DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12912851 Frame Cooling method : IC411 - TEFC : 447/9T Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 1389 kg Altitude Protection degree : 4.98 kgm² : IP55 Moment of inertia (J) Design : A Output [HP] 350 300 300 300 Poles 4 4 4 4 50 50 Frequency [Hz] 60 50 Rated voltage [V] 460 380 400 415 Rated current [A] 399 405 389 379 L. R. Amperes [A] 3192 2957 3151 3373 LRC [A] 8.0x(Code J) 7.3x(Code H) 8.1x(Code J) 8.9x(Code K) No load current [A] 135 135 143 151 Rated speed [RPM] 1785 1483 1485 1487 Slip [%] 0.83 1.13 1.00 0.87 Rated torque [kgfm] 142 147 147 146 Locked rotor torque [%] 280 260 290 310 Breakdown torque [%] 280 260 290 310 Service factor 1.00 1.00 1.00 1.15 80 K Temperature rise 80 K 105 K 105 K Locked rotor time 25s (cold) 14s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 75.0 dB(A) 71.0 dB(A) 71.0 dB(A) 71.0 dB(A) 25% 50% 95.8 95.8 95.8 95.4 Efficiency (%) 75% 96.2 95.8 96.2 95.8 100% 96.2 96.0 96.0 96.2 25% 50% 0.73 0.73 0.70 0.68 Power Factor 75% 0.82 0.82 0.80 0.79 0.85 0.84 100% 0.85 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power

	P1 (0,9;1,0)	4.2	4.2	4.2	4.2
	P2 (0,5;1,0)	3.4	3.4	3.4	3.4
	P3 (0,25;1,0)	3.0	3.0	3.0	3.0
Losses (%)	P4 (0,9;0,5)	2.2	2.2	2.2	2.2
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7
				1	

Drive end Non drive end Foundation loads Bearing type NU-322 C3 6319 C3 Max. traction : 3276 kaf Sealing WSeal WSeal Max. compression : 4665 kgf 4000 h 8000 h Lubrication interval

Lubricant amount 60 g 45 q Mobil Polyrex EM Lubricant type

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 13/01/2024 1/6 Date

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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

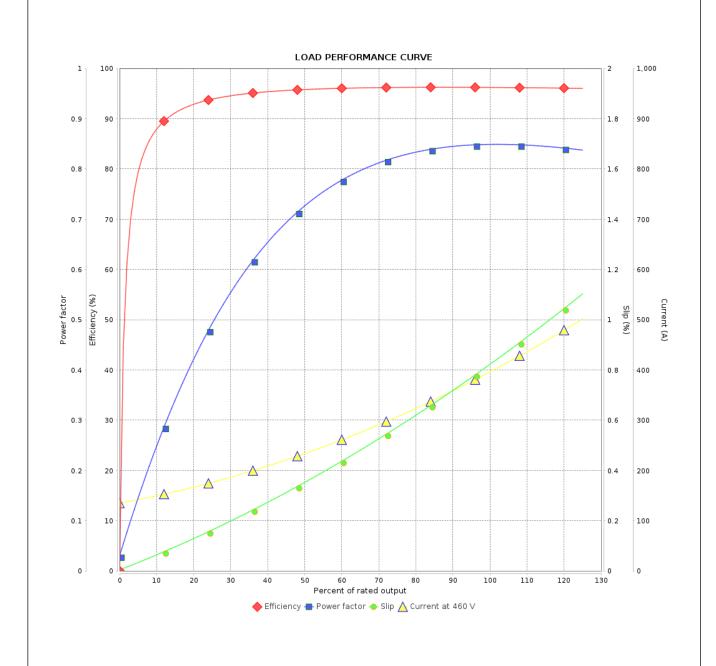
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3/6



13/01/2024

Date



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 399 A : 8.0 : 142 kgfm : 280 % : 280 % : 1785 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.98 kgm² : Cont.(S1) : F : 1.15 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage



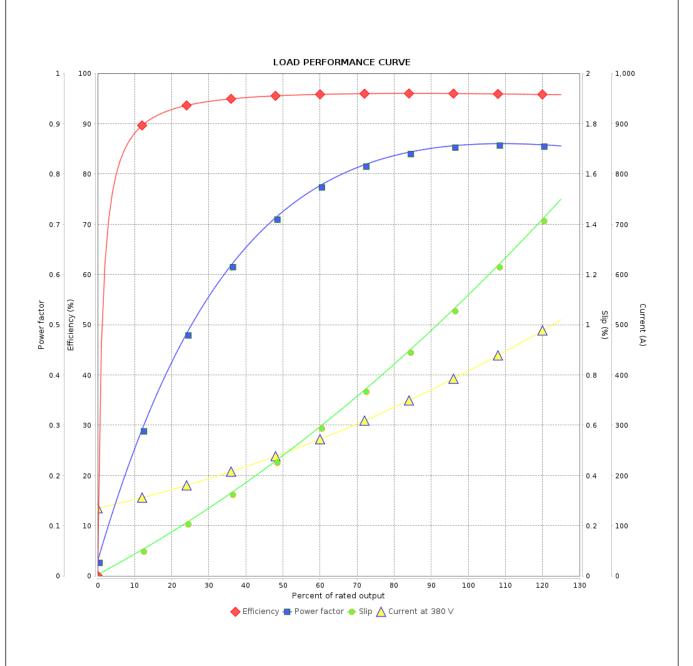
Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code:

12912851

4/6



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 405 A : 7.3 : 147 kgfm : 260 % : 260 % : 1483 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.98 kgm² : Cont.(S1) : F : 1.00 : 105 K : A	
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13/01/2024

Date

Three Phase Induction Motor - Squirrel Cage

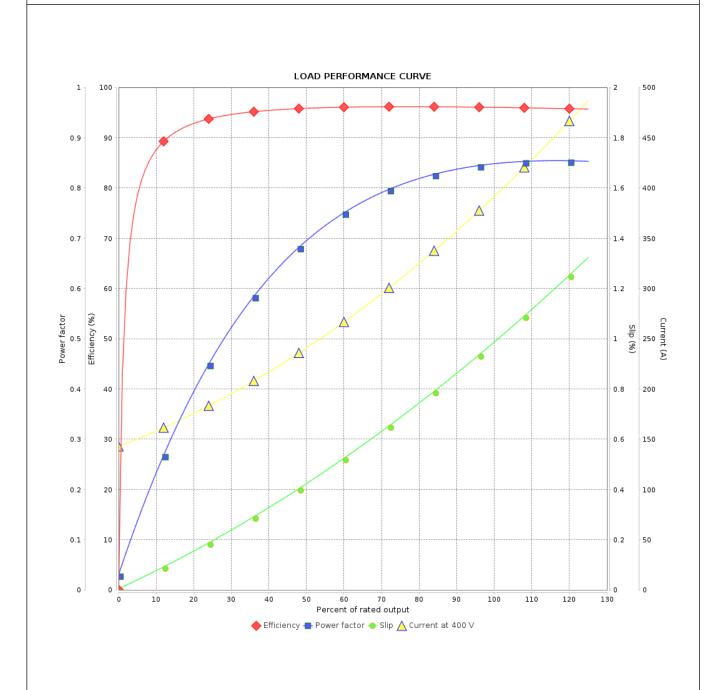


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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	389 A	Moment of inertia (J)		: 4.98 kgm²	
LRC		8.1	Duty cycle	Duty cycle		
Rated torque	:	: 147 kgfm Insulation class : 290 % Service factor : 290 % Temperature		class	: F	
Locked rotor torque	e :			ctor	or : 1.00	
Breakdown torque	:			Temperature rise		
Rated speed	:	1485 rpm	Design		: A	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Data	13/01/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code :

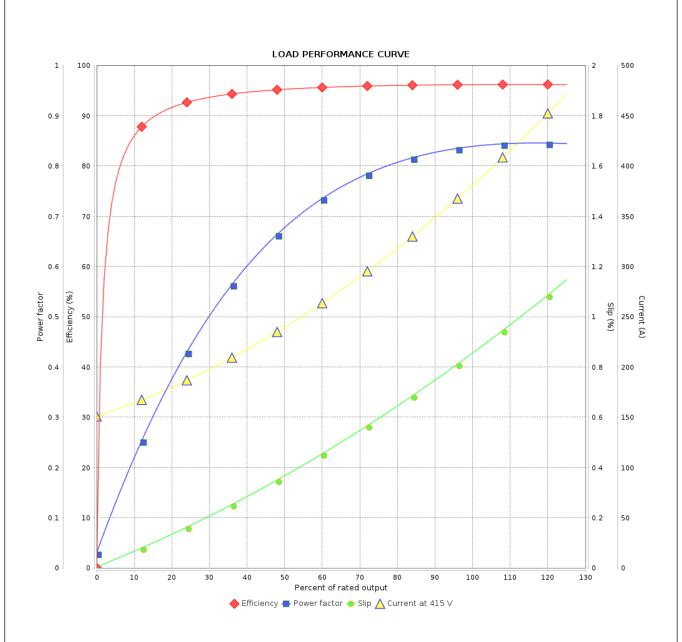
12912851

6/6



13/01/2024

Date



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 379 A : 8.9 : 146 kgfm : 310 % : 310 % : 1487 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) class : F ctor : 1.00	
Rev.	Changes Summary	Performed	Checked	Date
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