### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14325198 Premium Efficiency Three-Phase Frame : 182/4T 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 : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 60.7 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0224 kgm<sup>2</sup> Design : B Output [HP] 2 2 2 2 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 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 LRC [A] 7.5x(Code L) 6.0x(Code J) 6.7x(Code K) 7.1x(Code L) 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 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K 90s (cold) 50s (hot) 70s (cold) 39s (hot) Locked rotor time 82s (cold) 46s (hot) 77s (cold) 43s (hot) Noise level<sup>2</sup> 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% 86.5 87.5 87.5 87.5 100% 88.5 86.5 87.5 87.5 25% 0.26 0.32 0.29 0.27 50% 0.47 0.53 0.49 0.46 Power Factor 75% 0.58 0.65 0.62 0.59 0.72 0.69 0.67 100% 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.3 13.5 13.5 14.7 P2 (0,5;1,0) 9.9 10.9 10.9 11.9 P3 (0,25;1,0) 11.2 10.2 10.2 9.3 P4 (0,9;0,5) 8.7 Losses (%) 7.3 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 Non drive end Foundation loads Drive end Bearing type 6307 2RS 6206 2RS : 64 kaf Max. traction Sealing Oil Seal Lip Seal Max. compression : 125 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

1/7

28/10/2024

Date

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			шец
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Rev.		Changes Summary	Performed	Спескеа	Date
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Checked by				Page	Revision
Date	28/10/2024			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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/10/2024			3/7	

### Three Phase Induction Motor - Squirrel Cage



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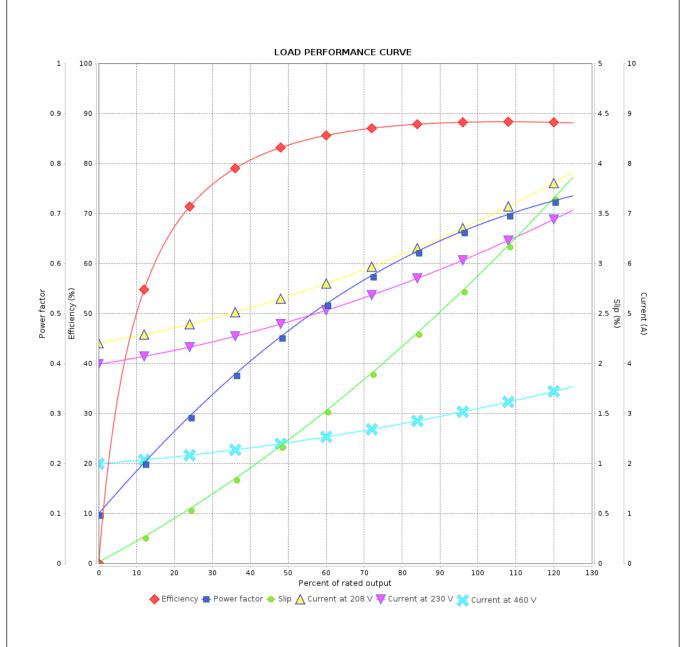
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28/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325198



Performance	: 2	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 1  ue : 3  ue : 3	.26/3.13 A .5 .25 kgfm 00 % 30 % 165 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0224 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
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Page

4/7

Revision

### Three Phase Induction Motor - Squirrel Cage

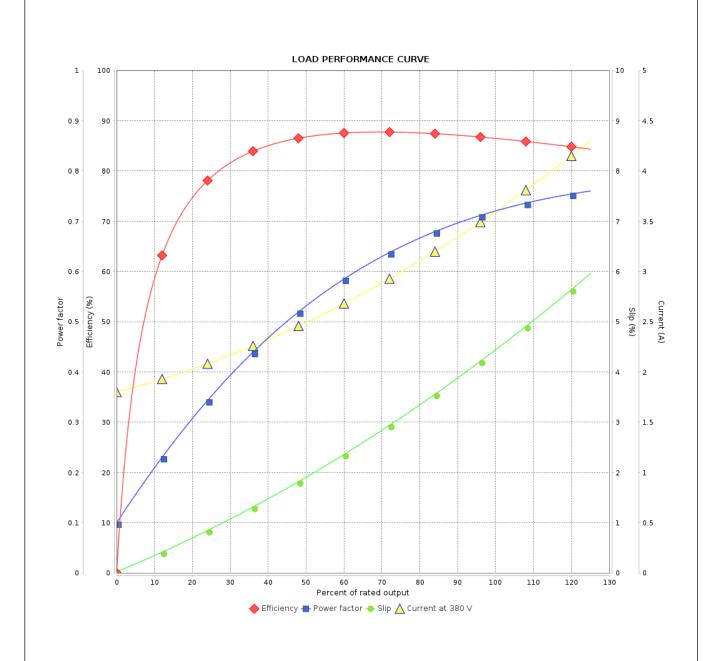


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325198



Performance	: 380 V 50 Hz 6P IE4				
Rated current	: 3.66 A	Moment of inertia (J)		: 0.0224 kgm²	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 1.52 kgfm	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 240 %				
Rated speed	: 955 rpm	Design		: B	
Rev.	Changes Summary	Perfor	rmed	Checked	Date
Performed by					
Checked by				Page	Revision

5/7

28/10/2024

Date

### Three Phase Induction Motor - Squirrel Cage



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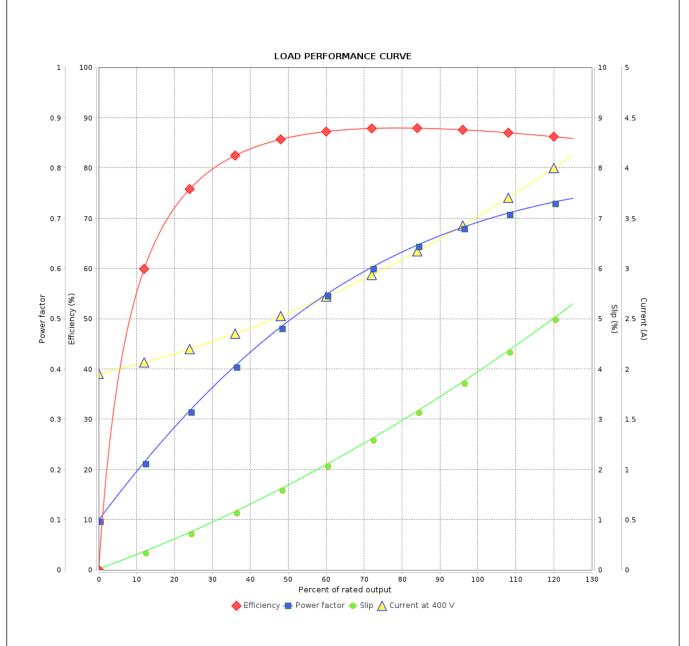
Date

28/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325198



Performance		: 400 V 50 Hz 6P	IE4				
Rated current : 3.59 A Moment LRC : 6.7 Duty cycles and the correct torque : 1.51 kgfm Insulation Service Breakdown torque : 260 % Service Breakdown torque : 270 % Temperature Rated speed : 960 rpm Design		/ cycle lation /ice fac peratu	class ctor	: 0.0224 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2		
Rev.		Changes Sum	nmary		Performed	Checked	Date

Page

6/7

Revision

### Three Phase Induction Motor - Squirrel Cage



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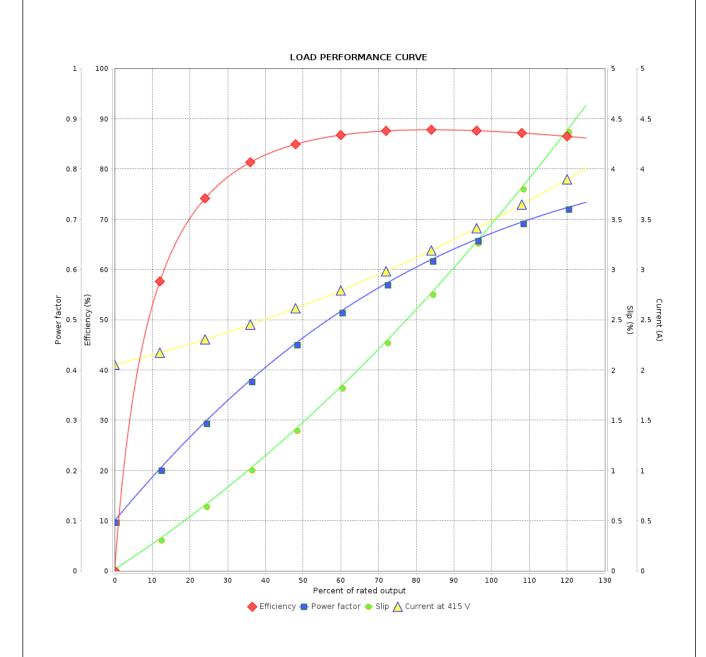
Date

28/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 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 Duty cycle Insulation Service fa Temperat Design	class ector	: 0.0224 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

7/7

Revision