DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12163447 Frame Cooling method : IC411 - TEFC : 447/9T 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 : 1294 kg Altitude : 3.77 kgm² Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 300 250 250 250 Poles 4 4 4 4 50 50 50 Frequency [Hz] 60 Rated voltage [V] 460 380 400 415 Rated current [A] 330 337 320 311 L. R. Amperes [A] 2145 2056 2144 2239 LRC [A] 6.5x(Code G) 6.1x(Code F) 6.7x(Code G) 7.2x(Code H) No load current [A] 105 104 111 116 Rated speed [RPM] 1780 1480 1480 1485 Slip [%] 1.11 1.33 1.33 1.00 Rated torque [kgfm] 122 123 123 122 Locked rotor torque [%] 250 210 240 260 Breakdown torque [%] 250 220 250 270 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 28s (cold) 16s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 75.0 dB(A) 71.0 dB(A) 71.0 dB(A) 71.0 dB(A) 25% 50% 95.8 95.8 95.8 95.4 Efficiency (%) 75% 96.2 95.8 96.2 95.8 100% 96.2 96.0 96.0 96.2 25% 50% 0.77 0.78 0.75 0.73 Power Factor 75% 0.84 0.84 0.83 0.82 0.87 0.87 0.86 100% 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.8 4.5 4.5 4.8 P2 (0,5;1,0) 3.3 3.5 3.5 3.3 P3 (0,25;1,0) 2.7 2.7 3.0 3.0 P4 (0,9;0,5) 2.5 2.7 2.5 Losses (%) 2.7 P5 (0,5;0,5) 1.5 1.6 1.6 1.5 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Non drive end Foundation loads Drive end Bearing type 6322 C3 6319 C3 Max. traction : 2239 kaf Sealing WSeal WSeal Max. compression : 3533 kgf 8000 h Lubrication interval 6000 h Lubricant amount 60 g 45 q Mobil Polyrex EM Lubricant type

This revision replaces and cancel the previous one, which must be eliminated.

- (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

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

manulaciuming pi	100033.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/6	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		•	3		
Customer	:				
	·				
Notes					
		01 0	<u> </u>		
Rev.		Changes Summary	Performed	Checked	Date
Performed by					I
				D	Davidat
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



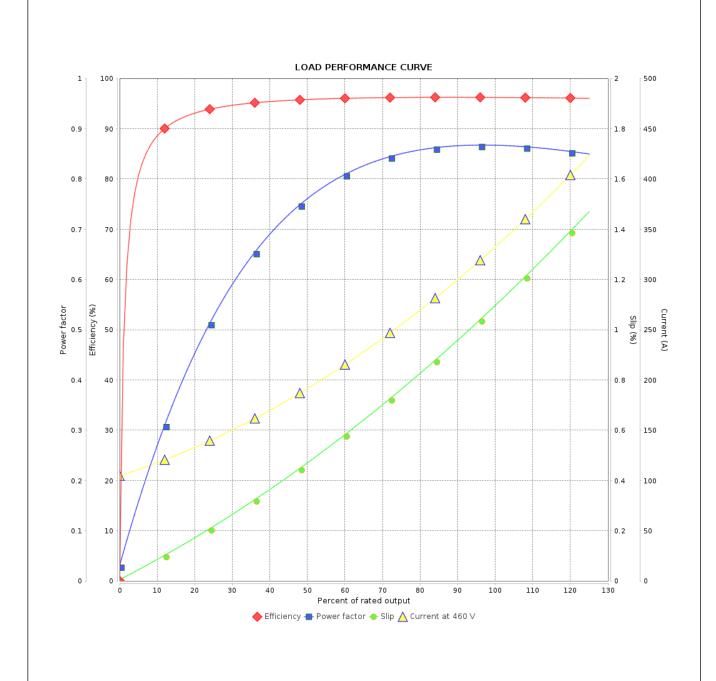
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phone

Product code:

12163447



Performance	: 4	160 V 60 Hz 4P				
Rated current	: 3	30 A Moment of inertia (J)		: 3.77 kgm²		
LRC	: 6	3.5	Duty cycle		: Cont.(S1)	
Rated torque	: 1	122 kgfm	Insulation class		: F	
Locked rotor torqu	ie : 2	250 %	Service fa	Service factor		
Breakdown torque	: 2	: 250 % Tem		ıre rise	: 80 K	
Rated speed	: 1780 rpm		Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

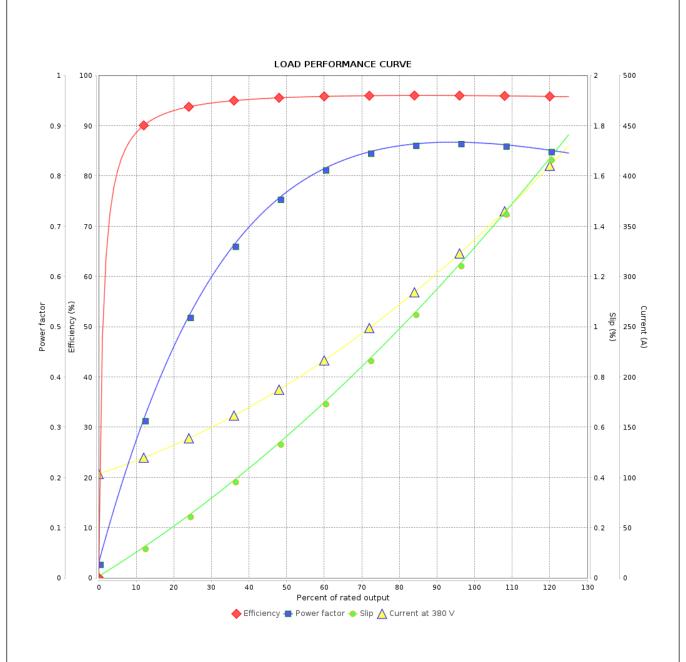
Product code:

12163447

Phase

13/01/2024

Date



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 337 A : 6.1 : 123 kgfm : 210 % : 220 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.77 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Performed	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

4/6

Three Phase Induction Motor - Squirrel Cage



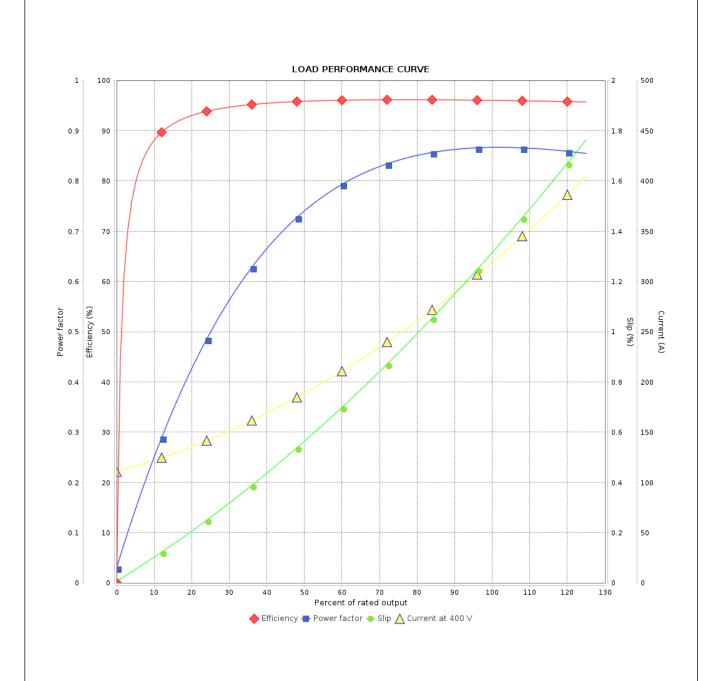
Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 12163447

Phase

13/01/2024

Date



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 320 A : 6.7 : 123 kgfm : 240 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.77 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Perfori	med	Checked	Date
Performed by					
Checked by				Page	Revision

5/6

Three Phase Induction Motor - Squirrel Cage



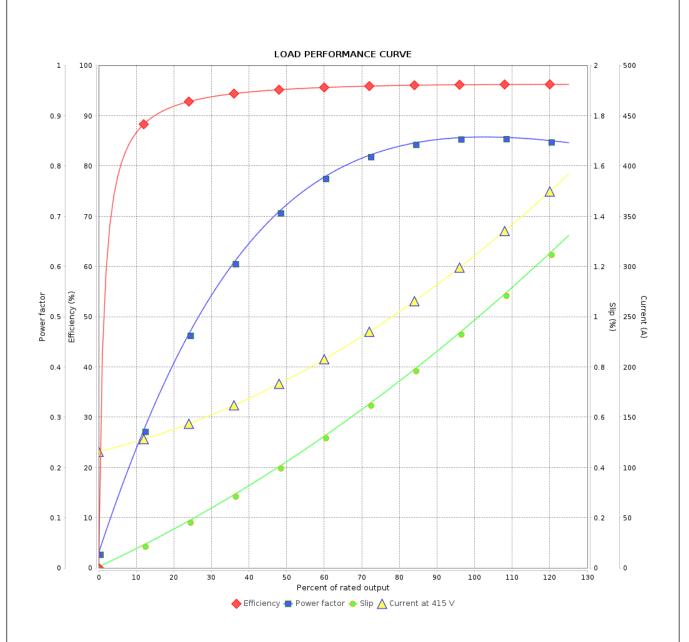
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

12163447





Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 311 A : 7.2 : 122 kgfm : 260 % : 270 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.77 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6

13/01/2024

Date