## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Brake Motor NEMA Premium Product code: 14742134 Efficiency Three-Phase Frame : 143/5TC Locked rotor time : 25s (cold) 14s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. : IP55 Protection degree Rated current : 1.68 A : 14.1 A L. R. Amperes Cooling method : IC411 - TEFC **LRC** : 8.4x(Code L) Mounting : F-1 No load current : 0.960 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1755 rpm Noise level<sup>2</sup> : 51.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 0.620 kgfm Approx. weight<sup>3</sup> : 27.6 kg Locked rotor torque : 290 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0060 kgm<sup>2</sup> Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 82.5 85.5 86.5 Max. traction : 48 kgf Max. compression Power Factor 0.54 0.67 0.76 : 75 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 14.7 12.1 12.0 8.7 4.9 3.6 6.1 Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ V'Ring Lip Seal Sealing Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes 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. (4) At 100% of full load.

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Three Phase Induction Motor - Squirrel Cage				<u> </u>		
Customer	:					
Voltage: 525-575 Brake Torque: 1.	5 V 63 kafm	Brake informa	ation			
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Date

## LOAD PERFORMANCE CURVE

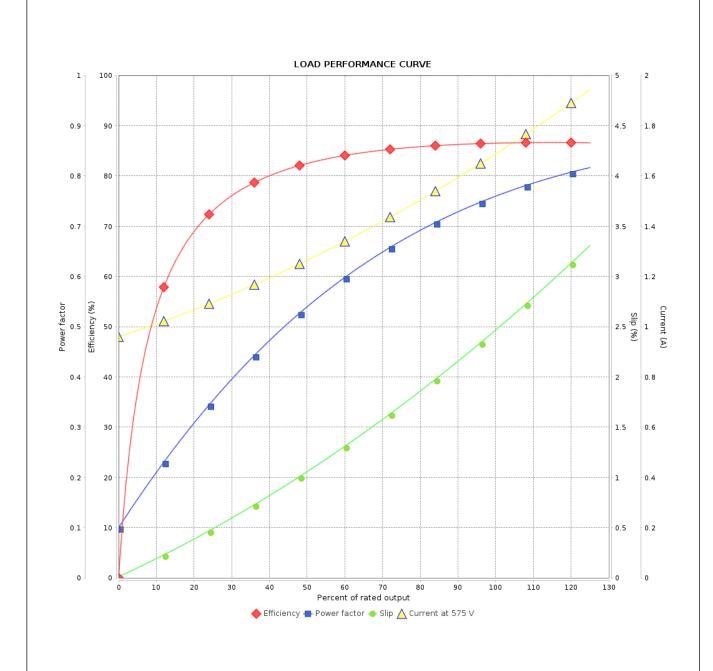
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Product code : 14742134

Efficiency Three-Phase



: 575 V 60 Hz 4P					
: 1.68 A	Moment of inertia (J)		: 0.0060 kgm²		
: 8.4	Duty cycle		: Cont.(S1)		
: 0.620 kgfm	Insulation class		:F `´		
: 290 %	Service factor		: 1.25		
: 350 %	Temperature rise		: 80 K		
: 1755 rpm	Design	Design		: B	
Changes Summary		Performed	Checked	Date	
	: 1.68 A : 8.4 : 0.620 kgfm : 290 % : 350 % : 1755 rpm	: 1.68 A	: 1.68 A  : 8.4  : 0.620 kgfm  : 290 %  : 350 %  : 1755 rpm   Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design	: 1.68 A       Moment of inertia (J)       : 0.0060 kgm         : 8.4       Duty cycle       : Cont.(S1)         : 0.620 kgfm       Insulation class       : F         : 290 %       Service factor       : 1.25         : 350 %       Temperature rise       : 80 K         : 1755 rpm       Design       : B	

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