DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14454602 Efficiency Three-Phase : 284TSC Cooling method : IC411 - TEFC Frame 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 Approx. weight³ : 212 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.1086 kgm² Design : B Output [HP] 25 25 25 25 Poles 2 2 2 2 60 Frequency [Hz] 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 57.1/28.6 34.7 33.1 31.7 L. R. Amperes [A] 383/191 184 195 275 LRC [A] 6.7x(Code G) 5.3x(Code E) 5.9x(Code F) 8.7x(Code J) No load current [A] 12.6/6.30 6.00 6.50 7.00 Rated speed [RPM] 3545 2920 2930 2940 Slip [%] 1.53 2.67 2.33 2.00 Rated torque [kgfm] 5.12 6.21 6.19 6.17 180 Locked rotor torque [%] 240 210 229 Breakdown torque [%] 240 180 200 220 Service factor 1.00 1.00 1.00 1.15 80 K 80 K 80 K 80 K Temperature rise 45s (cold) 25s (hot) 25s (cold) 14s (hot) Locked rotor time 59s (cold) 33s (hot) 45s (cold) 25s (hot) Noise level² 75.0 dB(A) 70.0 dB(A) 70.0 dB(A) 70.0 dB(A) 25% 50% 91.7 91.7 91.7 91.7 Efficiency (%) 75% 92.4 91.7 91.7 91.7 100% 92.4 91.0 91.7 92.4 25% 50% 0.78 0.82 0.80 0.77 Power Factor 75% 0.85 0.87 0.86 0.85 0.88 0.88 100% 0.88 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 7.8 7.8 P2 (0,5;1,0) 7.1 5.9 5.9 6.5 P3 (0,25;1,0) 5.0 5.0 6.0 5.5 P4 (0,9;0,5) Losses (%) 3.7 4.5 4.1 3.7 P5 (0,5;0,5) 2.5 2.1 2.1 2.3 P6 (0,5;0,25) 1.2 1.5 1.4 1.2 P7 (0,25;0,25) 0.7 0.8 0.8 0.7 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 88 kaf Sealing Oil Seal Lip Seal Max. compression : 300 kgf 14226 h Lubrication interval 11517 h Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type 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 process.

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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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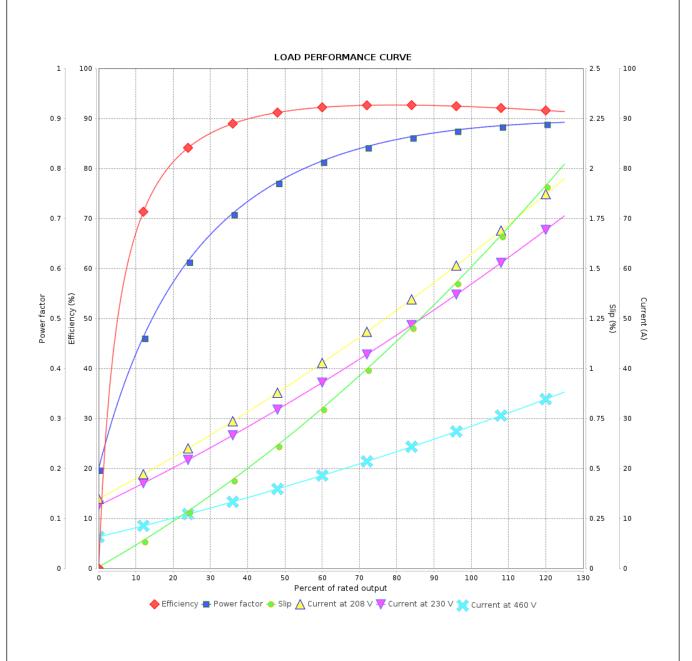


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14454602



Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current : 57		7.1/28.6 A	Moment of	Moment of inertia (J)		2		
LRC	: 6	.7	Duty cycle	е	: Cont.(S1)			
Rated torque	: 5	.12 kgfm	Insulation	class	: F			
Locked rotor torqu	ue : 24	40 %	Service fa	actor	: 1.15			
Breakdown torque		40 %	Temperat	Temperature rise				
Rated speed	: 3	545 rpm	Design		: B			
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Three Phase Induction Motor - Squirrel Cage

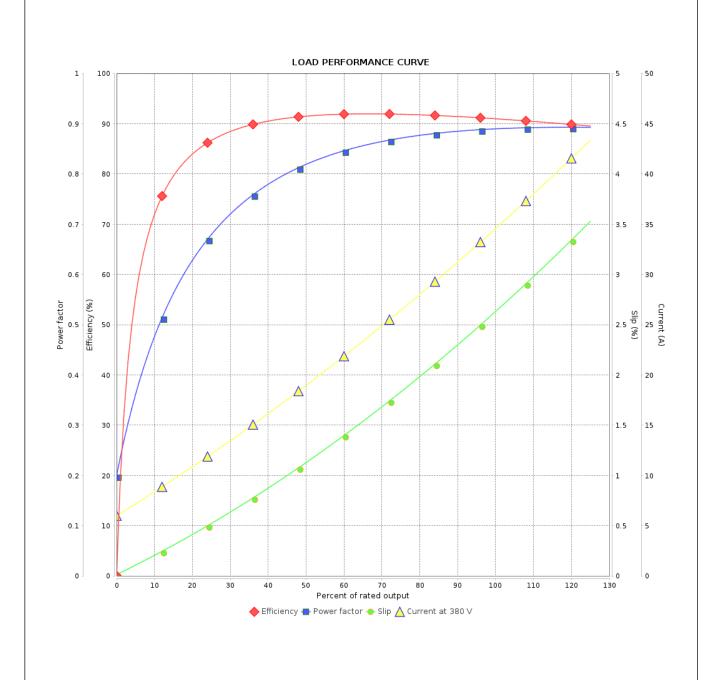


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14454602



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current : 34		4.7 A	Moment o	Moment of inertia (J)		2
LRC	: 5	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 6	.21 kgfm	Insulation	class	: F	
Locked rotor torque	e : 18	80 %	Service fa	ctor	: 1.00	
		80 %	Temperature rise		: 80 K	
Rated speed	: 29	920 rpm	Design		: B	
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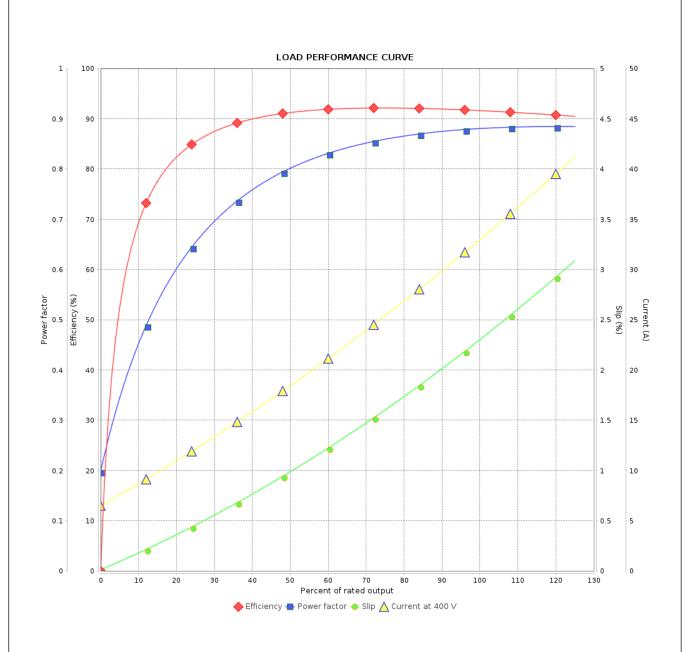


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14454602



Performance	: 400 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.1 A : 5.9 : 6.19 kgfm : 210 % : 200 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1086 kgm² : Cont.(S1) : F : 1.00 : 80 K : B				
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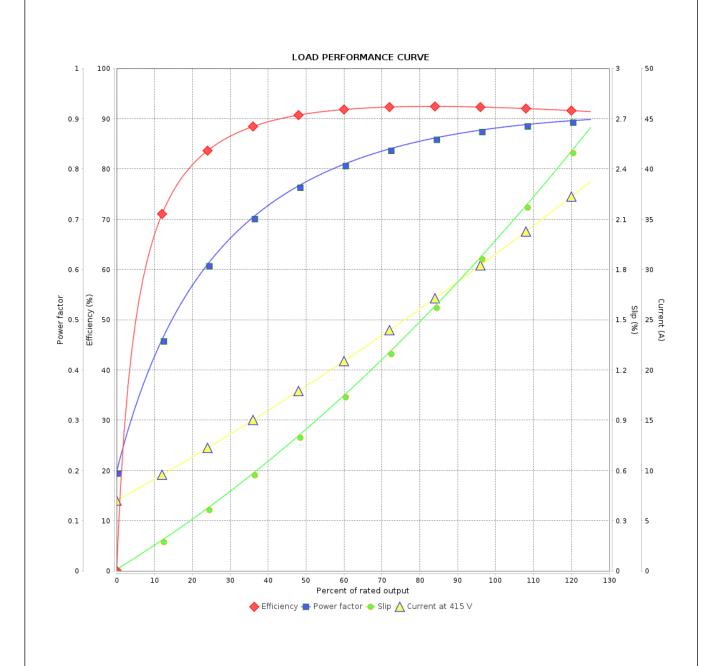


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14454602



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.7 A : 8.7 : 6.17 kgfm : 229 % : 220 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		uty cycle : Cont.(S1) isulation class : F ervice factor : 1.00 emperature rise : 80 K	
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