### DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14337969 Efficiency Three-Phase Frame : 182/4TC Cooling method : IC411 - TEFC Insulation class : F Mounting : 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 Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 55.7 kg Protection degree : IP55 Moment of inertia (J) : 0.0117 kgm<sup>2</sup> Design : B Output [HP] 3 3 3 3 Poles 4 4 4 4 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 8.02/4.01 4.49 4.72 4.59 L. R. Amperes [A] 64.2/32.1 30.7 32.1 34.1 LRC [A] 8.0x(Code K) 6.5x(Code H) 7.0x(Code J) 7.6x(Code K) No load current [A] 4.20/2.10 2.20 2.50 2.70 Rated speed [RPM] 1760 1450 1455 1460 Slip [%] 2.22 3.33 3.00 2.67 Rated torque [kgfm] 1.24 1.50 1.50 1.49 Locked rotor torque [%] 250 215 229 260 Breakdown torque [%] 320 250 260 290 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 45s (cold) 25s (hot) 45s (cold) 25s (hot) Locked rotor time 50s (cold) 28s (hot) 45s (cold) 25s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 86.2 89.2 88.1 86.4 50% 87.3 88.5 87.5 86.7 Efficiency (%) 75% 88.5 88.5 88.5 88.5 100% 89.5 87.5 87.5 88.5 25% 0.35 0.38 0.34 0.31 50% 0.59 0.63 0.59 0.55 Power Factor 75% 0.71 0.75 0.71 0.69 0.77 0.79 0.77 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 12.2 11.0 13.4 P2 (0,5;1,0) 8.7 10.6 10.6 9.6 P3 (0,25;1,0) 8.3 10.1 9.2 10.1 P4 (0,9;0,5) 6.4 7.8 7.8 7.1 Losses (%) P5 (0,5;0,5) 4.7 4.2 5.1 5.1 P6 (0,5;0,25) 3.2 3.9 3.9 3.6 P7 (0,25;0,25) 2.3 2.8 2.8 2.6 Drive end Non drive end Foundation loads Bearing type 6307 2RS 6206 2RS Max. traction : 62 kaf Sealing Oil Seal Lip Seal Max. compression : 118 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 power supply, subject to the tolerances stipulated in NEMA must be eliminated. (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. **Changes Summary** Performed Checked Rev. Date Performed by

Checked by			Page	Revision
Date	15/01/2024		1/7	
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# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
Customer	:			
Notes USABLE @208\	/ 8.65A SF 1.15 SFA 9.94A			
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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



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#### Thermal protection

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

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### Three Phase Induction Motor - Squirrel Cage

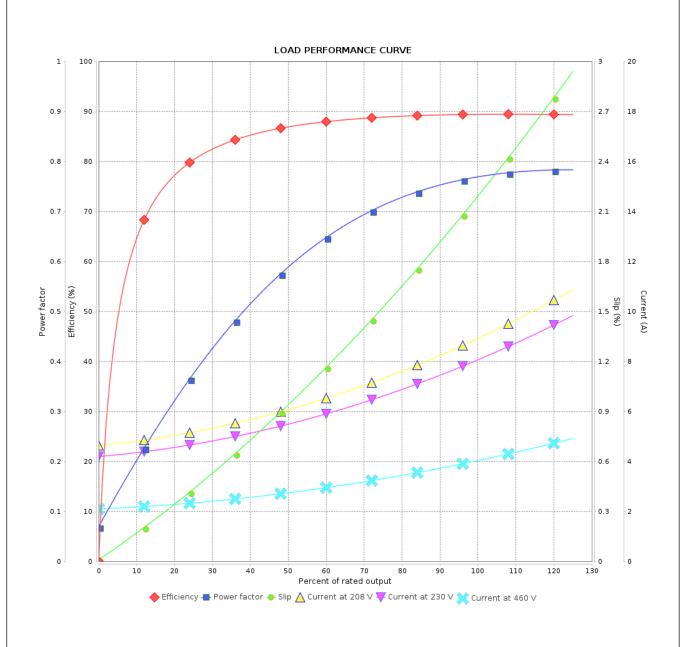


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14337969



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.02/4.01 A : 8.0 : 1.24 kgfm : 250 % : 320 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0117 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

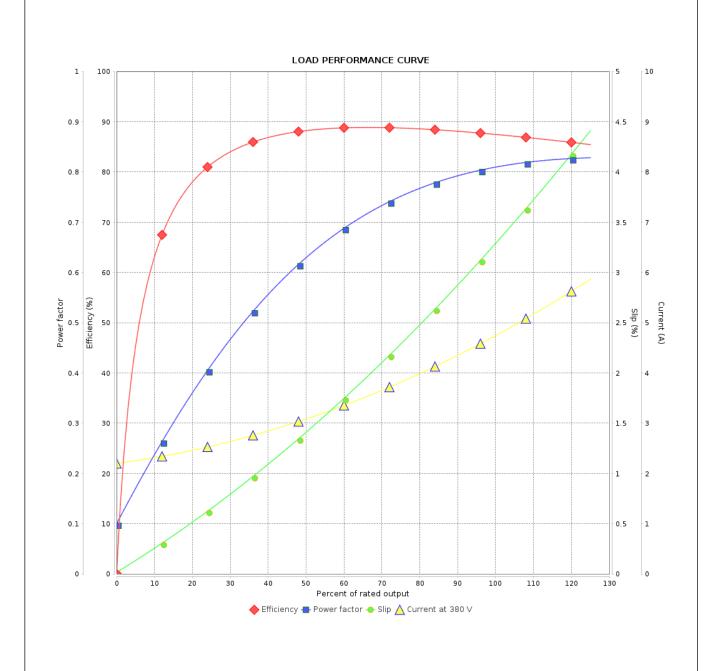


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14337969



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.72 A : 6.5 : 1.50 kgfm : 215 % : 250 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0117 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Date

### Three Phase Induction Motor - Squirrel Cage

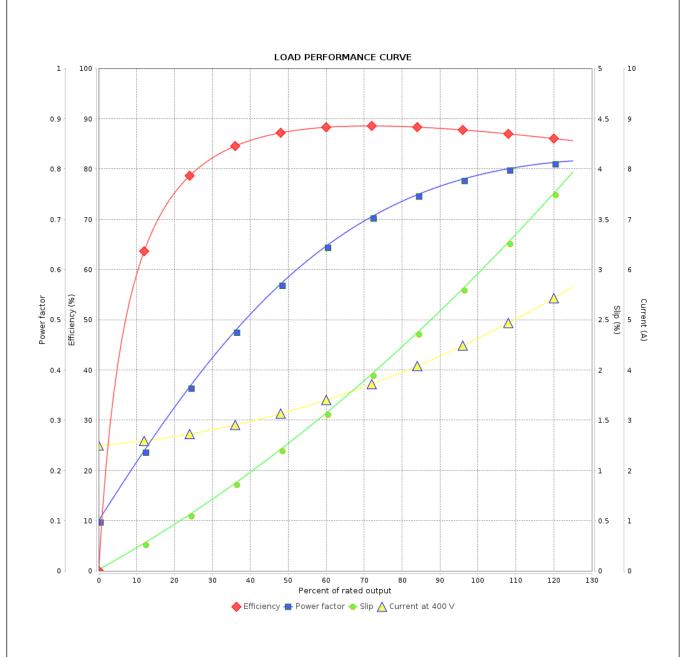


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14337969



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current : 4.59 A		.59 A	Moment of	of inertia (J)	: 0.0117 kgm²	
LRC	LRC : 7.0		Duty cycle	e	: Cont.(S1)	
Rated torque : 1.50 kgfm		Insulation	Insulation class			
1		29 %	Service fa	actor	: 1.00	
Breakdown torque		60 %	Temperat	ure rise	: 80 K	
Rated speed		455 rpm	Design		: B	
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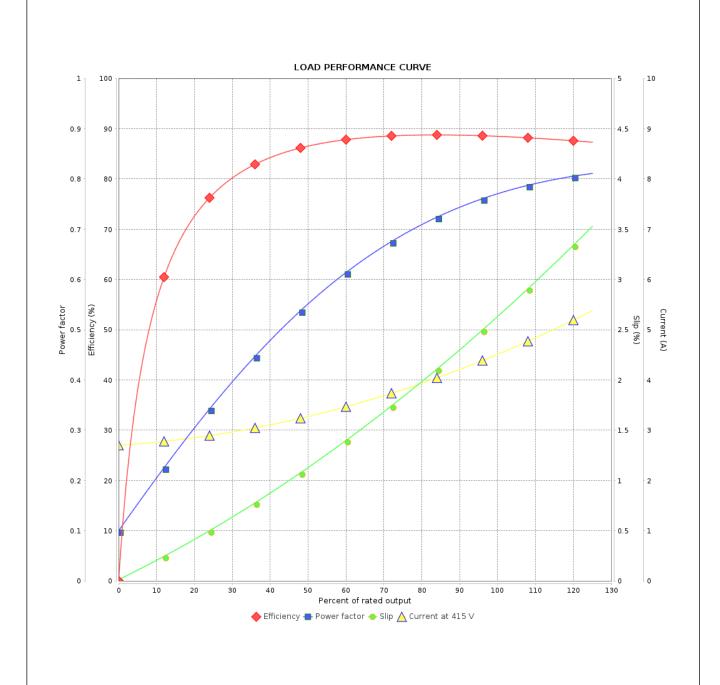


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14337969



Performance	:	: 415 V 50 Hz 4P IE3				
Rated current : 4.		4.49 A	Moment o	Moment of inertia (J)		2
LRC	:	7.6	Duty cycle	•	: Cont.(S1)	
Rated torque	:	1.49 kgfm	Insulation	Insulation class		
Locked rotor torg	jue :	260 %	Service fa	ctor	: 1.00	
Breakdown torque		290 %	Temperate	Temperature rise		
Rated speed	:	1460 rpm	Design		: B	
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