### DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14353304 Efficiency Three-Phase Frame : 213/5T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F 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> : 92.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm<sup>2</sup> Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.20 7.82 7.65 L. R. Amperes [A] 92.9/46.4 45.1 47.7 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.00 1.00 1.15 1.00 Temperature rise 80 K 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level<sup>2</sup> 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 88.2 89.8 89.1 87.2 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 0.34 0.40 0.37 0.35 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 13.5 11.1 P2 (0,5;1,0) 11.1 10.1 9.1 11.8 P3 (0,25;1,0) 9.8 8.8 11.4 10.8 P4 (0,9;0,5) 7.1 Losses (%) 5.8 7.5 6.4 P5 (0,5;0,5) 4.0 5.2 4.9 4.5 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 2RS 6207 2RS Max. traction : 126 kgf Sealing Oil Seal Lip Seal Max. compression : 219 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 (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. Dov Changes Summary Performed Chackad Data

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Date	15/01/2024			1/7	
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# DATA SHEET



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Performed by					
Checked by				Page	Revision
Date	15/01/2024			2/7	

# DATA SHEET

### 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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			3/7	

#### Three Phase Induction Motor - Squirrel Cage



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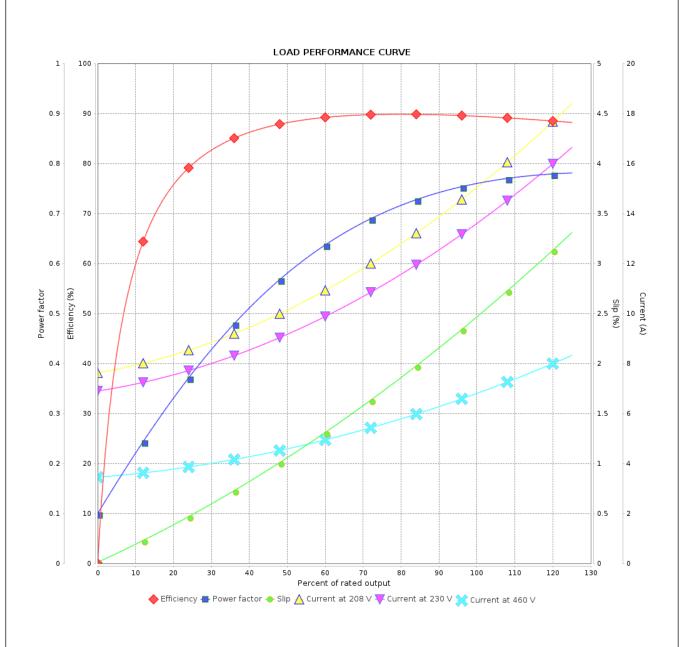
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15/01/2024

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14353304



Performance : 230/460 V 60 Hz 6P : 13.7/6.83 A : 0.0620 kgm<sup>2</sup> Moment of inertia (J) Rated current **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class : 3.10 kgfm : F Rated torque Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

4/7

### Three Phase Induction Motor - Squirrel Cage

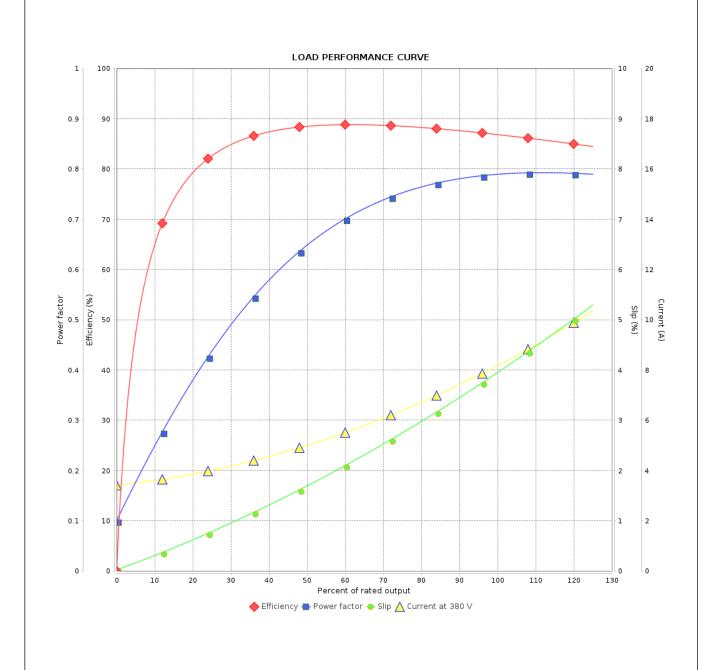


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14353304



Performance		: 380 V 50 Hz 6P II	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 8.20 A : 5.5 : 3.78 kgfm : 150 % : 215 % : 960 rpm	Duty cyc Insulatio Service t	n class	: 0.0620 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2
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Date	15/01/2024		5/7	
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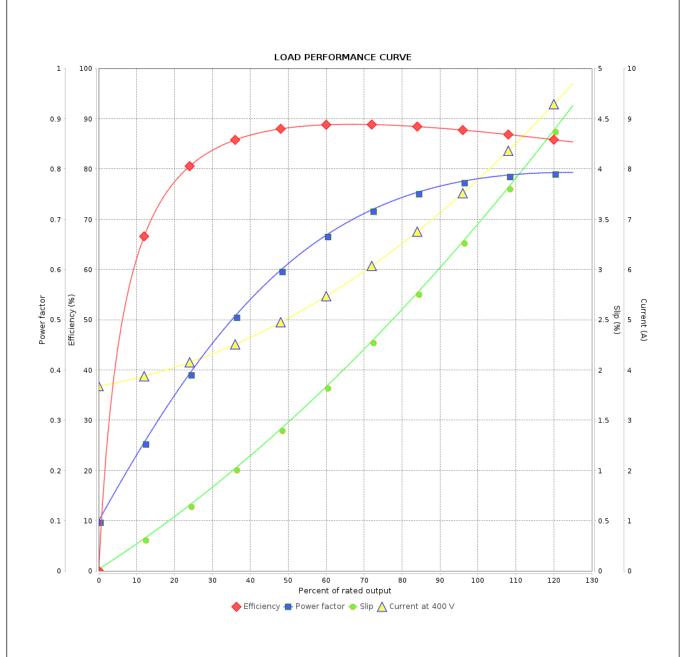


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14353304



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 7.82 A	Moment of inertia (J)		: 0.0620 kgm²	
LRC Rated torque	: 6.1 : 3.76 kgfm	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 160 %	Service factor		: 1.00	
Breakdown torque Rated speed	: 220 % : 965 rpm	Temperatu Design	ıre rise	: 80 K : B	
Rev.	Changes Summary	Design	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/7

15/01/2024

Date

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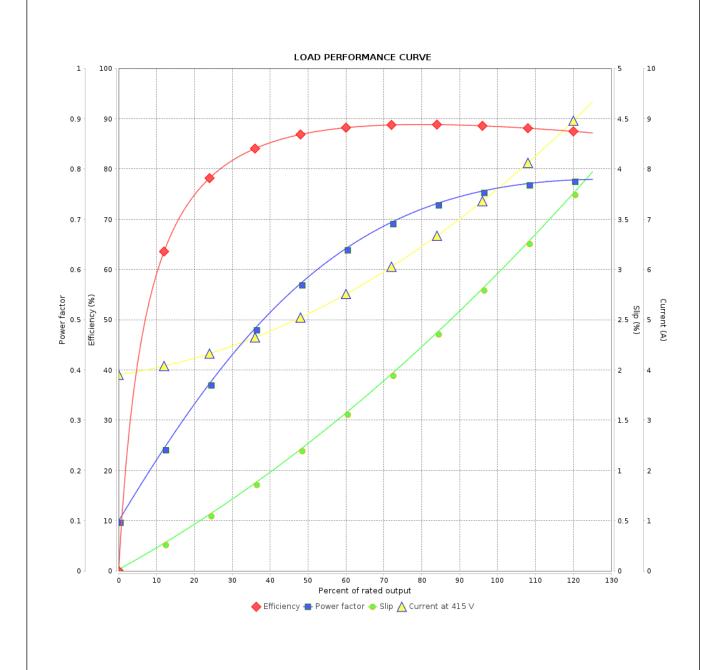


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14353304



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current :		.65 A	Moment o	f inertia (J)	: 0.0620 kgm²	
LRC : 6.8		.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	.74 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque : 2		50 %	Temperati	Temperature rise		
Rated speed	: 9	70 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
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Checked by					Page	Revision
Date	15/01/2024	1			7/7	