DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14325198 Efficiency Three-Phase : 182/4T Cooling method Frame : IC411 - TEFC Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 60.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0224 kgm² Design : B Output [HP] 2 2 2 2 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 230/460 Rated voltage [V] 380 400 415 Rated current [A] 6.26/3.13 3.66 3.59 3.56 L. R. Amperes [A] 46.9/23.5 22.0 24.1 25.3 7.1x(Code L) LRC [A] 7.5x(Code L) 6.0x(Code J) 6.7x(Code K) No load current [A] 4.00/2.00 1.80 1.95 2.05 Rated speed [RPM] 1165 955 960 965 Slip [%] 2.92 4.50 4.00 3.50 Rated torque [kgfm] 1.25 1.52 1.51 1.50 Locked rotor torque [%] 300 220 260 300 Breakdown torque [%] 330 240 270 300 1.00 Service factor 1.15 1.00 1.00 80 K 80 K 80 K Temperature rise 80 K 82s (cold) 46s (hot) 90s (cold) 50s (hot) 77s (cold) 43s (hot) 70s (cold) 39s (hot) Locked rotor time Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 82.5 87.5 86.1 85.1 50% 84.5 87.0 86.5 85.5 Efficiency (%) 75% 87.5 87.5 87.5 86.5 100% 88.5 86.5 87.5 87.5 25% 0.29 0.27 0.26 0.32 50% 0.47 0.49 0.53 0.46 Power Factor 75% 0.58 0.65 0.62 0.59 0.72 0.69 100% 0.68 0.67 Losses at normative operating points (speed;torque), in percentage of rated output power 13.5 13.5 P1 (0,9;1,0) 12.3 14.7 P2 (0,5;1,0) 10.9 9.9 11.9 10.9 P3 (0,25;1,0) 10.2 9.3 11.2 10.2 P4 (0,9;0,5) Losses (%) 7.3 8.7 8.0 8.0 P5 (0,5;0,5) 5.0 6.0 5.5 5.5 P6 (0,5;0,25) 3.9 4.6 4.3 4.3 P7 (0,25;0,25) 2.9 3.4 3.2 3.2 Foundation loads Drive end Non drive end 6307 2RS 6206 2RS Bearing type : 64 kaf Max. traction Sealing Oil Seal Lip Seal : 125 kgf Max. compression 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after

manufacturing p	rocess.				
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DATA SHEET

Checked by

Date

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	se Induction N	Motor - Squirrel Ca	age		ШЕЦ
Customer	:				
Notes USABLE @208\	√ 6.92A SF 1.15 SFA	7.96A			
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Revision

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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

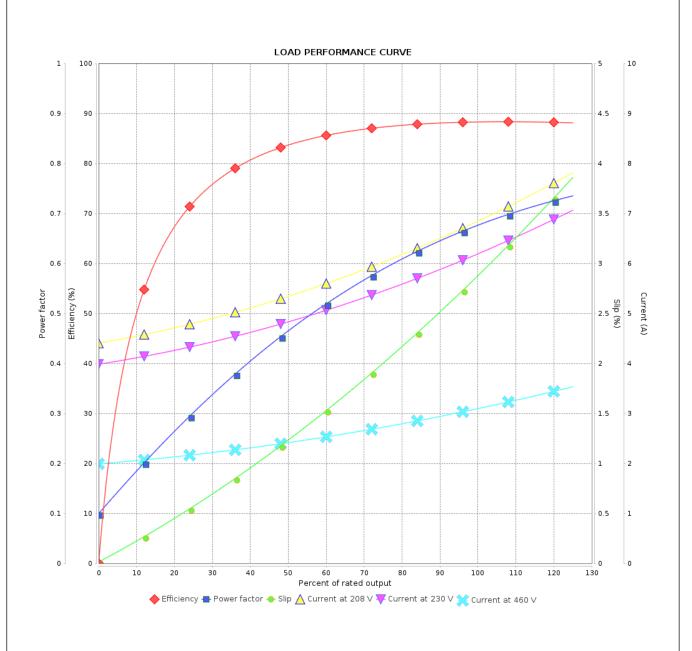


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325198



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 6	5.26/3.13 A	Moment o	of inertia (J)	: 0.0224 kgm ²	2
LRC	: 7	7.5	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	.25 kgfm	Insulation	class	: F	
Locked rotor torque		00 %	Service fa	actor	: 1.15	
Breakdown torque	: 3	30 %	Temperat	Temperature rise		
Rated speed	: 1	165 rpm	Design		: B	
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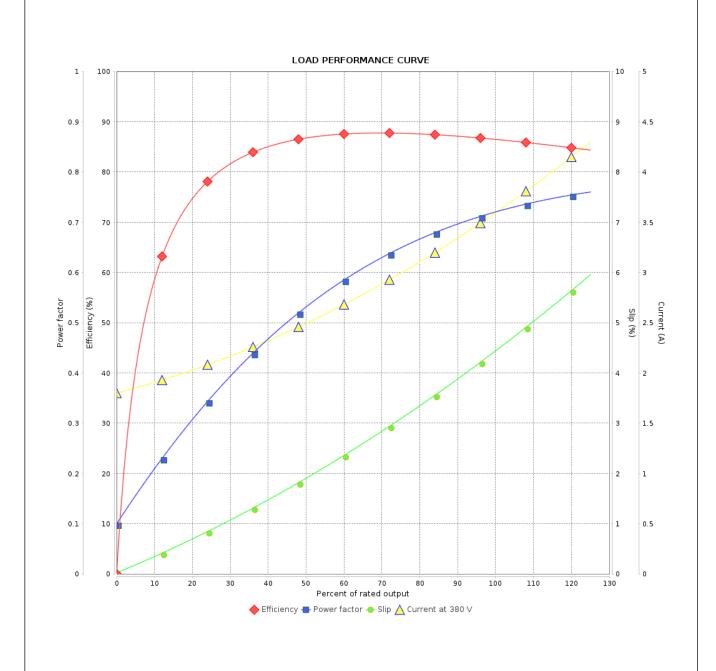


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325198



Performance	: 38	0 V 50 Hz 6P IE4					
Rated current		66 A	1	Moment of inertia (J)		1 ²	
LRC	: 6.0)	Duty cyc	Duty cycle			
Rated torque	ted torque : 1.52 kgfm Insulation class		n class	: F			
Locked rotor torque		0 %	Service f	Service factor			
Breakdown torqu	ie : 24	0 %	Tempera	Temperature rise		: 80 K	
Rated speed : 955 rpm		Design	Design				
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Rateu speeu	. 93	oo ipiii	Design		. Б	
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Three Phase Induction Motor - Squirrel Cage

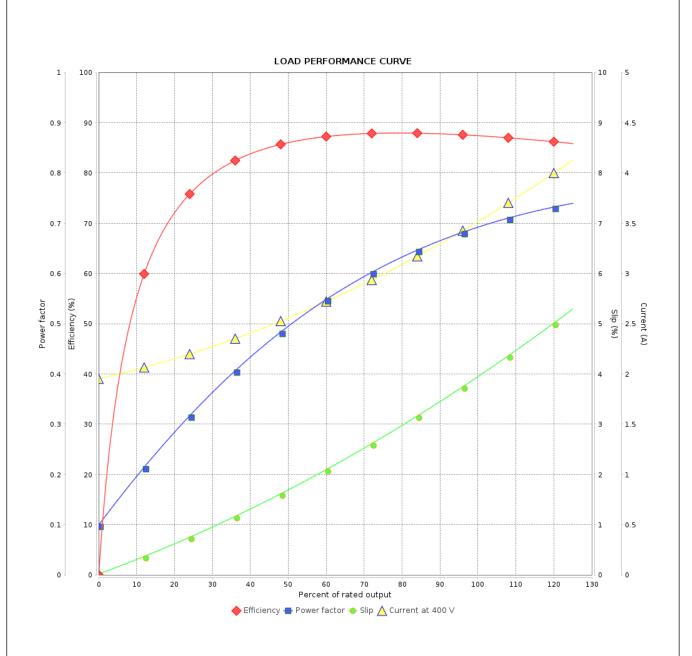


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325198



Performance	: 400 V 50 Hz 6P IE4			
renormance	. 400 V 30 HZ 0F 1E4	1		
Rated current	: 3.59 A	Moment of inertia (J)	: 0.0224 kgm ²	2
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque : 1.51 kgfm		Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K : B	
Rated speed	: 960 rpm	Design		
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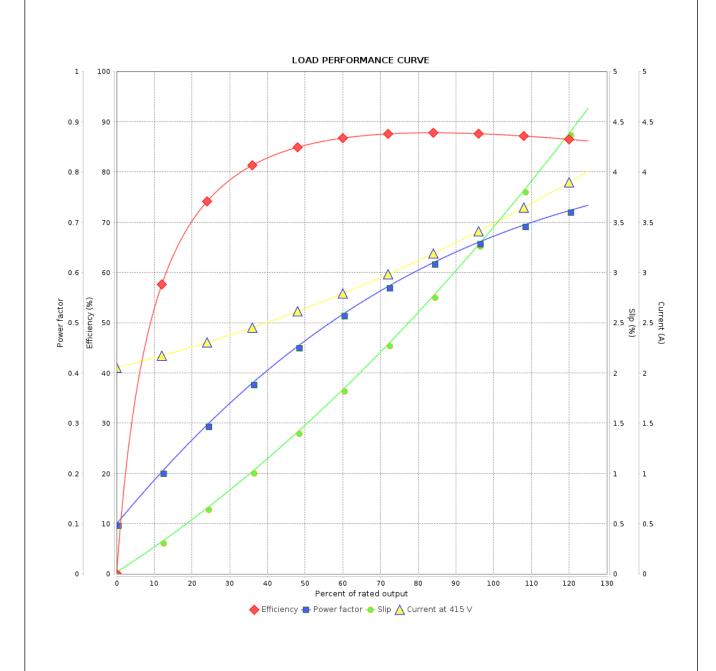


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325198



Performance		: 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 3.56 A : 7.1 : 1.50 kgfm : 300 % : 300 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0224 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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