#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943199 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> : 408 kg Protection degree : IP55 Moment of inertia (J) : 1.36 kgm<sup>2</sup> Design : B 40 Output [HP] 50 40 40 50 50 50 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 71.3 Rated current [A] 57.4 57.7 55.5 53.5 67.2 65.5 L. R. Amperes [A] 367 358 377 396 349 370 400 LRC [A] 6.4x(Code 6.2x(Code | 6.8x(Code H) | 7.4x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.1x(Code G) G) G) No load current [A] 20.0 20.0 21.5 22.5 20.5 21.5 22.5 Rated speed [RPM] 1183 983 985 985 975 979 980 Slip [%] 1.42 1.70 1.50 1.50 2.50 2.10 2.00 Rated torque [kgfm] 30.7 29.5 29.5 29.5 37.2 37.1 37.0 Locked rotor torque [%] 200 200 229 250 160 180 200 Breakdown torque [%] 240 240 260 290 190 210 229 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 80 K 80 K 27s (cold) Locked rotor time 32s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 18s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level<sup>2</sup> 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 93.6 92.7 92.7 92.6 93.0 93.0 93.0 Efficiency (%) 75% 94.1 92.8 93.1 93.1 92.4 93.0 93.0 100% 94.1 92.9 92.9 92.9 91.7 92.4 92.4 25% 50% 0.74 0.72 0.70 0.66 0.77 0.75 0.74 Power Factor 75% 0.83 0.82 0.80 0.79 0.84 0.83 0.82 100% 0.86 0.85 0.84 0.84 0.86 0.86 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 P2 (0,5;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P3 (0,25;1,0) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 8.0 8.0 8.0 8.0 0.8 0.8 8.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 753 kgf Max. traction Taconite Taconite Sealing : 1160 kgf Max. compression Labyrinth Labyrinth Lubrication interval 17000 h 17000 h Lubricant amount 27 a 27 g Lubricant type Mobil Polyrex EM

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# DATA SHEET

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22/10/2024



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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		
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## Three Phase Induction Motor - Squirrel Cage

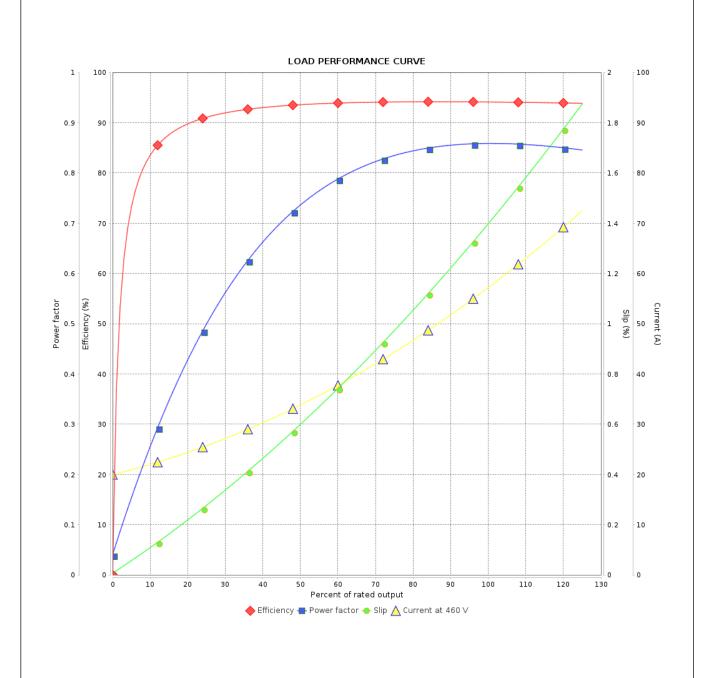


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943199



Performance		: 460 V 60 Hz 6P				
Rated current		: 57.4 A	Moment o	f inertia (J)	: 1.36 kgm²	
LRC		: 6.4	Duty cycle	` '	: Cont.(S1)	
Rated torque		: 30.7 kgfm	Insulation		: F ` ´	
Locked rotor tord	que	: 200 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie	: 240 %	Temperati	ure rise	: 80 K	
Rated speed		: 1183 rpm	Design		: B	
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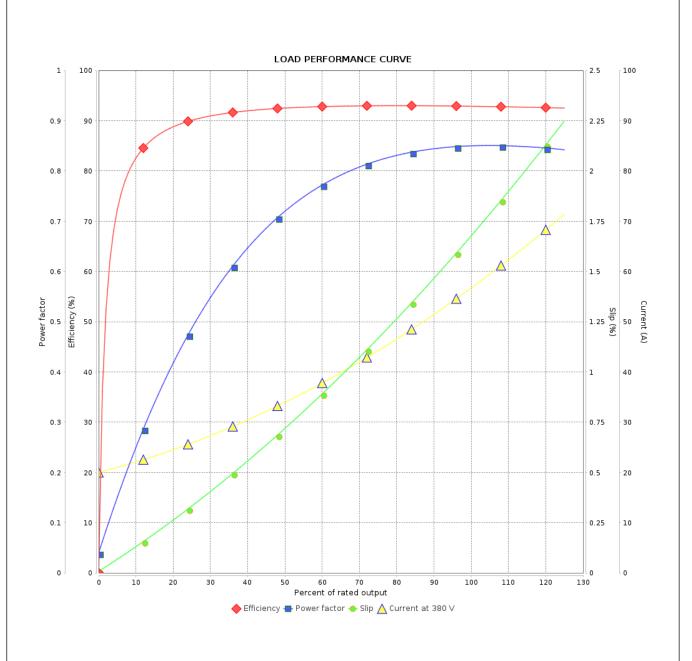


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943199



Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.7 A : 6.2 : 29.5 kgfm : 200 % : 240 % : 983 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.36 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage

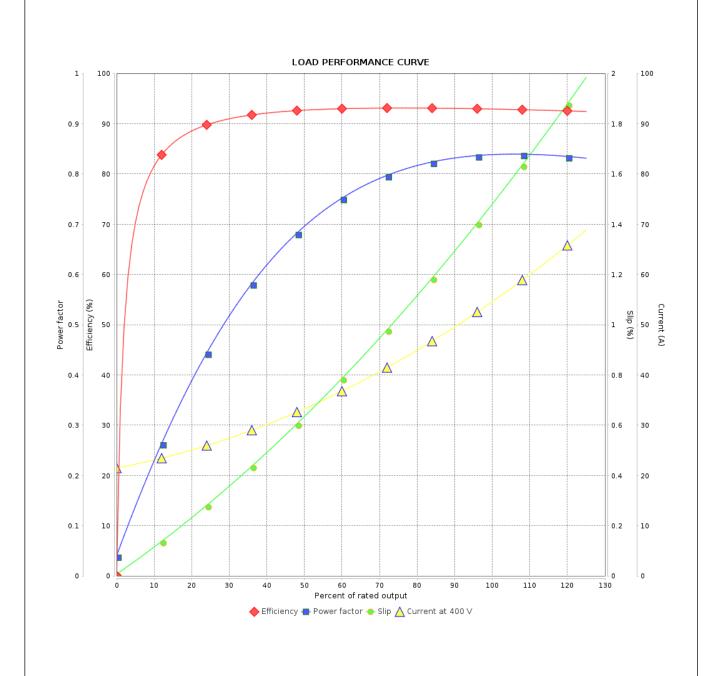


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943199



Performance	: 400 V 50	Hz 6P IE3			
Rated current	: 55.5 A	1	of inertia (J)	: 1.36 kgm²	
LRC	: 6.8	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 29.5 kgfr	n Insulation	class	: F	
Locked rotor tord	ue : 229 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 260 %	Temperat	ure rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

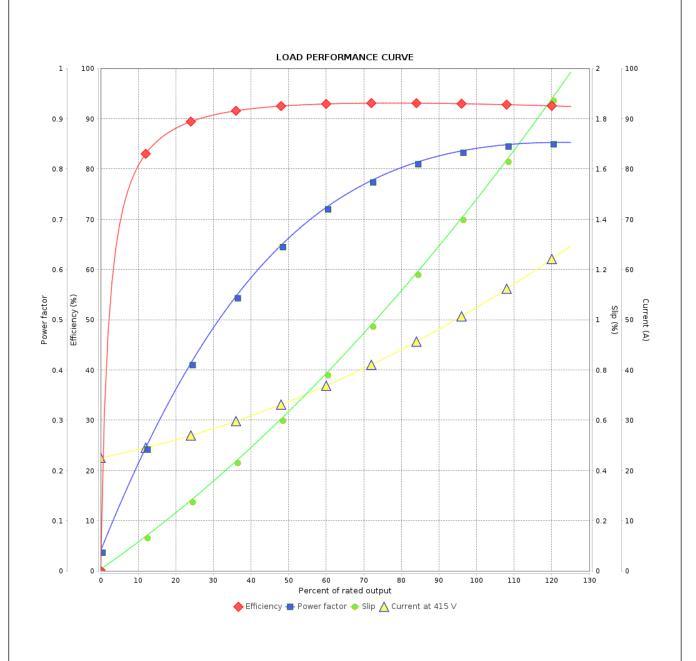


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943199



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.5 A : 7.4 : 29.5 kgfm : 250 % : 290 % : 985 rpm	Moment of in Duty cycle Insulation cl Service factor Temperature Design	ass or	: 1.36 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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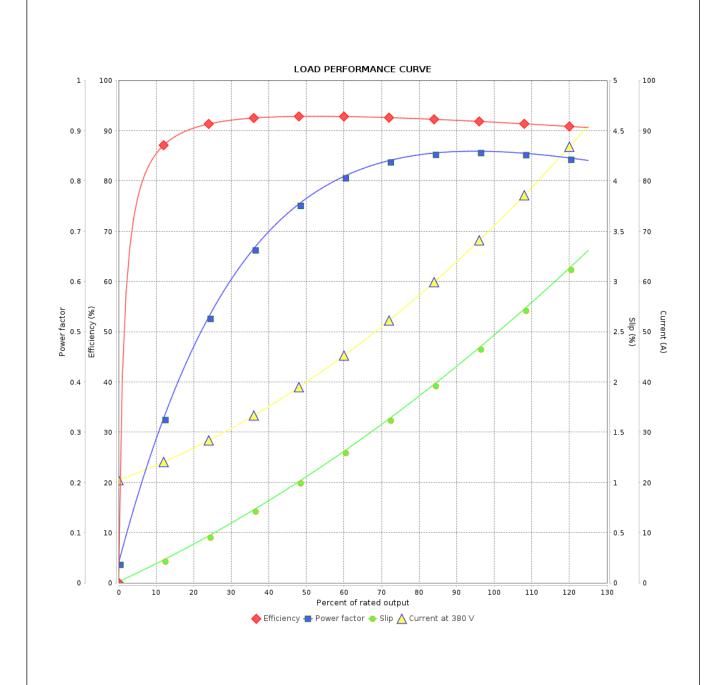
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943199

Efficiency Three-Phase



Performance	: 380 V 50 Hz 6P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.3 A : 4.9 : 37.2 kgfm : 160 % : 190 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.36 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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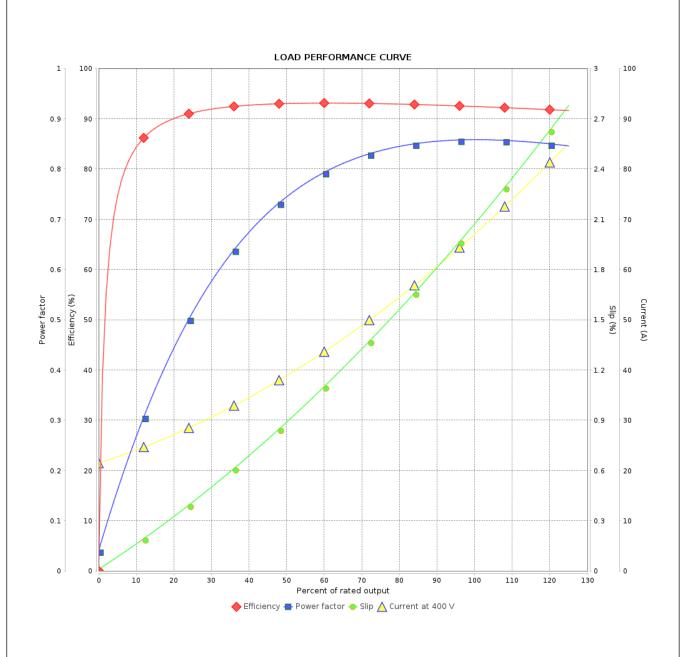
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943199



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.36 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

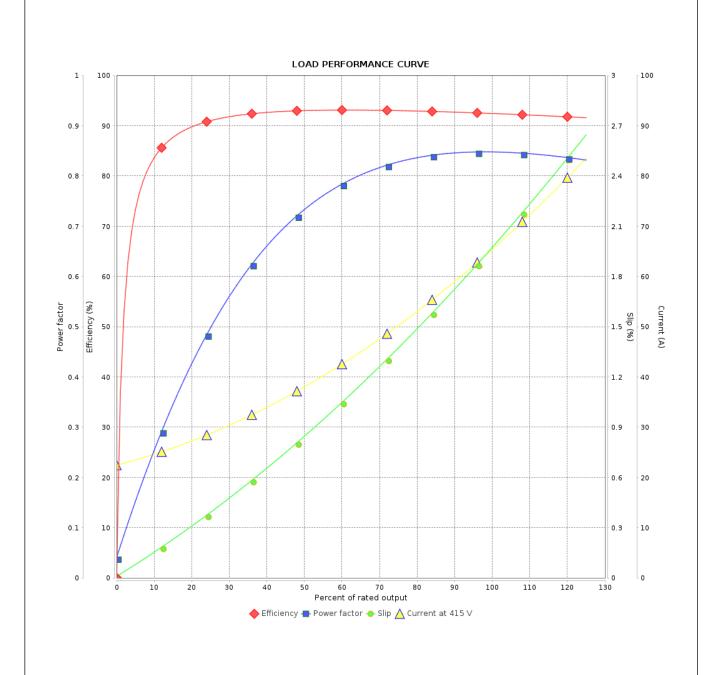


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 415 V 50 Hz 6P IE2				
Rated current		: 65.5 A	Moment of	of inertia (J)	: 1.36 kgm²	
LRC		: 6.1	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 37.0 kgfm	Insulation	class	: F	
Locked rotor tor	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu	ue	: 229 %	Temperat	ure rise	: 80 K	
Rated speed		: 980 rpm	Design		: B	
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