### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11166724 Frame Cooling method : IC411 - TEFC : 445/7T Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1007 kg Altitude : 3.21 kgm<sup>2</sup> Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 200 200 200 200 Poles 4 4 4 4 60 50 50 50 Frequency [Hz] Rated voltage [V] 230/460 380 400 415 Rated current [A] 460/230 279 264 257 L. R. Amperes [A] 1423 1478 3128/1564 1568 LRC [A] 6.8x(Code G) 5.1x(Code E) 5.6x(Code F) 6.1x(Code G) No load current [A] 140/70.0 69.0 75.0 79.0 Rated speed [RPM] 1785 1475 1480 1480 Slip [%] 0.83 1.67 1.33 1.33 Rated torque [kgfm] 81.3 98.4 98.1 98.1 Locked rotor torque [%] 229 170 190 210 Breakdown torque [%] 250 200 220 240 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 level<sup>2</sup> 73.0 dB(A) 25% 0.000 50% 95.8 94.5 95.0 95.0 Efficiency (%) 75% 96.2 95.0 95.4 95.4 100% 96.2 95.0 95.4 95.4 25% 0.00 50% 0.73 0.78 0.76 0.73 Power Factor 75% 0.82 0.85 0.84 0.82 0.85 0.86 0.85 100% 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.0 4.0 4.0 4.0 P2 (0,5;1,0) 3.2 3.2 3.2 3.2 P3 (0,25;1,0) 2.9 2.9 2.9 2.9 P4 (0,9;0,5) 2.0 2.0 2.0 2.0 Losses (%) P5 (0,5;0,5) 1.3 1.3 1.3 1.3 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 NU-319 C3 6316 C3 Max. traction : 1555 kaf Sealing **WSeal** WSeal Max. compression : 2562 kgf 5000 h 10000 h Lubrication interval Lubricant amount 45 g 34 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 (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.

manadating process.							
Rev.		Changes Summary	Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		
Date	13/01/2024			1/6			

# DATA SHEET

Checked by

Date

13/01/2024



Three Pha	se Induction N	Notor - Squirrel	Cage			ШЕЦ
Customer	:					
Notes USABLE @208\	/ 509A SF 1.00 SFA 5	509A				
Rev.	Cha	anges Summary		Performed	Checked	Date
	,	<b>3</b>				
Performed by						

Page

2/6

Revision

#### Three Phase Induction Motor - Squirrel Cage

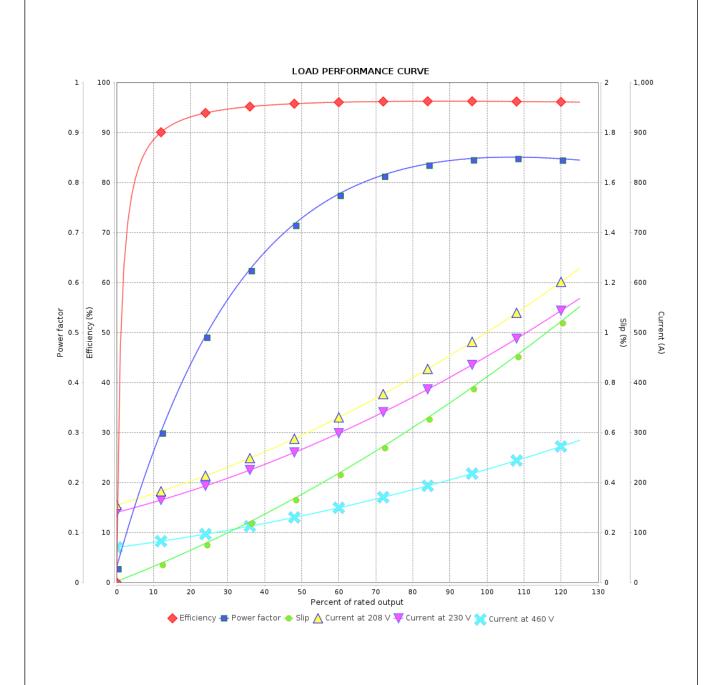


11166724

Customer :

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

Phase



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torgu	: 6 : 8 ue : 2	: 460/230 A : 6.8 : 81.3 kgfm : 229 % : 250 %		of inertia (J) e class actor ure rise	: 3.21 kgm² : Cont.(S1) : F : 1.15 : 80 K	
Rated speed		785 rpm	Design	u. 0 1.00	: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	1			3/6	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

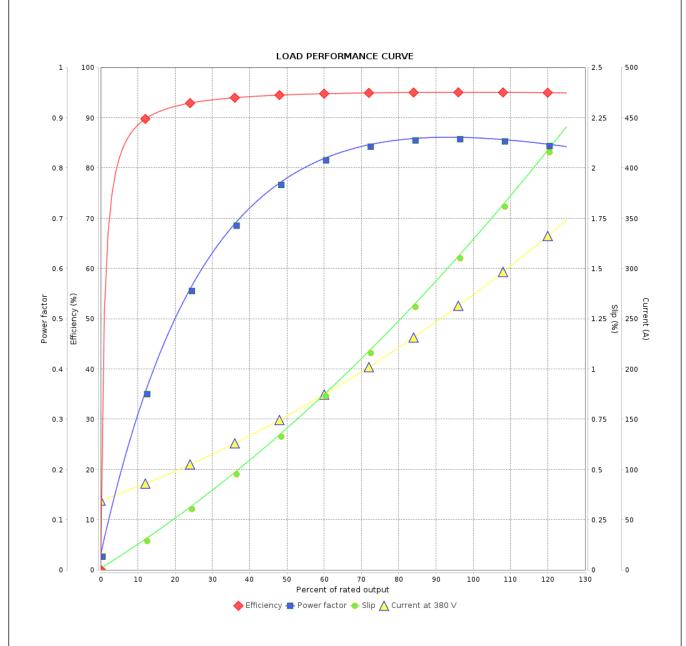
Product code:

11166724



13/01/2024

Date



	·					
Performance	: 38	80 V 50 Hz 4P IE2				
Rated current	: 2	79 A	Moment of	f inertia (J)	: 3.21 kgm²	
LRC	: 5.	.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 98	8.4 kgfm	Insulation	class	: F	
Locked rotor torg	jue : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 20	00 %	Temperat	ure rise	: 105 K	
Rated speed	: 14	475 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
Doutous ad by		I				
Performed by						
Checked by					Page	Revision

4/6

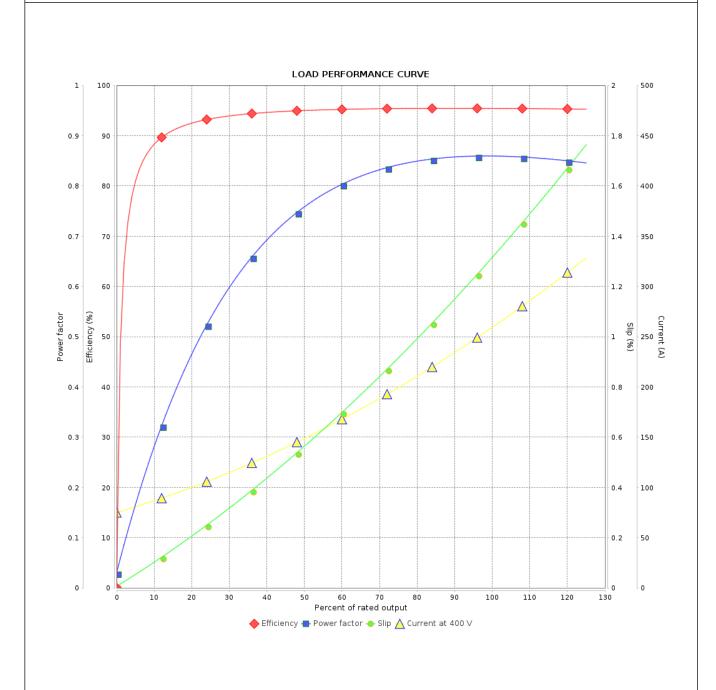
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 11166724

Phase



Performance	: 40	: 400 V 50 Hz 4P IE2						
Rated current LRC Rated torque	: 5.	: 264 A       Moment of Duty cycle         : 5.6       Duty cycle         : 98.1 kgfm       Insulation			: 3.21 kgm² : Cont.(S1) : F			
Locked rotor torque Breakdown torque Rated speed	: 22	90 % 20 % 480 rpm	Service factor Temperature rise Design		: 1.00 : 105 K : B			
Rev.		Changes Summar	у	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	13/01/2024				5/6			

#### Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

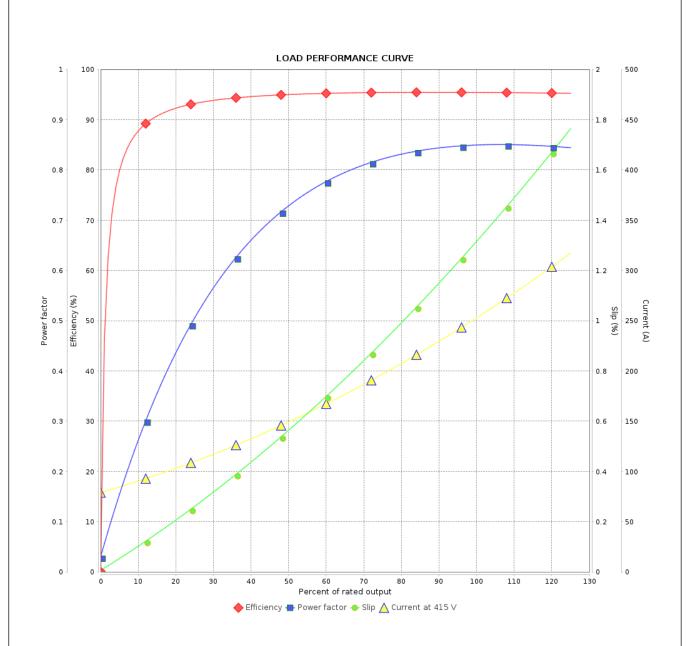
13/01/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

11166724





Performance : 415 V 50 Hz 4P IE2 Rated current : 257 A Moment of inertia (J) : 3.21 kgm<sup>2</sup> **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class Rated torque : 98.1 kgfm : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by