### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11647930 : 182/4T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 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> : 44.4 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0095 kgm<sup>2</sup> Design : A Output [HP] 7.5 5.5 5.5 5.5 7.5 7.5 7.5 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 17.5/8.76 7.84 7.62 7.47 10.9 10.3 10.0 L. R. Amperes [A] 144/71.8 65.1 69.3 71.7 68.7 72.1 74.0 LRC [A] 8.2x(Code J) 8.3x(Code J) 9.1x(Code K) 9.6x(Code L) 6.3x(Code 7.0x(Code H) 7.4x(Code H) G) No load current [A] 5.80/2.90 2.70 3.00 3.20 2.70 3.00 3.20 Rated speed [RPM] 3485 2900 2910 2915 2810 2840 2860 Slip [%] 3.19 3.33 3.00 2.83 6.33 5.33 4.67 Rated torque [kgfm] 1.56 1.38 1.37 1.37 1.94 1.92 1.90 Locked rotor torque [%] 270 310 350 370 220 250 270 Breakdown torque [%] 330 360 390 430 260 280 310 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 27s (cold) Locked rotor time 30s (cold) 28s (cold) 27s (cold) 27s (cold) 28s (cold) 27s (cold) 17s (hot) 16s (hot) 15s (hot) 15s (hot) 16s (hot) 15s (hot) 15s (hot) Noise level<sup>2</sup> 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 88.5 85.5 85.9 86.2 87.0 87.5 88.0 Efficiency (%) 75% 89.5 87.0 87.6 88.1 87.0 88.0 88.5 100% 89.5 88.1 88.1 88.7 84.5 86.0 87.0 25% 50% 0.75 0.70 0.66 0.63 0.80 0.77 0.74 Power Factor 75% 0.84 0.82 0.79 0.77 0.88 0.86 0.84 100% 0.88 0.88 0.86 0.84 0.91 0.90 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P2 (0,5;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P3 (0,25;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 P4 (0,9;0,5) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 3.4 3.4 3.4 3.4 3.4 3.4 P6 (0,5;0,25) 2.1 2.1 2.1 2.1 2.1 2.1 2.1 P7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 101 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 146 kgf Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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01/02/2024

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

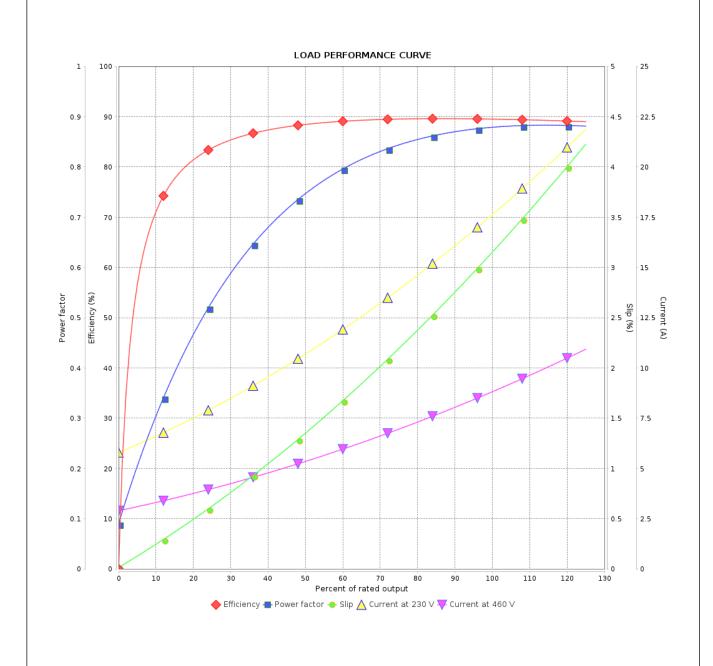


Customer :

Product line : W22 NEMA Premium Efficiency Three- Produ

Phase

Product code: 11647930



Performance :		30/460 V 60 Hz 2P				
Rated current : 17.		7.5/8.76 A	Moment of inertia (J)		: 0.0095 kgm²	
LRC : 8.2		2	Duty cycle		: Cont.(S1)	
Rated torque : 1.5		56 kgfm	gfm Insulation class		: F	
		70 %	Service factor		: 1.25	
Breakdown torque		30 %	Temperature rise		: 80 K	
Rated speed	: 34	185 rpm Design		: A		
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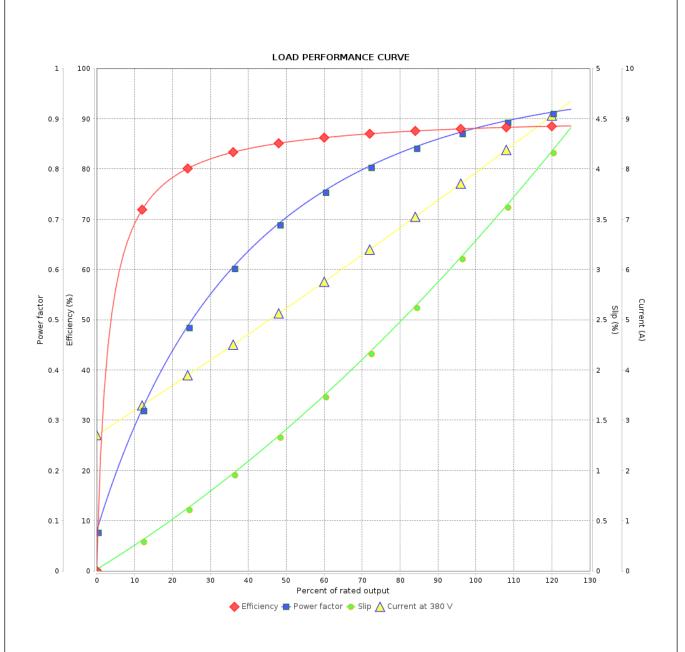
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency ThreeProduct code:

11647930



Performance	: 3	880 V 50 Hz 2P IE3					
Rated current		'.84 A	Moment o	Moment of inertia (J)		2	
LRC : 8		3.3	Duty cycle	Duty cycle			
Rated torque : 1		.38 kgfm	Insulation	Insulation class			
Locked rotor torque :		310 %	Service fa	Service factor			
Breakdown torque	: 3	860 %	Temperat	Temperature rise		: 80 K	
Rated speed	: 2	2900 rpm	Design		: A		
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

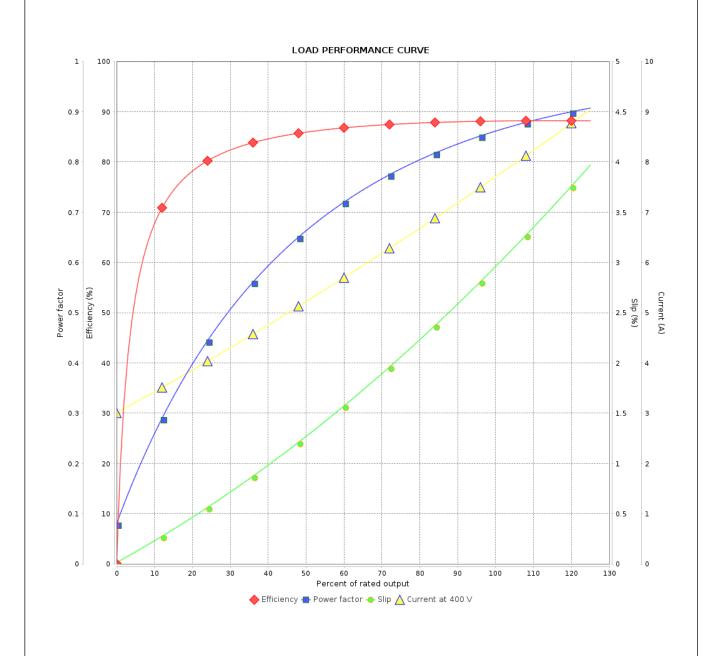
Product code :

11647930

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 1.37 kgfm : 350 % : 390 % : 2910 rpm			: 1.00 : 80 K	
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### Three Phase Induction Motor - Squirrel Cage



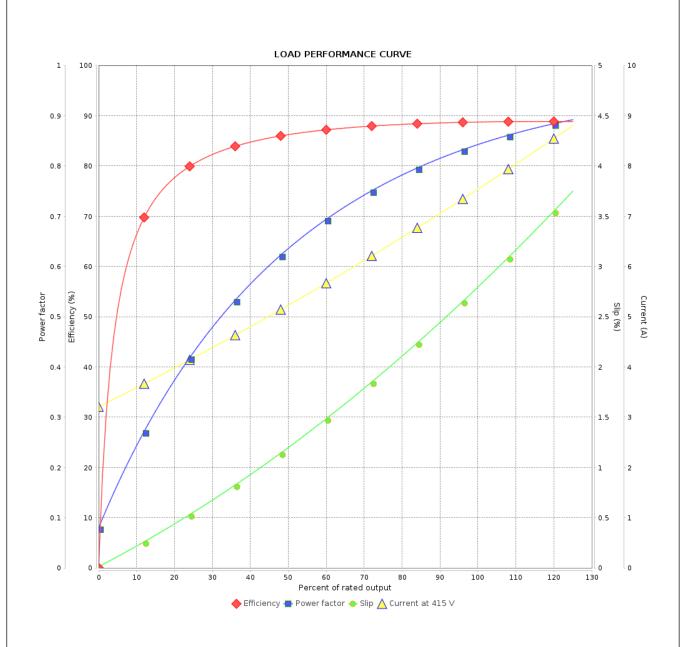
Customer :

Product line : W22 NEMA Premium Efficiency Three-

ree- Product code:

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	·					
Performance	: 4	15 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 1 jue : 3	.47 A .6 .37 kgfm 70 % 30 % 915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0095 kgm : Cont.(S1) : F : 1.00 : 80 K : A	2
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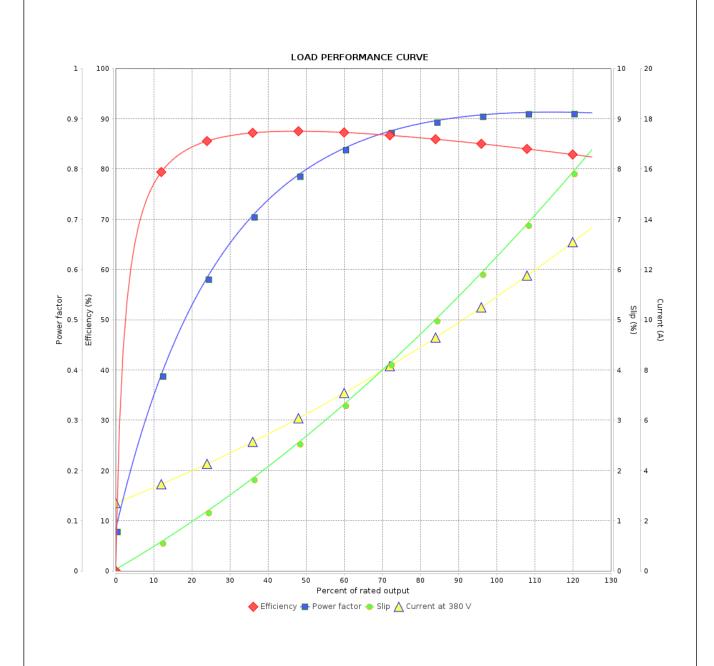


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11647930



Performance		: 380 V 50 Hz 2P				
Rated current		: 10.9 A	Moment of inertia (J)		: 0.0095 kgm²	
LRC		: 6.3	Duty cycle		: Cont.(S1)	
Rated torque		: 1.94 kgfm	Insulation class		: F	
Locked rotor torque		: 220 %	Service factor		: 1.00	
Breakdown torque		: 260 %	Temperature rise		: 80 K	
Rated speed		: 2810 rpm	Design		: A	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

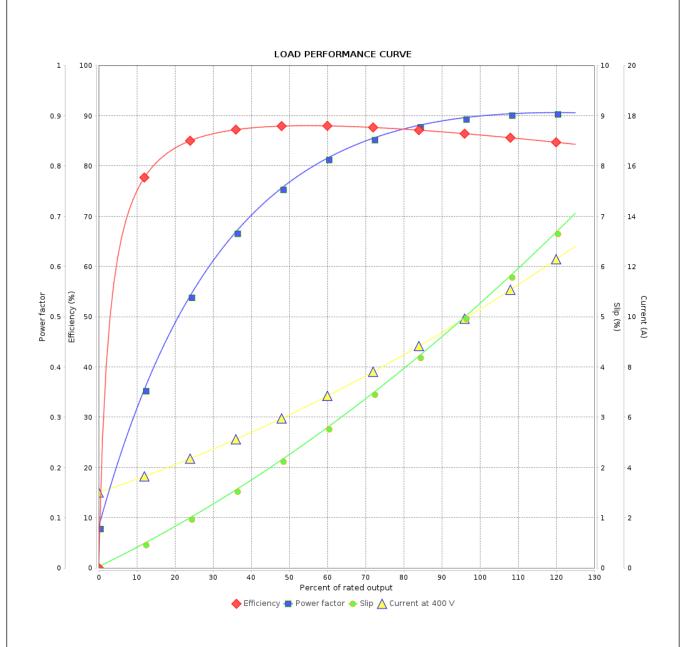
Product code:

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Performance	: 400 V 50 Hz 2P IE1			
Rated current LRC Rated torque	: 10.3 A : 7.0 : 1.92 kgfm	Moment of inertia (J) Duty cycle Insulation class	: 0.0095 kgm² : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 250 % : 280 % : 2840 rpm	Service factor : 1.00 Temperature rise : 80 K Design : A		
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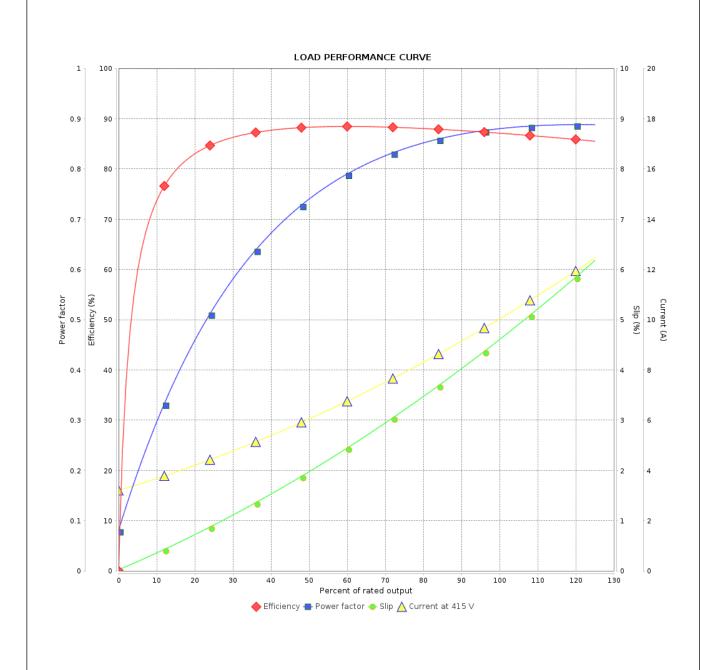


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11647930



Performance		415 V 50 Hz 2P IE2					
Rated current		10.0 A	Moment of	Moment of inertia (J)		2	
LRC :		7.4	Duty cycle	Duty cycle			
Rated torque		1.90 kgfm	Insulation class		: Cont.(S1) : F		
Locked rotor torque		270 %	Service fa	Service factor		: 1.00	
Breakdown torqu	ue :	310 %	Temperat	Temperature rise			
Rated speed	:	2860 rpm	Design		: A		
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