### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11943229 Three-Phase : 404/5T Cooling method Frame : IC411 - TEFC 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 Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.46 kgm<sup>2</sup> Design : B Output [HP] 50 40 40 50 40 50 50 Poles 8 8 8 8 8 8 8 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 73.3 Rated current [A] 60.2 59.4 57.6 56.8 69.9 68.2 403 L. R. Amperes [A] 433 404 420 443 419 443 LRC [A] 7.2x(Code H) 6.8x(Code H) 7.3x(Code J) 7.8x(Code J) 5.5x(Code F) 6.0x(Code 6.5x(Code H) G) 26.0 No load current [A] 26.0 24.5 23.5 25.0 23.0 25.0 Rated speed [RPM] 880 730 733 735 720 725 725 Slip [%] 2.22 2.67 2.27 2.00 4.00 3.33 3.33 Rated torque [kgfm] 41.2 39.8 39.6 39.5 50.4 50.1 50.1 Locked rotor torque [%] 170 170 200 229 140 160 180 Breakdown torque [%] 260 240 290 310 200 229 250 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K Locked rotor time 36s (cold) 52s (cold) 57s (cold) 54s (cold) 50s (cold) 36s (cold) 37s (cold) 29s (hot) 32s (hot) 30s (hot) 28s (hot) 20s (hot) 21s (hot) 20s (hot) Noise level<sup>2</sup> 60.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 93.0 92.9 91.8 91.8 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.3 92.2 92.2 91.7 91.7 91.7 100% 93.0 91.3 91.7 91.8 90.2 91.0 91.0 25% 50% 0.68 0.65 0.63 0.60 0.74 0.71 0.68 Power Factor 75% 0.78 0.78 0.76 0.73 0.82 0.80 0.78 100% 0.83 0.84 0.82 0.80 0.85 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P2 (0,5;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P3 (0,25;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P4 (0,9;0,5) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 Losses (%) P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6316 C3 6314 C3 Max. traction : 1232 kgf Taconite Taconite Sealing Max. compression : 1232 kgf Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 27 g 34 a Lubricant type Mobil Polyrex EM

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/9	

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



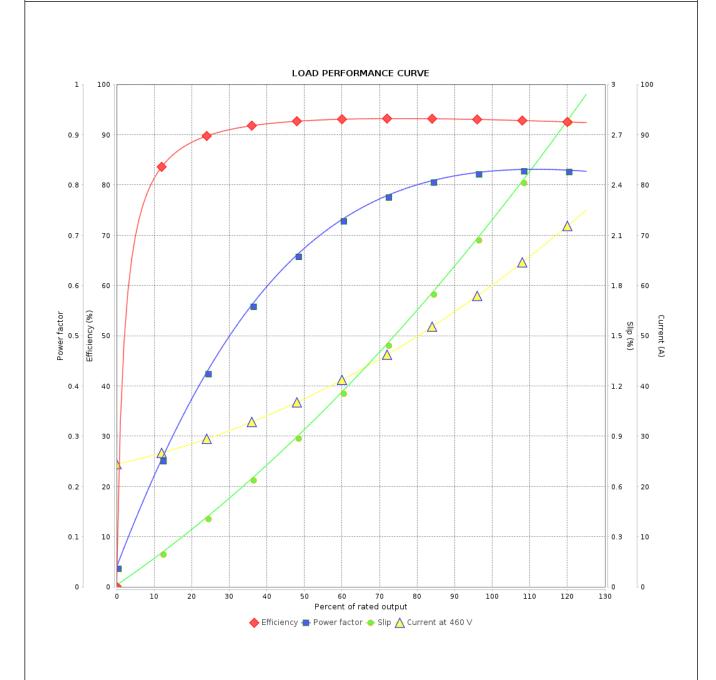
		- motor equi			
Customer	:				
Notes					
Notes					
	I		 		T =
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
	40/04/0004			0.40	I

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943229



Rev	Changes Summary	1	Performed	Chacked	Data
Rated speed	: 880 rpm	Design		: B	
Breakdown torque	: 260 %	Temperatu	ure rise	: 80 K	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.25	
Rated torque	: 41.2 kgfm	Insulation	class	: F	
LRC	: 7.2	Duty cycle	;	: Cont.(S1)	
Rated current	: 60.2 A	Moment o	f inertia (J)	: 1.46 kgm²	
Performance	: 460 V 60 Hz 8P				

Rated speed	. 80	so rpm	Design		. В	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				3/9	

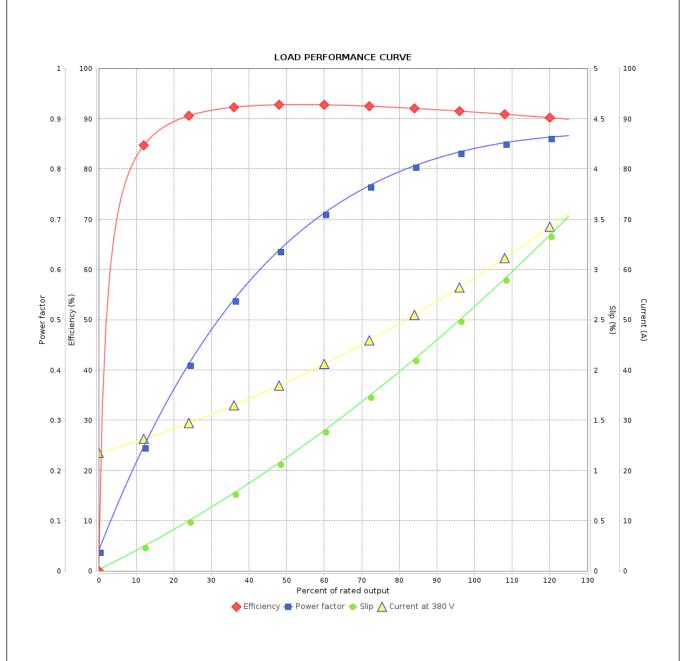
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 11943229



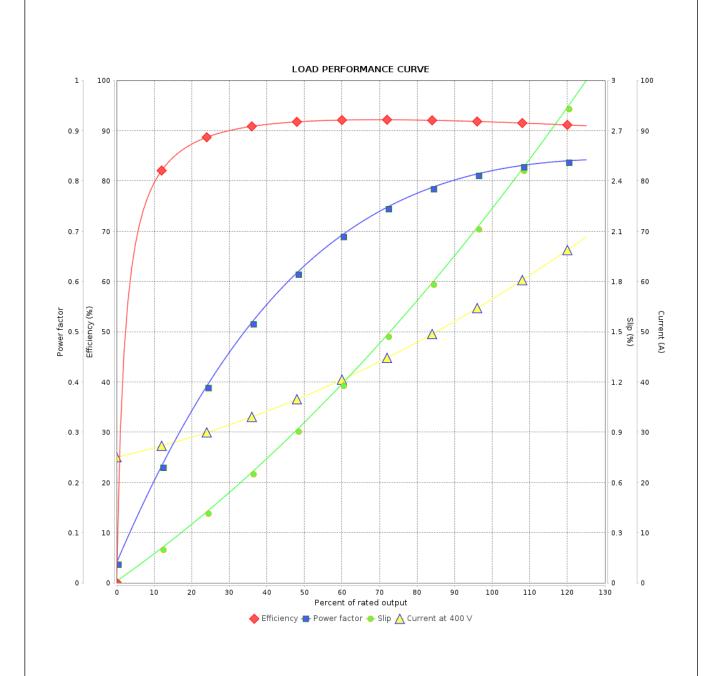
Performance	: 3	80 V 50 Hz 8P IE3				
Rated current	: 59.4 A Moment o		of inertia (J)	: 1.46 kgm²		
LRC	: 6	5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 3	9.8 kgfm	Insulation class		: F	
ocked rotor torque : 170 % Service factor		actor	: 1.00			
Breakdown torque		40 %	Temperat	Temperature rise : 80 K		
Rated speed	: 7	'30 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	1			4/9	

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943229



Performance	: 400 V 50 Hz 8P IE	Ξ3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 57.6 A : 7.3 : 39.6 kgfm : 200 % : 290 % : 733 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 1.46 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Sumn	nary	Performed	Checked	Date

· · · · · · · · ·					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			5/9	

### Three Phase Induction Motor - Squirrel Cage



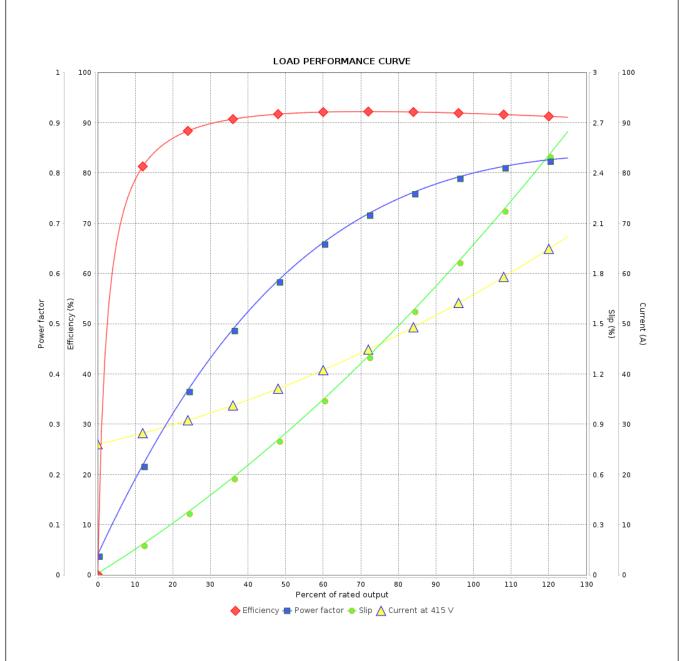
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

11943229



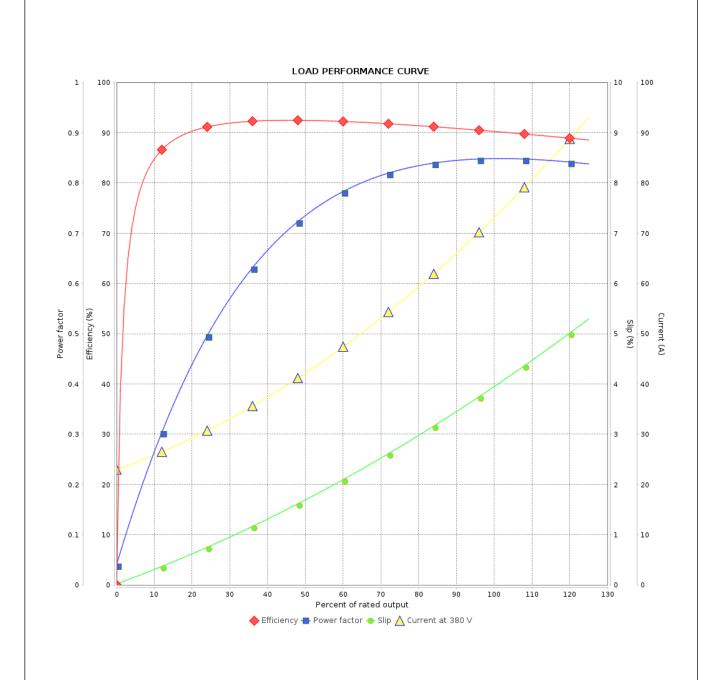
Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	ed current : 56.8 A		Moment of	of inertia (J)	: 1.46 kgm²	
LRC	: 7	.8	Duty cycl	Duty cycle		
Rated torque	: 3	9.5 kgfm	Insulation	Insulation class		
Locked rotor tord	que : 2:	29 %	Service fa	Service factor		
Breakdown torque : 310 % Temperature rise		ture rise	: 80 K			
Rated speed : 735 rpm		Design		: B		
Rev. Changes Summary		Ту	Performed	Checked	Date	
Performed by						
Checked by		1			Page	Revision
Date	13/01/2024	1			6/9	

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943229



Performance	: 380 V 50 Hz 8P	IE1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 73.3 A : 5.5 : 50.4 kgfm : 140 % : 200 % : 720 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.46 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Sum	mary	Performed	Checked	Date

rated opeca		-0 1pm	Boolgii			
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				7/9	

### Three Phase Induction Motor - Squirrel Cage



Customer :

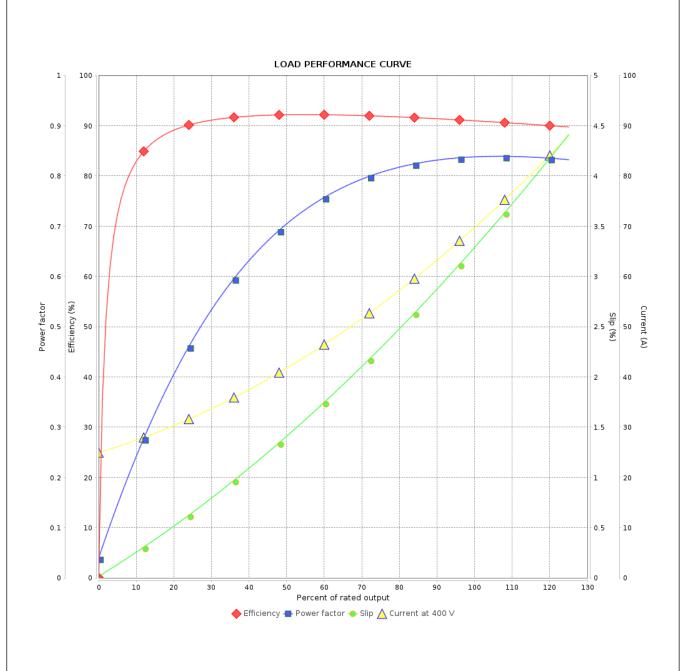
Product line : W22 IEEE 841 NEMA Premium Efficiency

. W22 IEEE 641 NEWA FIEIHUIH EINGENCY

Product code:

11943229

8/9



Performance	:	: 400 V 50 Hz 8P IE	<b>Ξ</b> 2			
LRC : Rated torque : Locked rotor torque : Breakdown torque :		69.9 A 6.0 50.1 kgfm 160 % 229 % 725 rpm	Duty cy Insulation Service			
Rev.		Changes Summ	nary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

13/01/2024

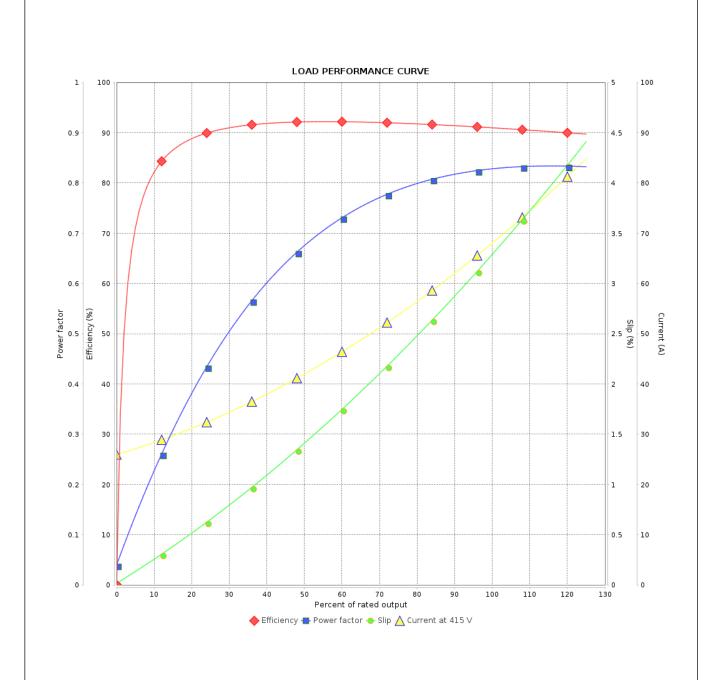
Date

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943229



Rev.	Changes Sum	nary Performed	Checked	Date
Rated speed	: 725 rpm	Design	: B	
Breakdown torque	: 250 %	Temperature rise	: 105 K	
Locked rotor torqu	ıe : 180 %	Service factor	: 1.00	
Rated torque	: 50.1 kgfm	Insulation class	: F	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated current	: 68.2 A	Moment of inertia (J)	: 1.46 kgm²	
Performance	: 415 V 50 Hz 8P	<u> </u>		

. tatoa opooa		_ · · · · · ·			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	13/01/2024	1		9/9	