## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941263 Efficiency Three-Phase Cooling method Frame : 213/5TC : 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> : 87.4 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0636 kgm<sup>2</sup> Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 4 4 4 4 4 4 4 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 15.0 Rated current [A] 12.4 11.2 11.0 10.9 14.2 13.8 76.5 L. R. Amperes [A] 79.4 75.0 78.1 81.7 79.5 82.8 LRC [A] 6.4x(Code H) 6.7x(Code H) 7.1x(Code J) 7.5x(Code K) 5.1x(Code 5.6x(Code 6.0x(Code H) G) G) No load current [A] 5.65 5.60 6.00 6.35 5.60 6.00 6.35 Rated speed [RPM] 1765 1465 1470 1470 1450 1455 1460 Slip [%] 1.94 2.33 2.00 2.00 3.33 3.00 2.67 Rated torque [kgfm] 4.11 3.70 3.69 3.69 5.01 4.99 4.97 Locked rotor torque [%] 200 200 240 260 150 180 190 Breakdown torque [%] 295 300 340 360 220 250 270 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 25s (cold) 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level<sup>2</sup> 58.0 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% 91.0 90.0 89.2 88.7 90.3 90.3 90.3 Efficiency (%) 75% 91.7 90.0 89.9 89.8 90.2 90.2 90.2 100% 91.7 89.8 90.1 90.3 88.5 89.5 90.2 25% 50% 0.66 0.62 0.58 0.55 0.73 0.69 0.66 Power Factor 75% 0.77 0.76 0.73 0.70 0.82 0.80 0.78 100% 0.83 0.83 0.80 0.78 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 8.8 8.8 8.8 8.8 8.8 8.8 P2 (0,5;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P3 (0,25;1,0) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 P4 (0,9;0,5) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 Losses (%) P5 (0,5;0,5) 3.2 3.2 3.2 3.2 3.2 3.2 3.2 P6 (0,5;0,25) 2.3 2.3 2.3 2.3 2.3 2.3 2.3 P7 1.6 1.6 1.6 1.6 1.6 1.6 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 204 kgf Max. traction Taconite **Taconite** Sealing Max. compression : 292 kgf Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 11 a 7 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

1/9

22/10/2024

Date

## DATA SHEET

Date

22/10/2024



Three Pha	se Inductioi	n Motor - Squirrel	Cage			
Customer	:					
Customer  Notes  This revision rep	i:	the previous one, which	These ar	re average values		
must be eliminate (1) Looking the n (2) Measured at	ed. notor from the sha 1m and with tolera weight subject to rocess.	aft end. ance of +3dB(A).		e average values ipply, subject to th		
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision

2/9

## Three Phase Induction Motor - Squirrel Cage

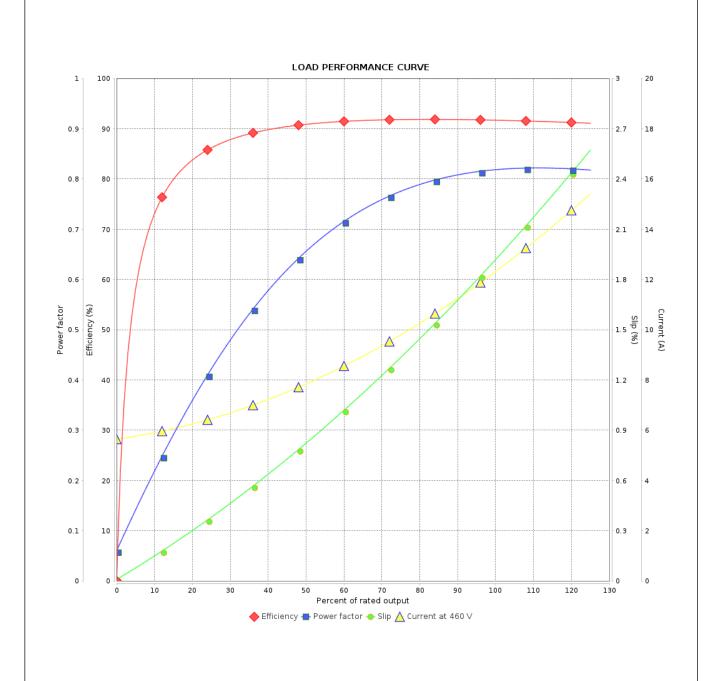


11941263

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord	aue	: 12.4 A : 6.4 : 4.11 kgfm : 200 %	Moment of Duty cycle Insulation Service fa	class	: 0.0636 kgm : Cont.(S1) : F : 1.25	2
Breakdown torqu Rated speed	•	: 295 % : 1765 rpm	Temperati Design		: 80 K : B	
Rev.		Changes Summary	·	Performed	Checked	Date

Raieu speeu	. 1	705 Ipili	Design		. Б	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	22/10/2024				3/9	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

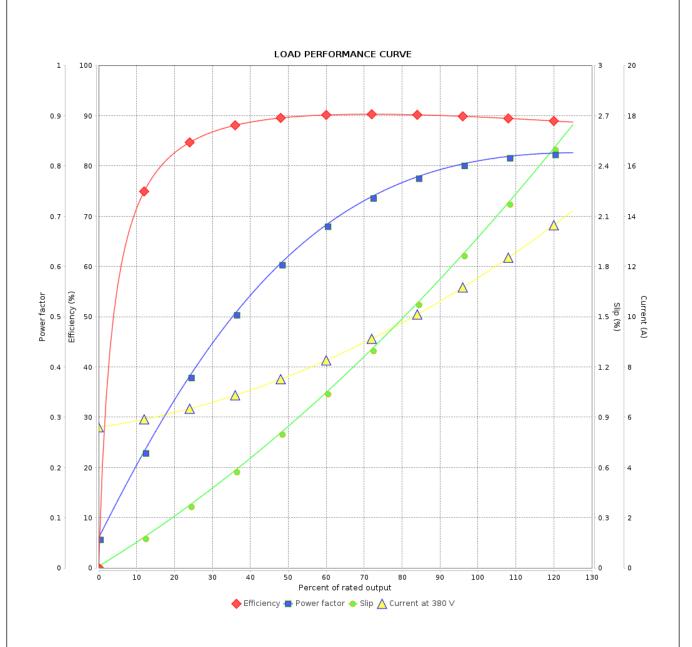
Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941263



Performance : 380 V 50 Hz 4P IE3 : 11.2 A : 0.0636 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) : 3.70 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

4/9

## Three Phase Induction Motor - Squirrel Cage

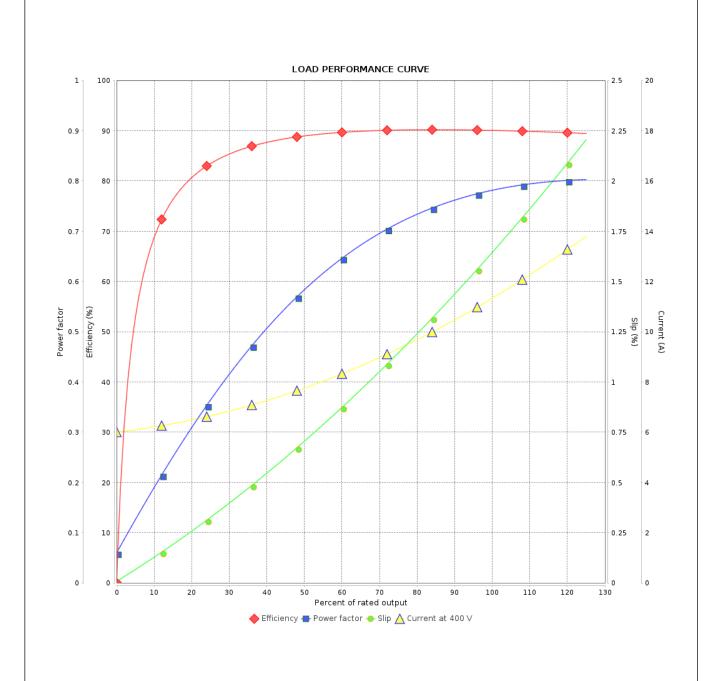


11941263

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 4P IE3	i			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 11.0 A : 7.1 : 3.69 kgfm : 240 % : 340 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0636 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.		Changes Summa		Performed	Checked	Date
D ( 11						

	Page	Revision
22/10/2024	5/9	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

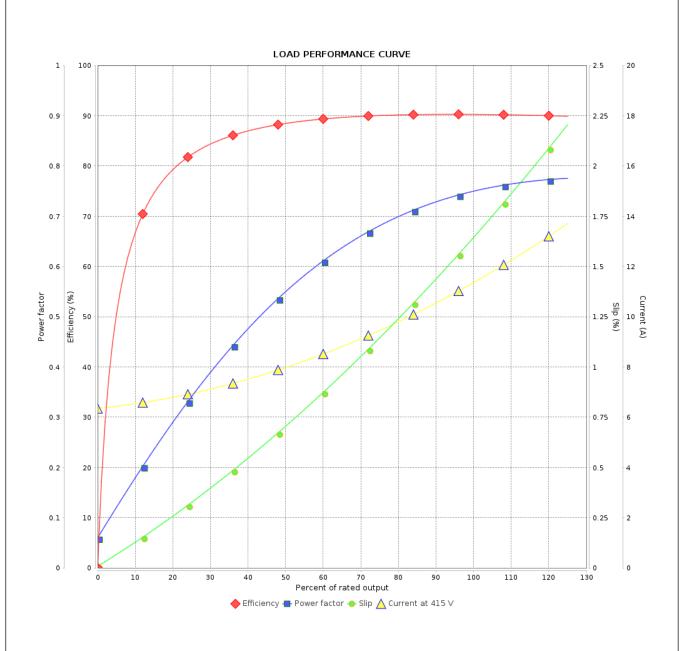
Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941263



Performance : 415 V 50 Hz 4P IE3 : 10.9 A : 0.0636 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 7.5 Duty cycle : Cont.(S1) : 3.69 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/9

## Three Phase Induction Motor - Squirrel Cage

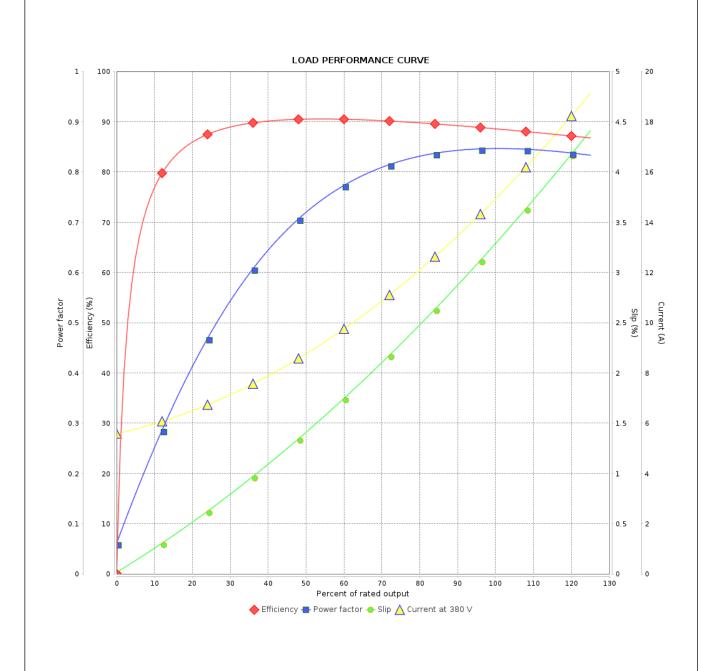


Customer :

Product line : W22 IEEE 841 NEMA Premium

: W22 IEEE 841 NEMA Premium Pro Efficiency Three-Phase

Product code: 11941263



			4			
Performance		: 380 V 50 Hz 4P IE1				
Rated current		: 15.0 A	Moment of	of inertia (J)	: 0.0636 kgm	2
LRC		: 5.1	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 5.01 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 150 %	Service fa	ector	: 1.15	
Breakdown torqu	ue	: 220 %	Temperat	ure rise	: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/10/2024			7/9	

## Three Phase Induction Motor - Squirrel Cage

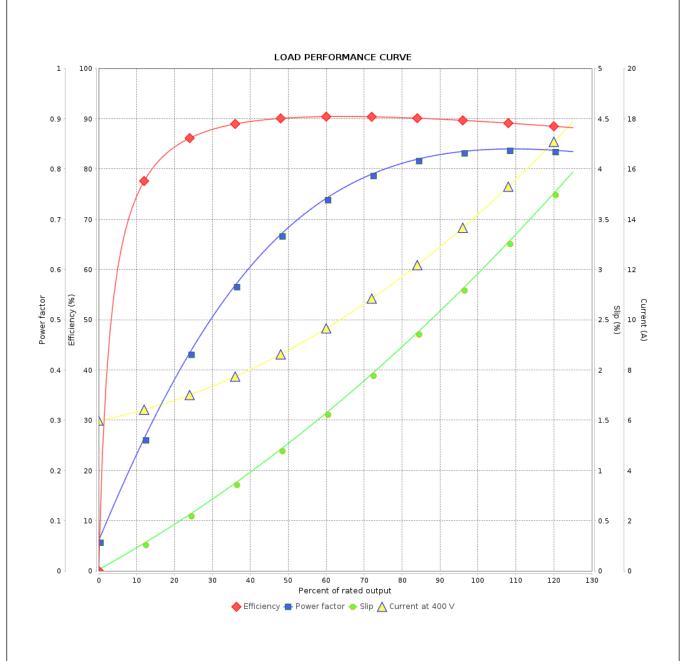


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941263



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 4.99 kgfm : 180 % : 250 % : 1455 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	3	: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	Р	erformed	Checked	Date
Performed by					
Checked by				Page	Revision

8/9

22/10/2024

Date

## Three Phase Induction Motor - Squirrel Cage



11941263

Page

9/9

Revision

Customer :

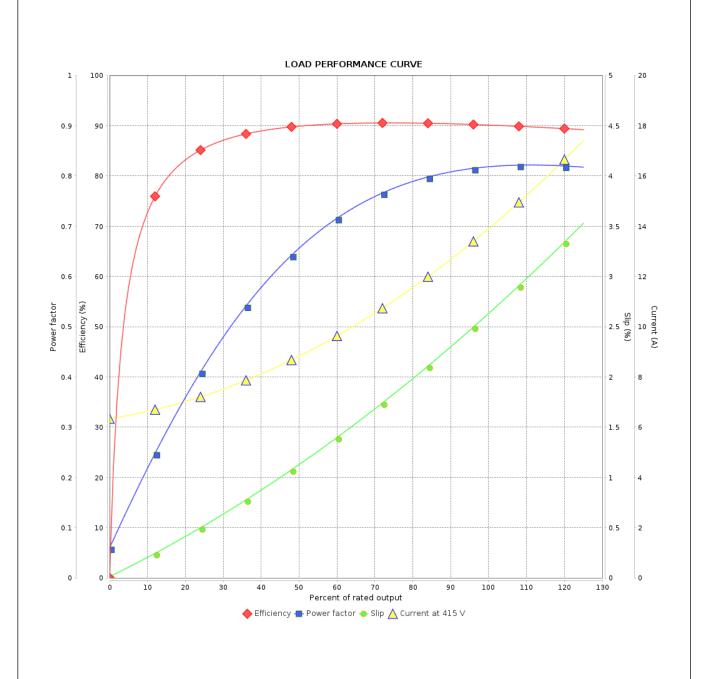
Checked by

Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A : 6.0 : 4.97 kgfm : 190 % : 270 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	'	Performed	Checked	Date
Performed by					