G) 4.3x(Code D) 4.8x(Code F) 5.1x(Code F) No load current [A] 19.6/9.80 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 32s (cold) 18s (hot) Locked rotor time 45s (cold) 25s (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 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 : 374 kgf Sealing V'Ring V'Ring Max. compression : 564 kgf 20000 h Lubrication interval 20000 h 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Changes Summary Rev Performed Chackad Data

1101.		Changes Sammary	1 ononnoa	Oncoroa	Date
Performed by					
Checked by				Page	Revision
Date	01/02/2024			1/6	
This do	authorization of ME	C C/A			

DATA SHEET



Three Phase Induction Motor - Squirrel Cage	<u> </u>
Customer :	
Notes	
JSABLE @208V 42.9A SF 1.15 SFA 49.3A	

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	01/02/2024	1		2/6	

Three Phase Induction Motor - Squirrel Cage

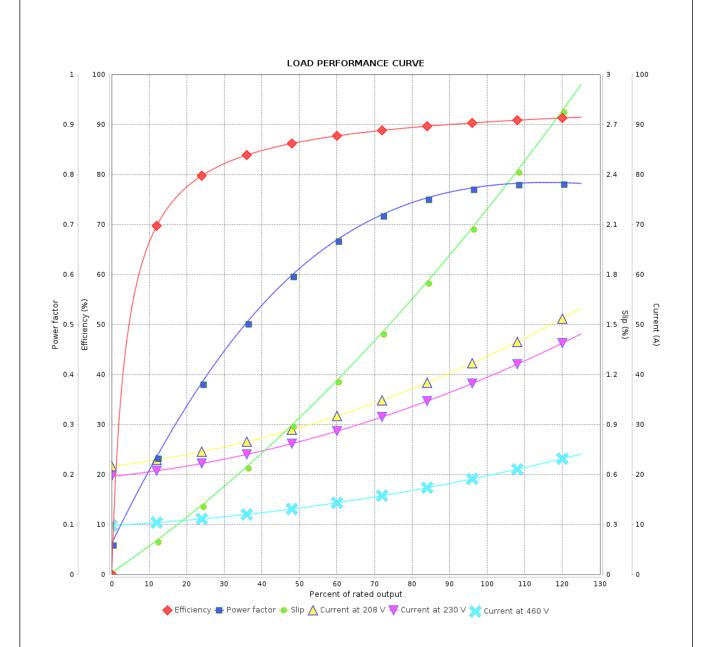


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Dhasa

Product code: 11568843



Performance		: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 39.2/19.6 A : 5.5 : 12.4 kgfm : 200 % : 229 %	Duty cycle Insulation Service fa Temperat	class actor	: 0.3448 kgm : Cont.(S1) : F : 1.25 : 80 K	2
Rated speed		: 880 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date

•		·				
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	01/02/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

01/02/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

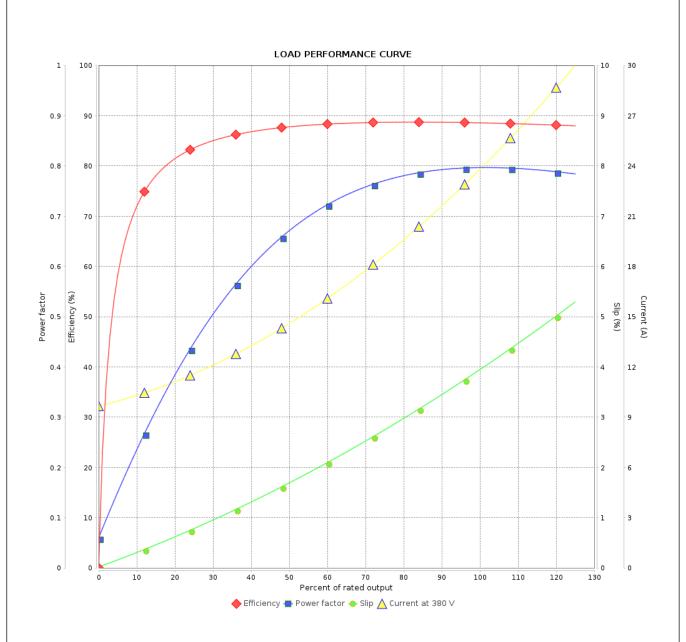
11568843

Page

4/6

Revision





Performance		: 380 V 50 Hz 8P I	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 23.6 A : 4.3 : 15.1 kgfm : 150 % : 180 % : 720 rpm	Duty cyc Insulatio Service	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage

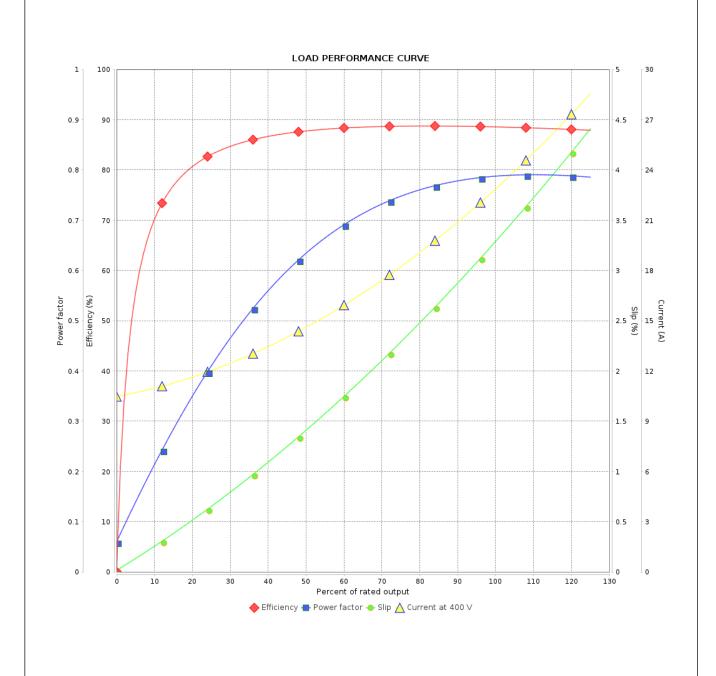


Customer :

Product line : W22 NEMA Premium Efficiency Three- Pr

Phase

Product code: 11568843



Performance	:	: 400 V 50 Hz 8P IE3						
Rated current		: 22.7 A Moment of inertia		f inertia (J)	ertia (J) : 0.3448 kgm²			
LRC	:	4.8	Duty cycle	;	: Cont.(S1)			
Rated torque	:	: 15.0 kgfm Insulati		class				
Locked rotor torque	e :	170 %	<u>-</u>					
Breakdown torque	:	: 200 %		Temperature rise				
Rated speed	: 725 rpm		Design		: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Data	01/02/2024				5/6			

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

01/02/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

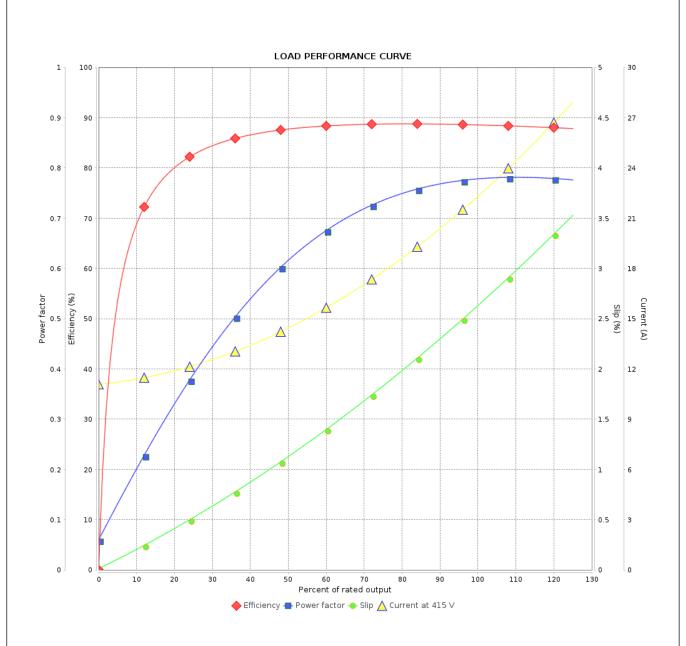
11568843

Page

6/6

Revision





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