DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11456700 Frame : 213/5TC 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 : 78.1 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.20 7.82 7.65 L. R. Amperes [A] 92.9/46.4 45.1 47.7 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 54s (cold) 30s (hot) Locked rotor time 102s (cold) 57s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.5 12.3 11.1 14.4 P2 (0,5;1,0) 9.1 11.1 10.1 11.8 P3 (0,25;1,0) 9.8 8.8 11.4 10.8 P4 (0,9;0,5) 7.1 Losses (%) 5.8 7.5 6.4 P5 (0,5;0,5) 4.5 4.0 5.2 4.9 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 134 kgf Sealing V'Ring V'Ring Max. compression : 212 kgf Lubrication interval Lubricant amount 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).
- (3) Approximate weight subject to changes after manufacturing process

manufacturing process.					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	19/05/2024			1/6	

DATA SHEET

USABLE @208V 15.1A SF 1.15 SFA 17.4A

Three Phase Induction Motor - Squirrel Cage



Customer	:		
Notes			

Rev.		Changes Summary	Performed	Checked	Date
erformed by					
Checked by				Page	Revision
Date	19/05/2024			2/6	

Three Phase Induction Motor - Squirrel Cage



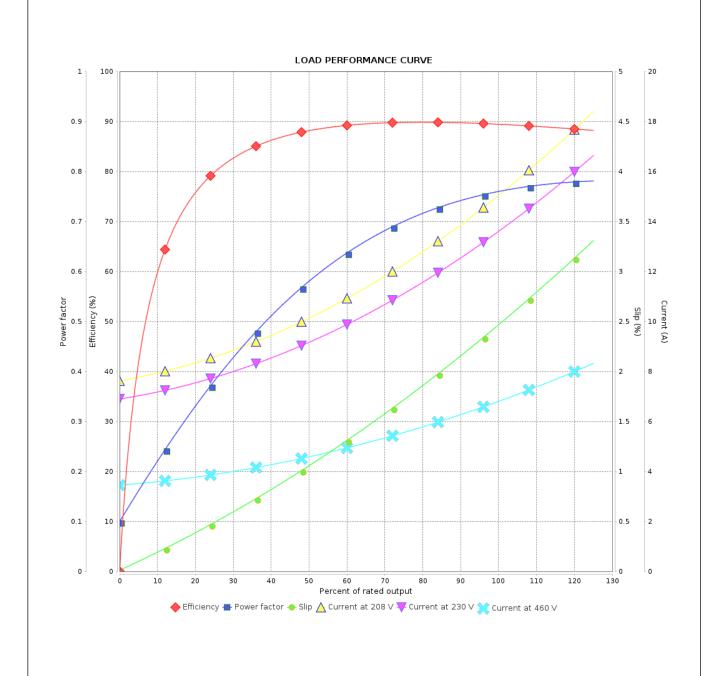
Customer :

Product line : W22 NEMA Premium Efficiency Three-

W22 NEWA FIEIHIUH EHICIERCY THEE-

Product code:

11456700



Performance	::	230/460 V 60 Hz 6P				
Rated current	:	13.7/6.83 A	.7/6.83 A Moment of inertia (J)		: 0.0620 kgm²	
LRC : Rated torque :		6.8			: Cont.(S1)	
		3.10 kgfm Insulation class		: F		
		170 %	<u> </u>		: 1.25	
Breakdown torque		Temperature rise Design		ure rise	: 80 K	
Rated speed	: '			: B		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	19/05/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

19/05/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

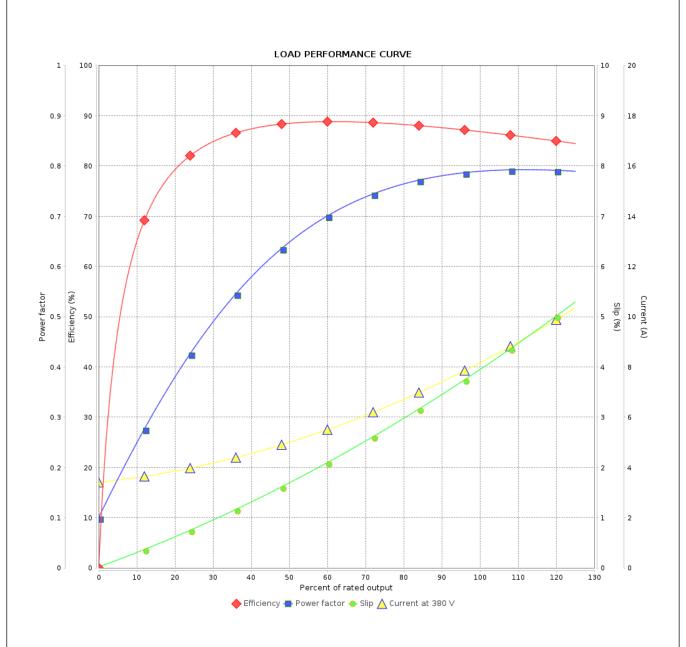
11456700

Page

4/6

Revision





Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Changes Summary		Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage

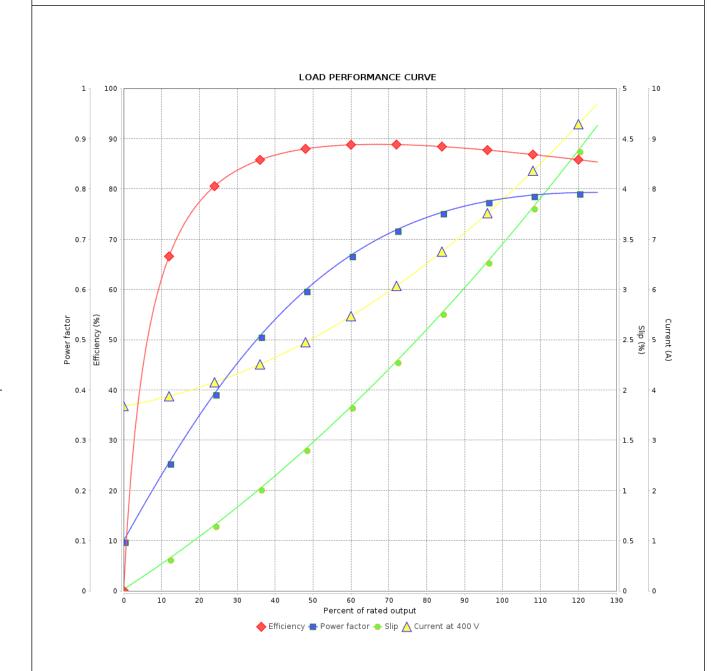


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

11456700



Performance	: 4	100 V 50 Hz 6P IE3					
Rated current	: 7	Moment of inertia (J) Duty cycle 3.76 kgfm Insulation class 160 % Service factor 220 % Temperature rise		f inertia (J)	: 0.0620 kgm²		
LRC	: 6			e : Cont.(S		1)	
Rated torque	: 3			class	: F : 1.00		
Locked rotor torqu	ue : 1			ctor			
Breakdown torque	e : 2			ıre rise	: 80 K		
Rated speed	ated speed : 9		om Design		: B		
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	19/05/2024				5/6		

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-

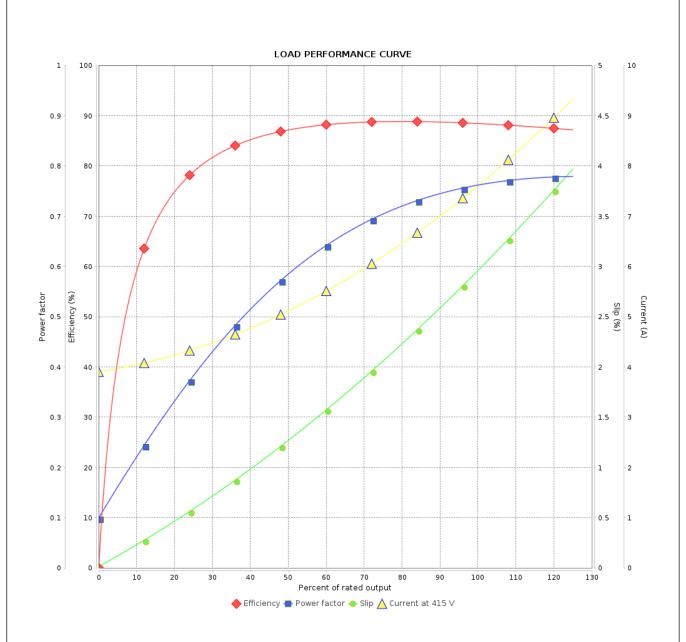
Product code:

11456700



19/05/2024

Date



Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 7.65 A Moment o		inertia (J)	: 0.0620 kgm² : Cont.(S1) : F	
LRC	: 6.5	Duty cycle Insulation class Service factor Temperature rise			
Rated torque	: 3.74 kgfm				
Locked rotor torque	: 190 %			: 1.00	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 970 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6