DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11647930 Three-Phase : 182/4T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 44.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0095 kgm² Design : A Output [HP] 7.5 5.5 5.5 5.5 7.5 7.5 7.5 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 17.5/8.76 7.84 7.62 7.47 10.9 10.3 10.0 L. R. Amperes [A] 144/71.8 65.1 69.3 71.7 68.7 72.1 74.0 LRC [A] 8.2x(Code J) 8.3x(Code J) 9.1x(Code K) 9.6x(Code L) 6.3x(Code 7.0x(Code H) 7.4x(Code H) G) No load current [A] 5.80/2.90 2.70 3.00 3.20 2.70 3.00 3.20 Rated speed [RPM] 3485 2900 2910 2915 2810 2840 2860 Slip [%] 3.19 3.33 3.00 2.83 6.33 5.33 4.67 Rated torque [kgfm] 1.56 1.38 1.37 1.37 1.94 1.92 1.90 Locked rotor torque [%] 270 310 350 370 220 250 270 Breakdown torque [%] 330 360 390 430 260 280 310 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 27s (cold) Locked rotor time 30s (cold) 28s (cold) 27s (cold) 27s (cold) 28s (cold) 27s (cold) 17s (hot) 16s (hot) 15s (hot) 15s (hot) 16s (hot) 15s (hot) 15s (hot) Noise level² 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 88.5 85.5 85.9 86.2 87.0 87.5 88.0 Efficiency (%) 75% 89.5 87.0 87.6 88.1 87.0 88.0 88.5 100% 89.5 88.1 88.1 88.7 84.5 86.0 87.0 25% 50% 0.75 0.70 0.66 0.63 0.80 0.77 0.74 Power Factor 75% 0.84 0.82 0.79 0.77 0.88 0.86 0.84 100% 0.88 0.88 0.86 0.84 0.91 0.90 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P2 (0,5;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P3 (0,25;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 P4 (0,9;0,5) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 3.4 3.4 3.4 3.4 3.4 3.4 P6 (0,5;0,25) 2.1 2.1 2.1 2.1 2.1 2.1 2.1 P7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 101 kgf Max. traction Sealing V'Ring V'Ring : 146 kgf Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 20/10/2024 1/9 Date

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :	
Notes	
Rev. Changes Summary Performed Checked	Date
2 James 22 James J	
Performed by	_
Checked by Page Date 20/10/2024 2 / 9	Revision

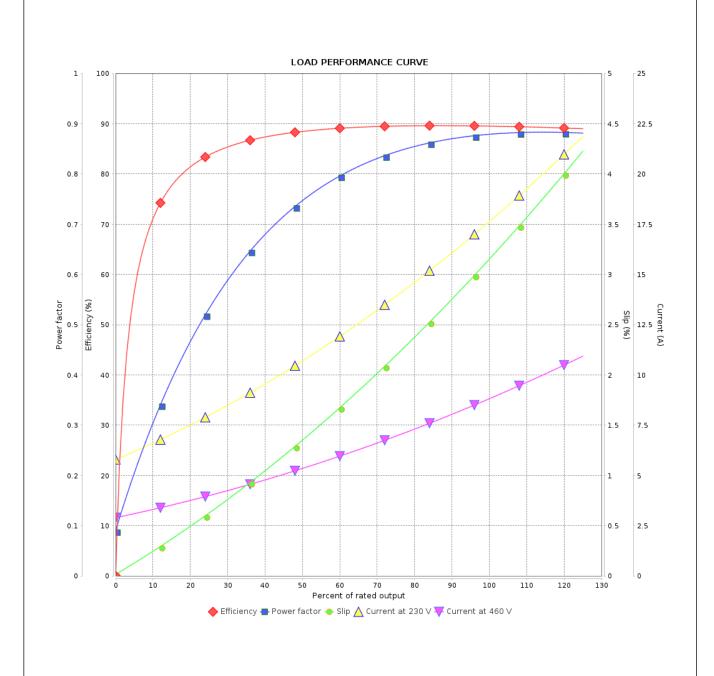
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11647930

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.5/8.76 A : 8.2 : 1.56 kgfm : 270 % : 330 % : 3485 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.0095 kgm² : Cont.(S1) : F : 1.25 : 80 K : A	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

3/9

20/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

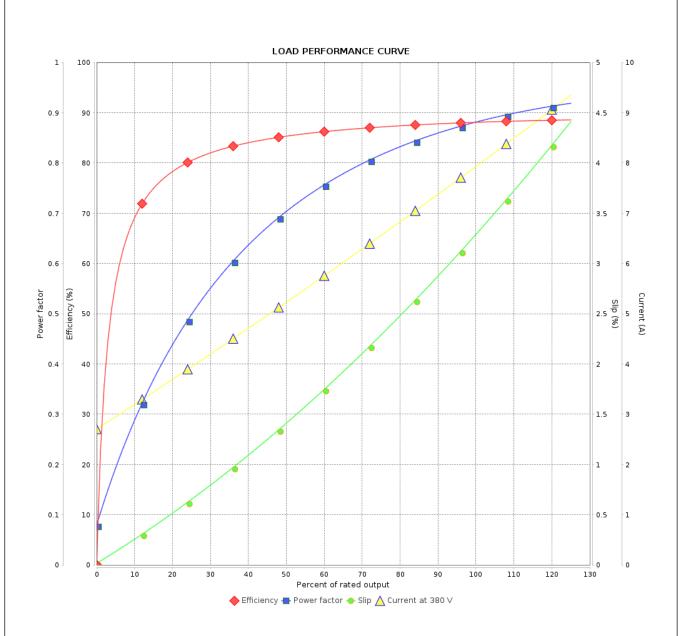
Date

20/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11647930



Performance	:	380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	7.84 A 8.3 1.38 kgfm 310 % 360 % 2900 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by					•	

Page

4/9

Revision

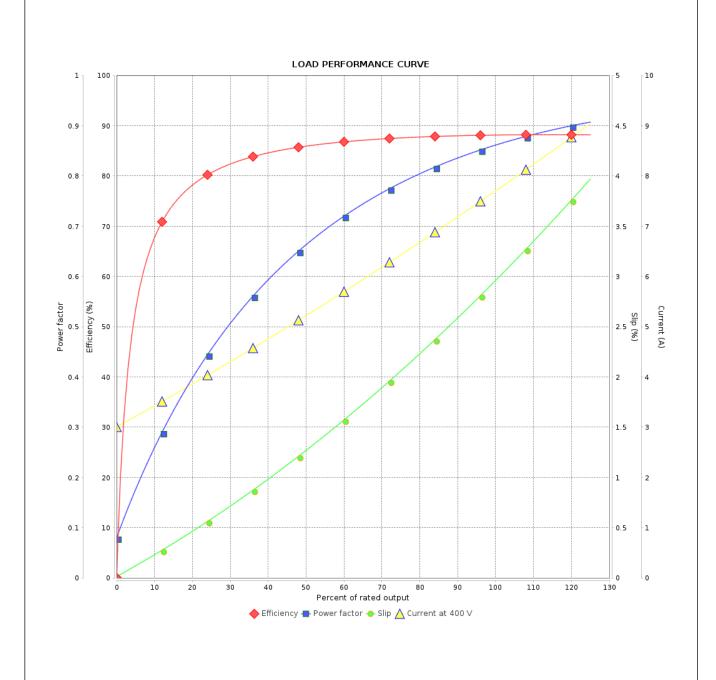
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11647930

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 7.62 A	Moment of	of inertia (J)	: 0.0095 kgm	2
LRC	: 9.1	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1.37 kgfm	: 1.37 kgfm Insulation class		: F	
Locked rotor torque	: 350 %	Service factor		: 1.00	
Breakdown torque	: 390 % Tem		Temperature rise		
Rated speed	: 2910 rpm	Design		: A	
Rev.	Changes Summary	1	Performed	Checked	Date

· tatou opoou						
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	20/10/2024				5/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

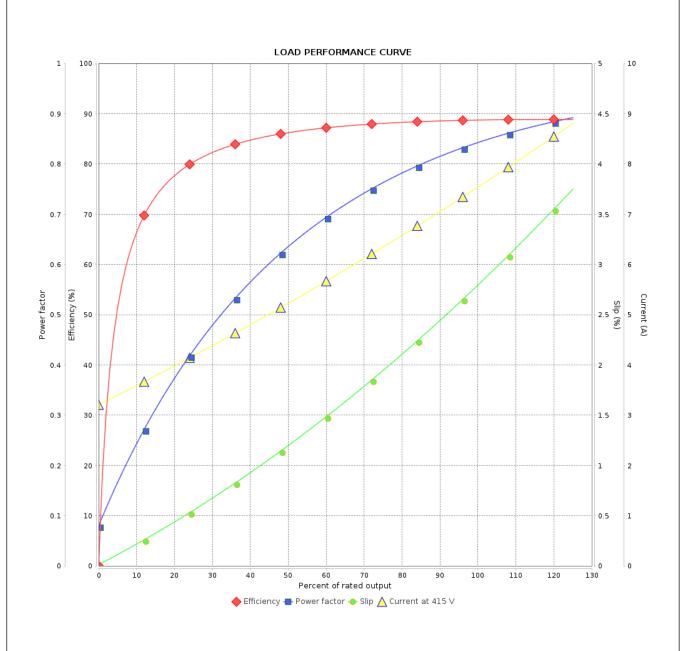
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11

11647930

6/9



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.47 A : 9.6 : 1.37 kgfm : 370 % : 430 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

20/10/2024

Date

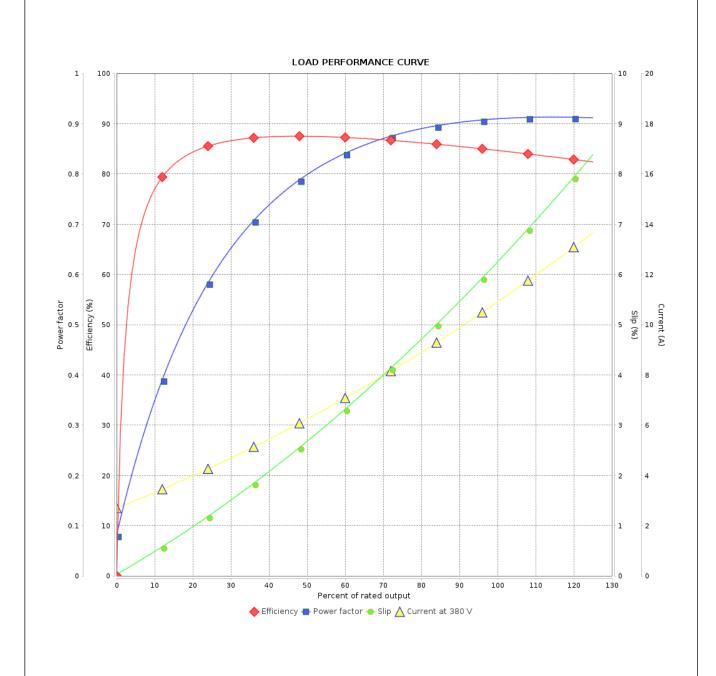
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11647930

Three-Phase



Performance		: 380 V 50 Hz 2P					
Rated current		: 10.9 A	Moment of	of inertia (J)	: 0.0095 kgm	l ²	
LRC		: 6.3	Duty cycle		: Cont.(S1)		
Rated torque		: 1.94 kgfm	1.94 kgfm Insulation class		: F		
Locked rotor tor	rotor torque : 220 % Service		Service fa	Service factor			
Breakdown torqu	Breakdown torque : 260 % Ter		Temperat	Temperature rise			
Rated speed	Rated speed : 2810 rpm Des		Design		: A		
Rev. Changes Summary		Performed	Checked	Date			

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	20/10/2024				7/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

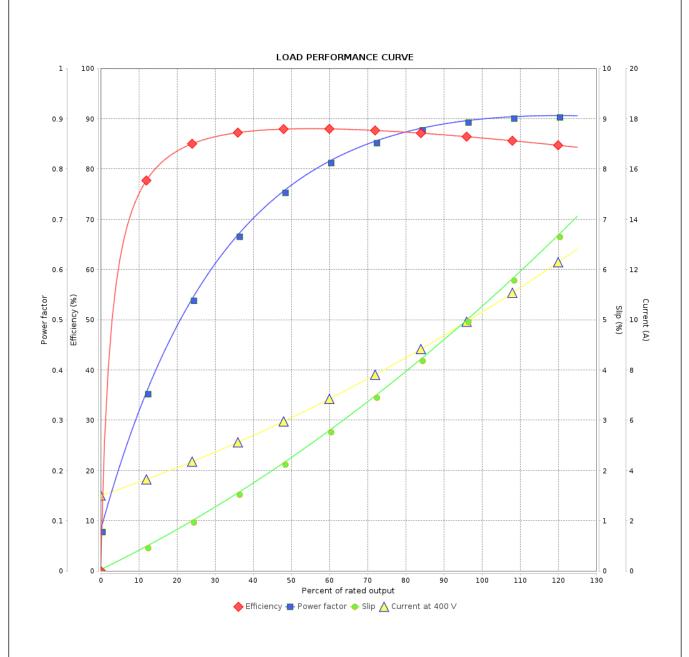
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11

11647930

8/9



Performance	: 400 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 7.0 : 1.92 kgfm : 250 % : 280 % : 2840 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A		
Rev.	Changes Summary	,	Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

20/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

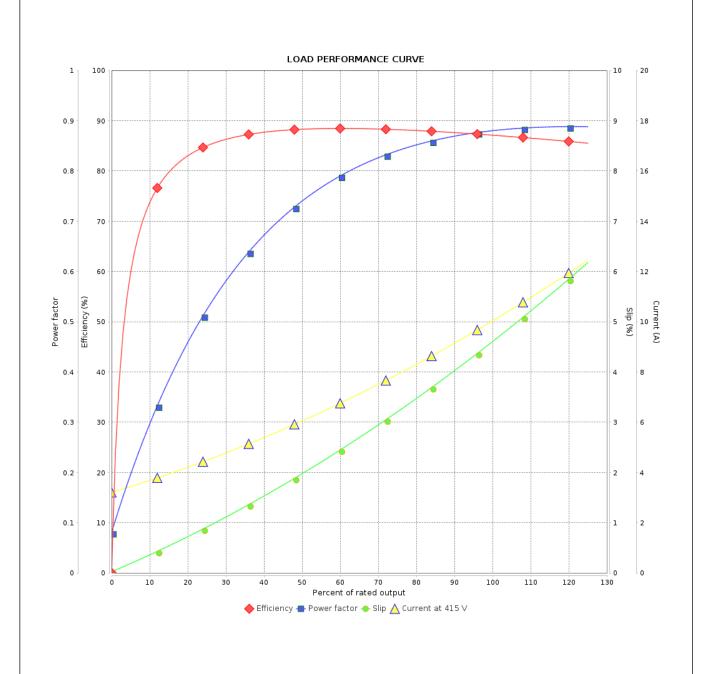
Checked by

Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11647930

Three-Phase



Performance	: 415 V 50	Hz 2P IE2			
Rated current : 10.0 A LRC : 7.4 Rated torque : 1.90 kgfm Locked rotor torque : 270 % Breakdown torque : 310 % Rated speed : 2860 rpm		Duty cycle Insulation Service fa Temperat	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
Rev.	<u> </u>	es Summary	Performed	: A Checked	Date
Performed by					

Page

9/9

Revision