DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14325202 Premium Efficiency Three-Phase Frame : 213/5T Cooling method : IC411 - TEFC 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 : 90.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0504 kgm² Design : B Output [HP] 3 3 3 3 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 8.82/4.41 5.28 5.15 5.11 L. R. Amperes [A] 61.7/30.9 31.7 33.5 35.8 LRC [A] 7.0x(Code K) 6.0x(Code H) 6.5x(Code J) 7.0x(Code K) 2.40 No load current [A] 5.00/2.50 2.60 2.80 Rated speed [RPM] 1175 970 975 975 Slip [%] 2.08 3.00 2.50 2.50 Rated torque [kgfm] 1.85 2.24 2.23 2.23 Locked rotor torque [%] 180 155 180 210 Breakdown torque [%] 290 229 250 270 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 104s (cold) 58s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 85.4 83.4 83.5 83.5 50% 86.5 84.0 84.0 84.0 Efficiency (%) 75% 88.5 84.0 84.0 84.0 100% 89.5 84.4 84.4 84.4 25% 0.29 0.36 0.32 0.30 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.62 0.70 0.66 0.64 0.70 0.75 0.73 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 17.3 17.3 11.0 17.3 P2 (0,5;1,0) 8.4 13.2 13.2 13.2 P3 (0,25;1,0) 11.8 7.5 11.8 11.8 P4 (0,9;0,5) 10.6 Losses (%) 6.8 10.6 10.6 P5 (0,5;0,5) 4.3 6.8 6.8 6.8 P6 (0,5;0,25) 3.4 5.3 5.3 5.3 P7 (0,25;0,25) 2.4 3.7 3.7 3.7 Non drive end Foundation loads Drive end Bearing type 6308 2RS 6207 2RS : 66 kaf Max. traction Sealing Oil Seal Lip Seal Max. compression : 156 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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28/10/2024

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Date

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Three Pha	se Inductio	n Motor - Squii	rrel Cage			<u> ШЕЦ</u>
Customer	:					
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Three Phase Induction Motor - Squirrel Cage



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Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Three Phase Induction Motor - Squirrel Cage



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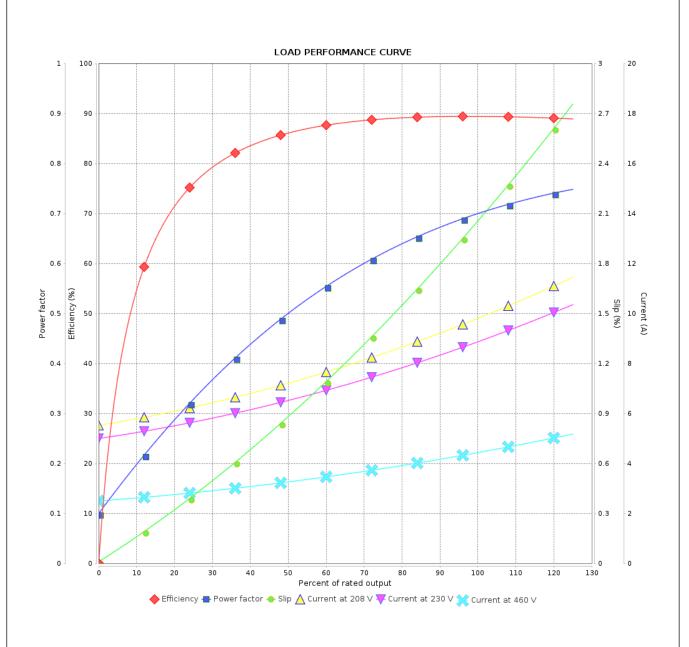
Date

28/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325202



Performance	: 2	230/460 V 60 Hz 6P				
LRC : 7 Rated torque : 1 Locked rotor torque : 1 Breakdown torque : 2		3.82/4.41 A 7.0 .85 kgfm 80 % !90 % 175 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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Three Phase Induction Motor - Squirrel Cage



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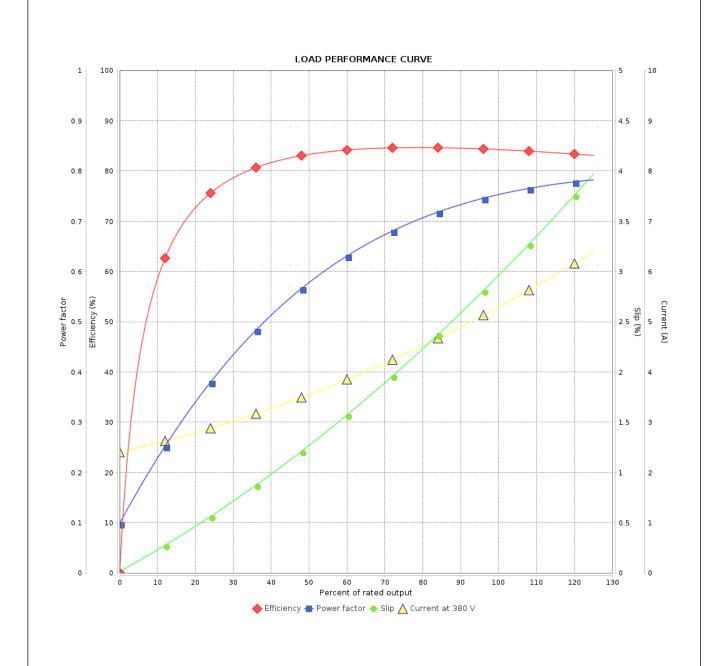
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325202



Performance		: 380 V 50 Hz 6	SP IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 5.28 A : 6.0 : 2.24 kgfm : 155 % : 229 % : 970 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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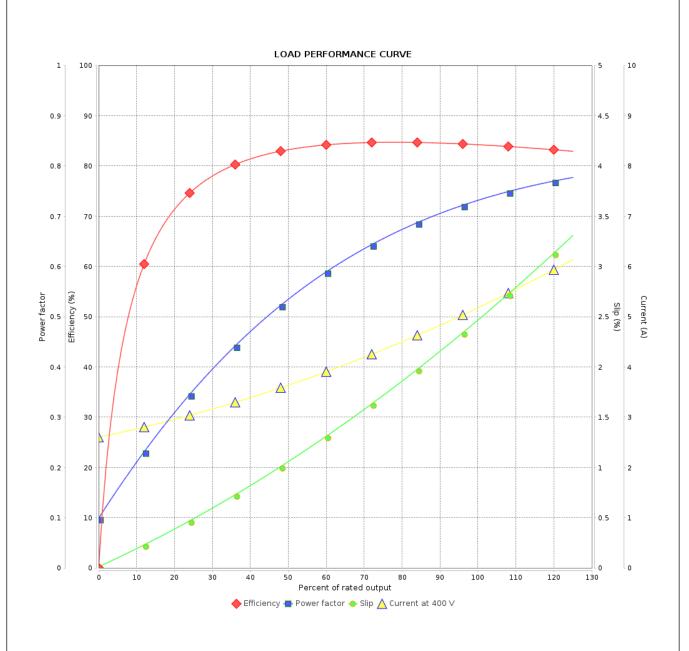


Customer :

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Premium Efficiency Three-Phase

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.15 A : 6.5 : 2.23 kgfm : 180 % : 250 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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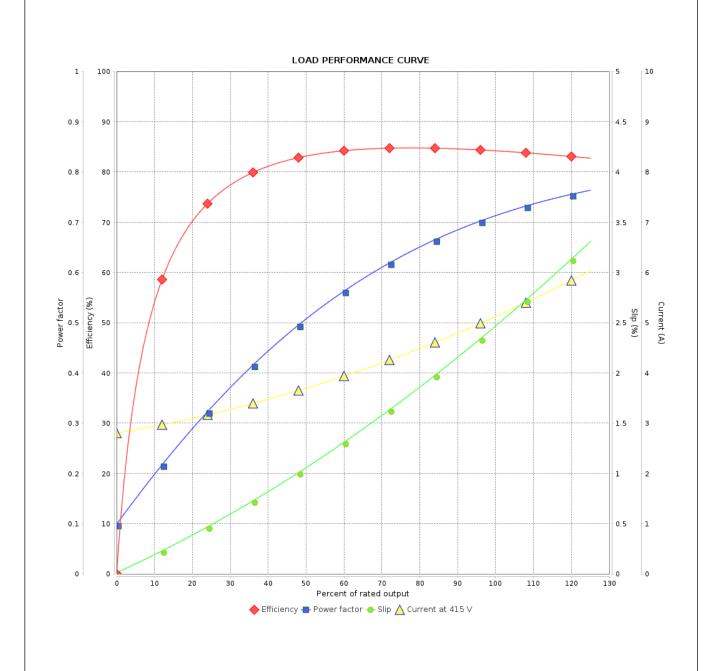


Customer :

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Premium Efficiency Three-Phase

Product code: 14325202



Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 5.11 A	Moment of	f inertia (J)	: 0.0504 kgm	2
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 2.23 kgfm	Insulation	class	: F	
Locked rotor tor	que : 210 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 270 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 975 rpm	Design		: B	
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Rateu speeu	. 9	75 Ipili	Design		. Б	
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