#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943070 Efficiency Three-Phase Frame : 364/5T Cooling method : 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 Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.22 kgm<sup>2</sup> Design : B 40 40 Output [HP] 30 30 30 40 40 Poles 8 8 8 8 8 8 8 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 62.9 Rated current [A] 50.9 47.8 46.3 45.7 60.0 58.1 L. R. Amperes [A] 300 292 310 324 283 300 320 LRC [A] 5.9x(Code | 6.1x(Code H) | 6.7x(Code J) | 7.1x(Code J) | 4.5x(Code E) | 5.0x(Code F) | 5.5x(Code G) G) 20.7 No load current [A] 21.5 20.7 22.2 23.4 22.2 23.4 Rated speed [RPM] 882 735 736 737 725 727 730 Slip [%] 2.00 2.00 1.87 1.73 3.33 3.07 2.67 Rated torque [kgfm] 32.9 29.6 29.6 29.5 40.0 39.9 39.8 Locked rotor torque [%] 170 600 210 229 140 160 170 Breakdown torque [%] 210 240 270 300 180 200 210 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 32s (cold) Locked rotor time 46s (cold) 81s (cold) 52s (cold) 52s (cold) 32s (cold) 32s (cold) 26s (hot) 45s (hot) 29s (hot) 29s (hot) 18s (hot) 18s (hot) 18s (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% 92.4 91.5 91.5 90.9 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.6 91.9 91.8 91.0 91.7 91.7 100% 92.4 90.9 91.5 91.7 89.5 90.2 91.0 25% 50% 0.65 0.60 0.55 0.52 0.70 0.66 0.62 Power Factor 75% 0.75 0.71 0.68 0.65 0.78 0.76 0.74 100% 0.80 0.77 0.75 0.73 0.81 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 3.6 3.6 3.6 3.6 3.6 3.6 3.6 Losses (%) P5 (0,5;0,5) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 938 kgf Max. traction Taconite Taconite Sealing : 938 kgf Max. compression Labyrinth Labyrinth Lubrication interval 20000 h 20000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM

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# DATA SHEET

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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		
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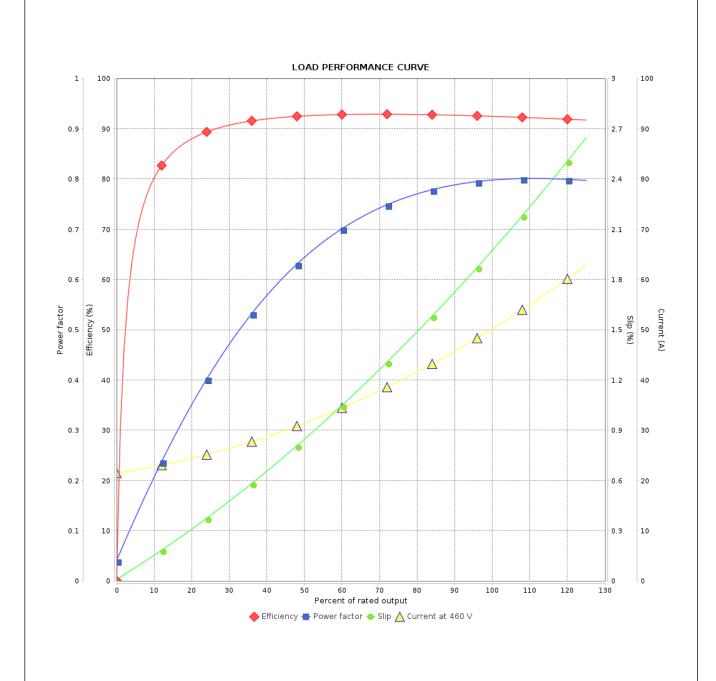


Customer :

Product line : W22 IEEE 841 NEMA Premium Prod

Efficiency Three-Phase

Product code: 11943070



Performance		: 460 V 60 Hz 8P				
Rated current LRC		: 50.9 A : 5.9	Moment of inertia (J) Duty cycle		: 1.22 kgm² : Cont.(S1)	
Rated torque Locked rotor tord	que	: 32.9 kgfm : 170 %	Insulation	Insulation class Service factor		
Breakdown torqu	ıe	: 210 %	Temperat	ure rise	: 80 K	
Rated speed		: 882 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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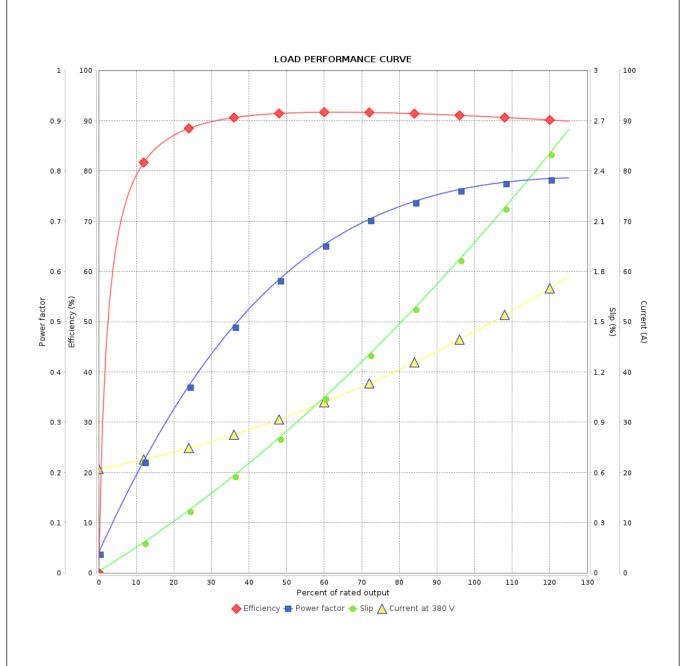
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	: 38	80 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 29 jue : 60 ie : 24	7.8 A .1 9.6 kgfm 00 % 40 % 35 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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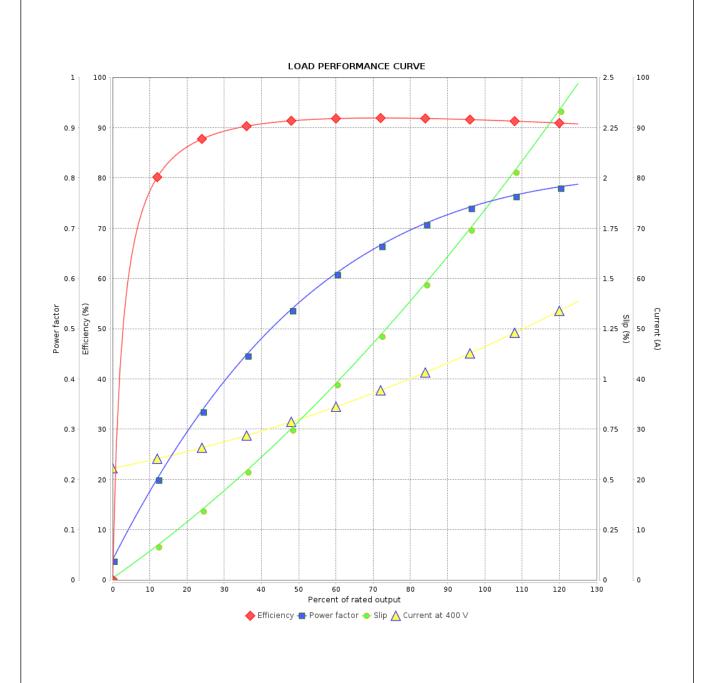


11943070

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



: 46.3 A	Moment c	of inertia (J)	: 1.22 kgm²		
: 6.7	` ,		: Cont.(S1)		
: 29.6 kgfm	Insulation class		Insulation class : F		
: 210 %	Service factor		: 1.00		
: 270 %	Temperati	ure rise	: 80 K		
: 736 rpm	Design		: B		
Changes Summary		Performed	Checked	Date	
	: 6.7 : 29.6 kgfm : 210 % : 270 % : 736 rpm	: 6.7       Duty cycle         : 29.6 kgfm       Insulation         : 210 %       Service fa         : 270 %       Temperate         : 736 rpm       Design	: 6.7 : 29.6 kgfm : 210 % : 270 % : 736 rpm  Duty cycle Insulation class Service factor Temperature rise Design	: 6.7       Duty cycle       : Cont.(S1)         : 29.6 kgfm       Insulation class       : F         : 210 %       Service factor       : 1.00         : 270 %       Temperature rise       : 80 K         : 736 rpm       Design       : B	

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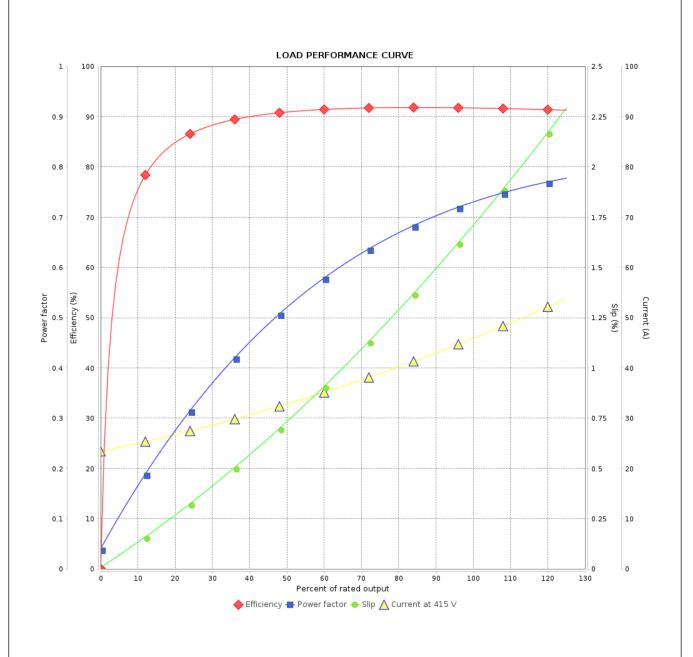


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	:.	415 V 50 Hz 8P IE3	 3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	45.7 A 7.1 29.5 kgfm 229 % 300 % 737 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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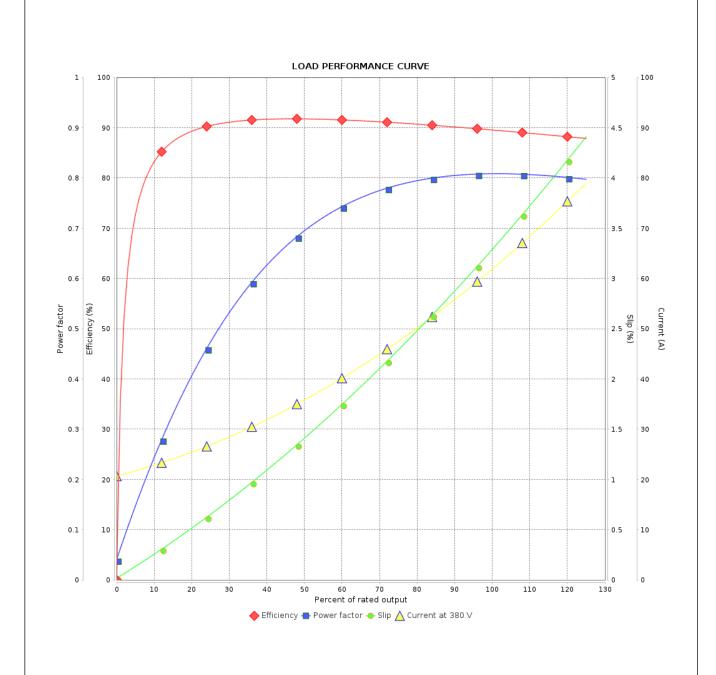
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943070

Efficiency Three-Phase



Dov	Changas Cummani		Dorformed	Chaakad	Doto
Rated speed	: 725 rpm	Design		: B	
Breakdown torque	: 180 %	Temperati	ure rise	: 105 K	
Locked rotor torque	: 140 %	Service fa	ictor	: 1.00	
Rated torque	: 40.0 kgfm	Insulation	class	: F	
LRC	: 4.5	Duty cycle	9	: Cont.(S1)	
Rated current	: 62.9 A	Moment of	of inertia (J)	: 1.22 kgm²	
Performance	: 380 V 50 Hz 8P IE1				
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Rateu speeu	. 17	25 Ipili	Design		. Б	
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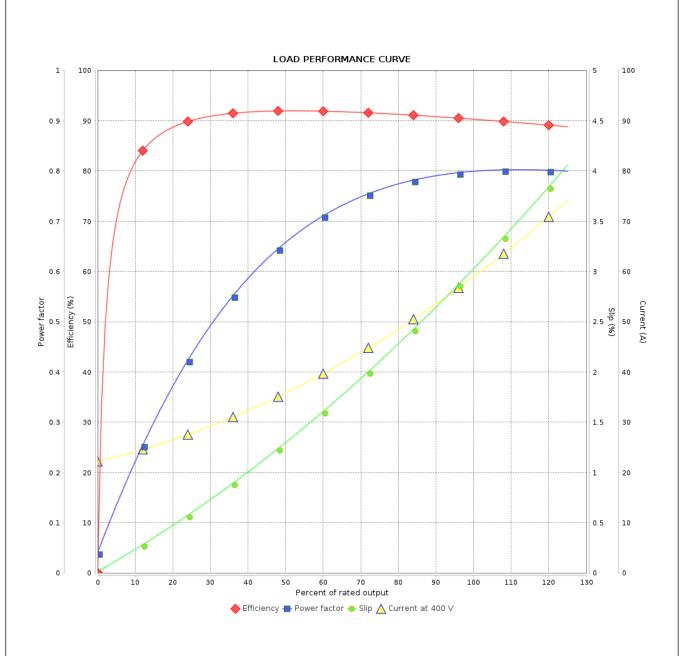


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943070



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 60.0 A : 5.0 : 39.9 kgfm : 160 % : 200 % : 727 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.22 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 105 K : B	
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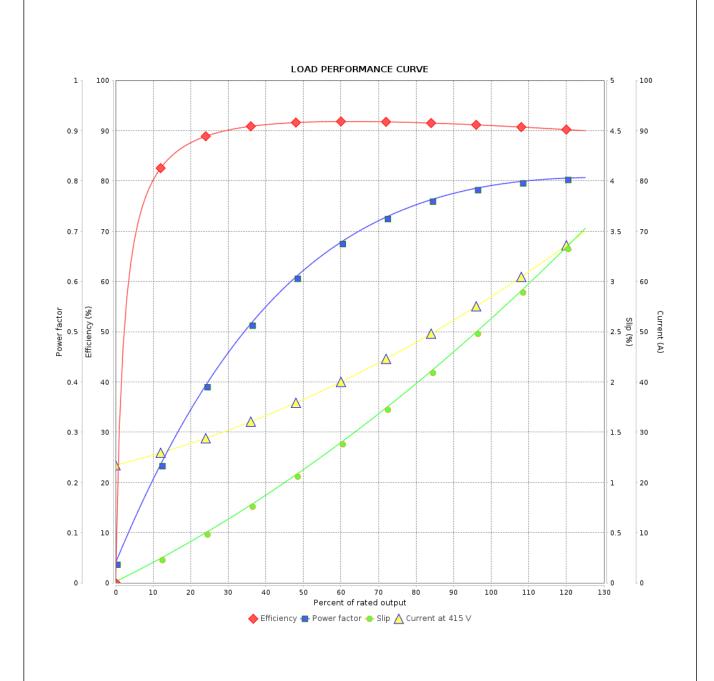
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943070

Efficiency Three-Phase



Performance	: 415 V 50 Hz 8P IE2				
1 enormance	.413 V 30 112 01 1L2				
Rated current	: 58.1 A	Moment o	f inertia (J)	: 1.22 kgm²	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 39.8 kgfm	Insulation class		ation class : F	
Locked rotor torque	: 170 %	Service factor		: 1.00	
Breakdown torque	: 210 %	Temperati	ıre rise	: 105 K	
Rated speed	: 730 rpm	Design		: B	
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