## DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11940579 Efficiency Three-Phase Cooling method Frame : 213/5T : 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. : 82.3 kg Protection degree : IP55 Moment of inertia (J) : 0.0268 kgm<sup>2</sup> Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 460 380 400 415 400 415 14.3 Rated current [A] 11.7 10.6 10.4 10.0 13.7 13.4 L. R. Amperes [A] 84.5 83.8 90.8 91.2 80.1 87.9 92.5 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3520 2930 2940 2945 2885 2900 2910 Slip [%] 2.22 2.33 2.00 1.83 3.83 3.33 3.00 Rated torque [kgfm] 2.06 1.86 1.85 1.85 2.52 2.50 2.49 Locked rotor torque [%] 220 220 240 260 170 190 200 Breakdown torque [%] 290 300 340 360 220 250 270 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 12s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) Noise level<sup>2</sup> 68.0 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% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.86 0.85 0.83 0.81 0.89 0.87 0.86 100% 0.89 0.88 0.85 0.85 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.5 11.4 11.0 12.6 12.6 11.4 12.6 P2 (0,5;1,0) 8.5 9.2 9.2 8.9 10.1 10.1 10.1 P3 (0,25;1,0) 7.4 8.0 8.0 7.8 8.9 8.9 8.9 P4 (0,9;0,5) 5.1 5.6 5.6 5.4 6.2 6.2 6.2 Losses (%) P5 (0,5;0,5) 3.2 3.4 3.4 3.3 3.8 3.8 3.8 P6 (0,5;0,25) 2.0 2.2 2.2 2.1 2.4 2.4 2.4 P7 1.2 1.3 1.3 1.3 1.5 1.5 1.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 83 kgf Max. traction Taconite **Taconite** Sealing : 165 kgf Max. compression 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

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# DATA SHEET

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## Three Phase Induction Motor - Squirrel Cage



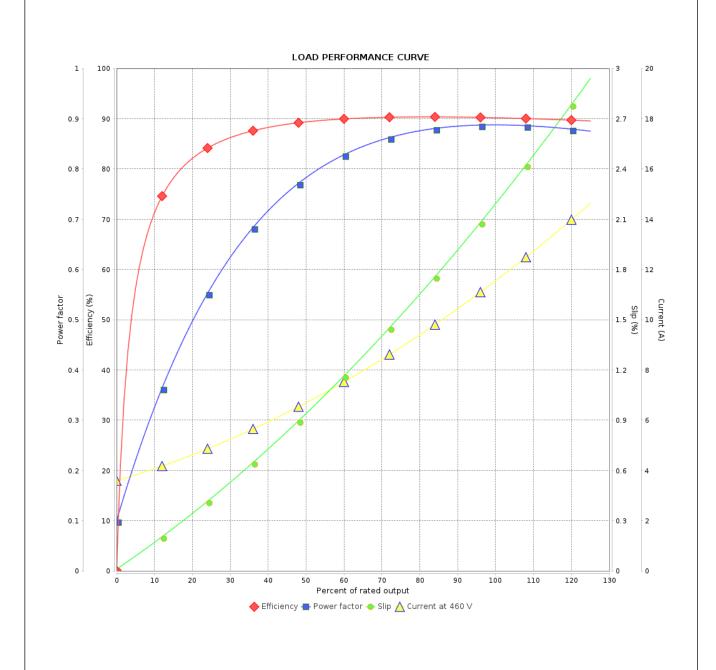
Customer

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11940579



Performance	: 460 V 60 Hz 2P				
			f:	. 0 0000 1	2
Rated current	: 11.7 A	Moment of inertia (J)		: 0.0268 kgm²	
LRC	: 7.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2.06 kgfm	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	actor	: 1.25	
Breakdown torque	: 290 %	Temperat	ure rise	: 80 K	
Rated speed	: 3520 rpm	Design		: B	
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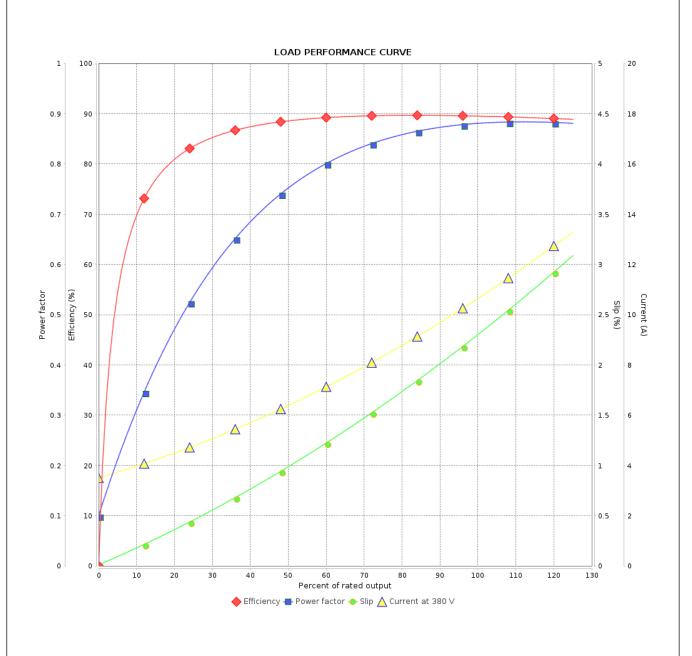


Customer :

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Efficiency Three-Phase

Product code: 11940579



Performance	: 380 V 50 Hz 2P IE3		<del></del>		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.6 A : 7.9 : 1.86 kgfm : 220 % : 300 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
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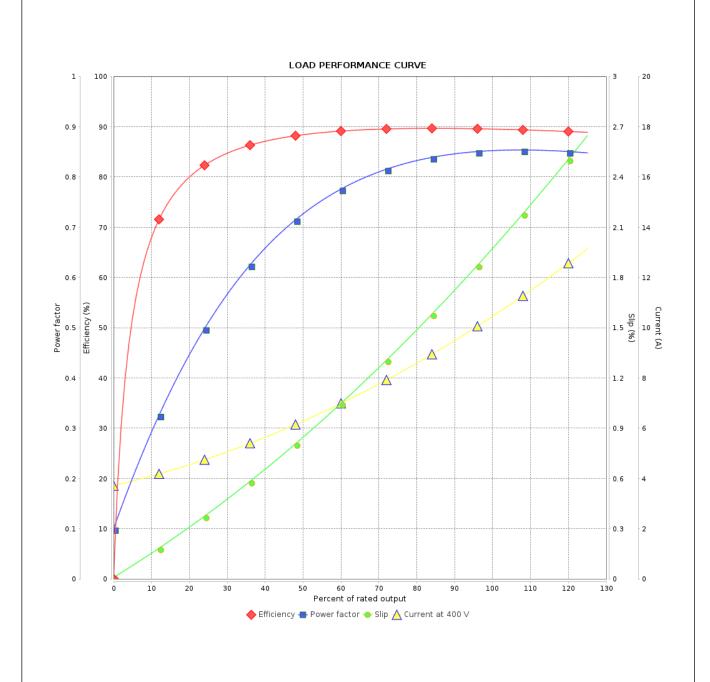


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



: 10.4 A : 8.7 : 1.85 kgfm : 240 %	Duty cycle Insulation		: 0.0268 kgm² : Cont.(S1) : F	
: 1.85 kgfm	Insulation		` '	
•		class	: F ` ´	
. 240 %	10			
. Z4U 70	Service fa	octor	: 1.25	
: 340 %	Temperati	ure rise	: 80 K	
: 2940 rpm	Design		: B	
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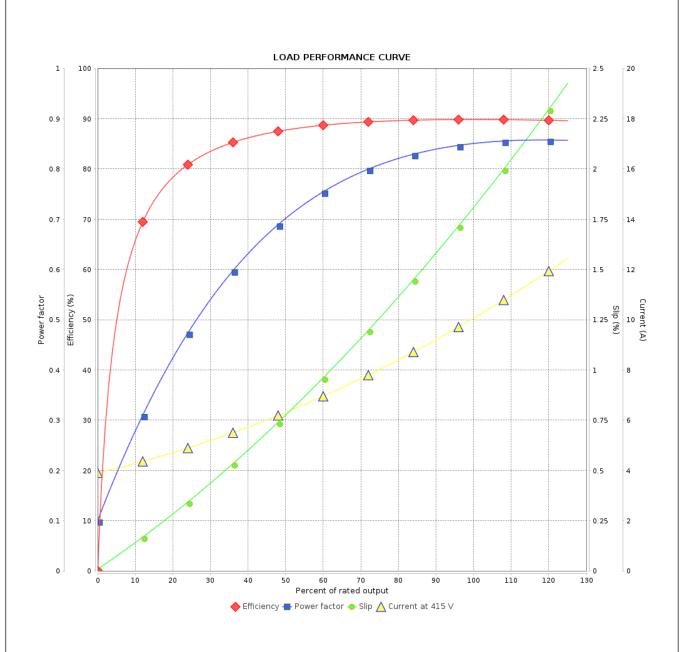


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Product code: 11940579



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current : 10.0 A		0.0 A	Moment of inertia (J)		: 0.0268 kgm²	
LRC : 9.		.1	Duty cycle	Duty cycle		
Rated torque : 1.		.85 kgfm	Insulation	class	: Cont.(S1) : F	
Locked rotor torque : 2		60 %	Service fa	Service factor		
Breakdown torque		60 % Temperature rise		: 80 K		
Rated speed	: 2	945 rpm	Design		: B	
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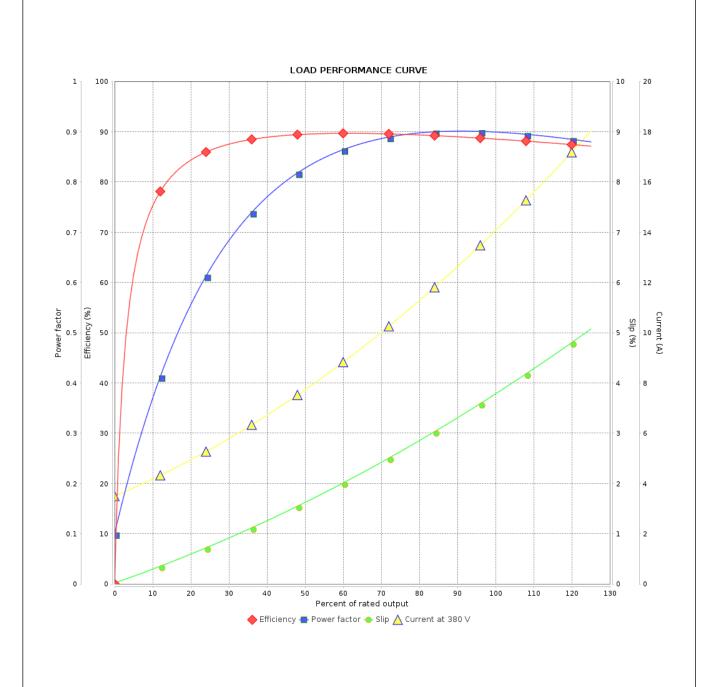
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3 A : 5.6 : 2.52 kgfm : 170 % : 220 % : 2885 rpm	Moment of inertic Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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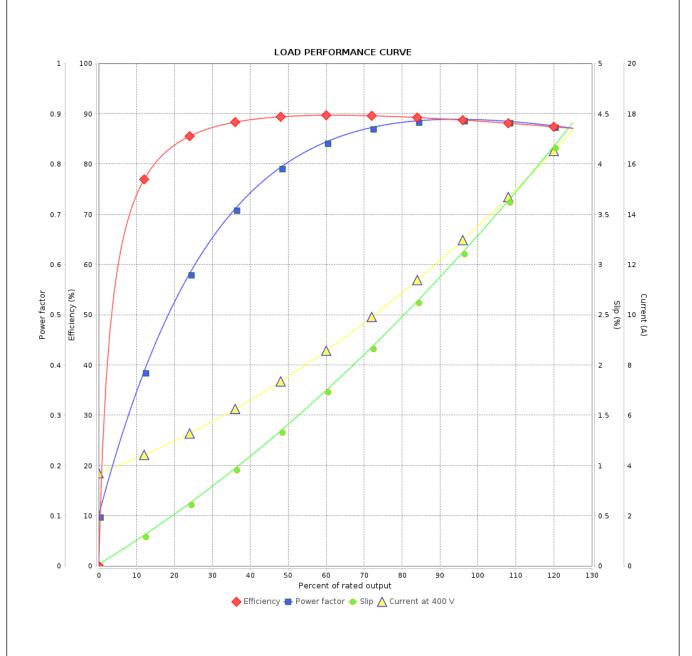


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Efficiency Three-Phase

Product code: 11940579



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 6.4 : 2.50 kgfm : 190 % : 250 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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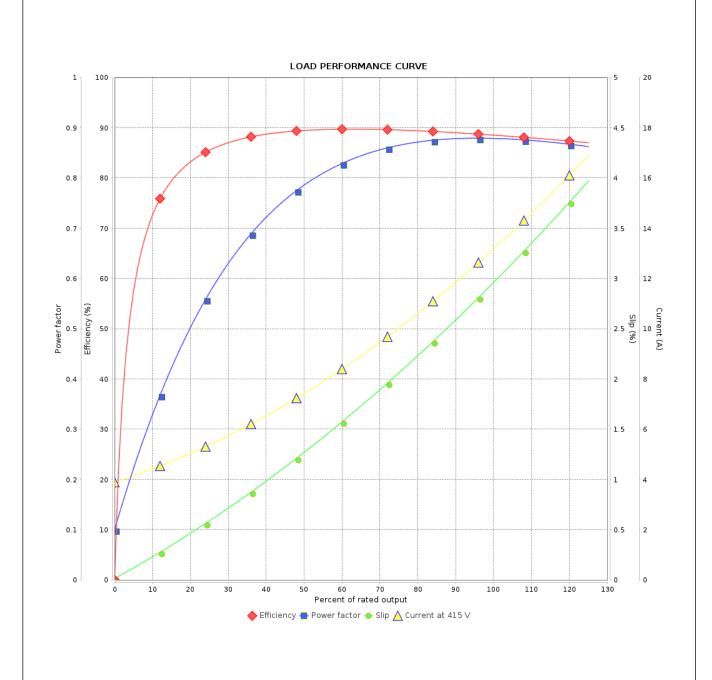
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current : 13.4 A		Moment of inertia (J)		: 0.0268 kgm²	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 2.49 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 270 %	Temperature rise		: 105 K	
Rated speed	: 2910 rpm	Design		: B	
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