

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14016376
Frame	:	182/4TC		Locked rotor time	:	41s (cold) 23s (hot)
Output	:	3 HP (2.2 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.
Rated current	:	3.13 A		Protection degree	:	IP55
L. R. Amperes	:	25.3 A		Cooling method	:	IC411 - TEFC
LRC	:	8.1x(Code K)		Mounting	:	F-1
No load current	:	1.60 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1760 rpm		Noise level <sup>2</sup>	:	56.0 dB(A)
Slip	:	2.22 %		Starting method	:	Direct On Line
Rated torque	:	1.24 kgfm		Approx. weight <sup>3</sup>	:	56.1 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	330 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0143 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	87.5	88.5	89.5	Max. traction : 57 kgf		
Power Factor	0.61	0.71	0.79	Max. compression : 113 kgf		
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.0	8.9	8.8	6.1	4.0	3.0	2.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6207 ZZ		6206 ZZ		
Sealing	:	V'Ring		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
Lubricant type	:	Mobil Polyrex EM				
Notes						
This revision replaces and cancel the previous one, which must be eliminated. (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. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Customer : \_\_\_\_\_

### Brake information

Voltage: 525-575 V  
Brake Torque: 6.12 kgfm

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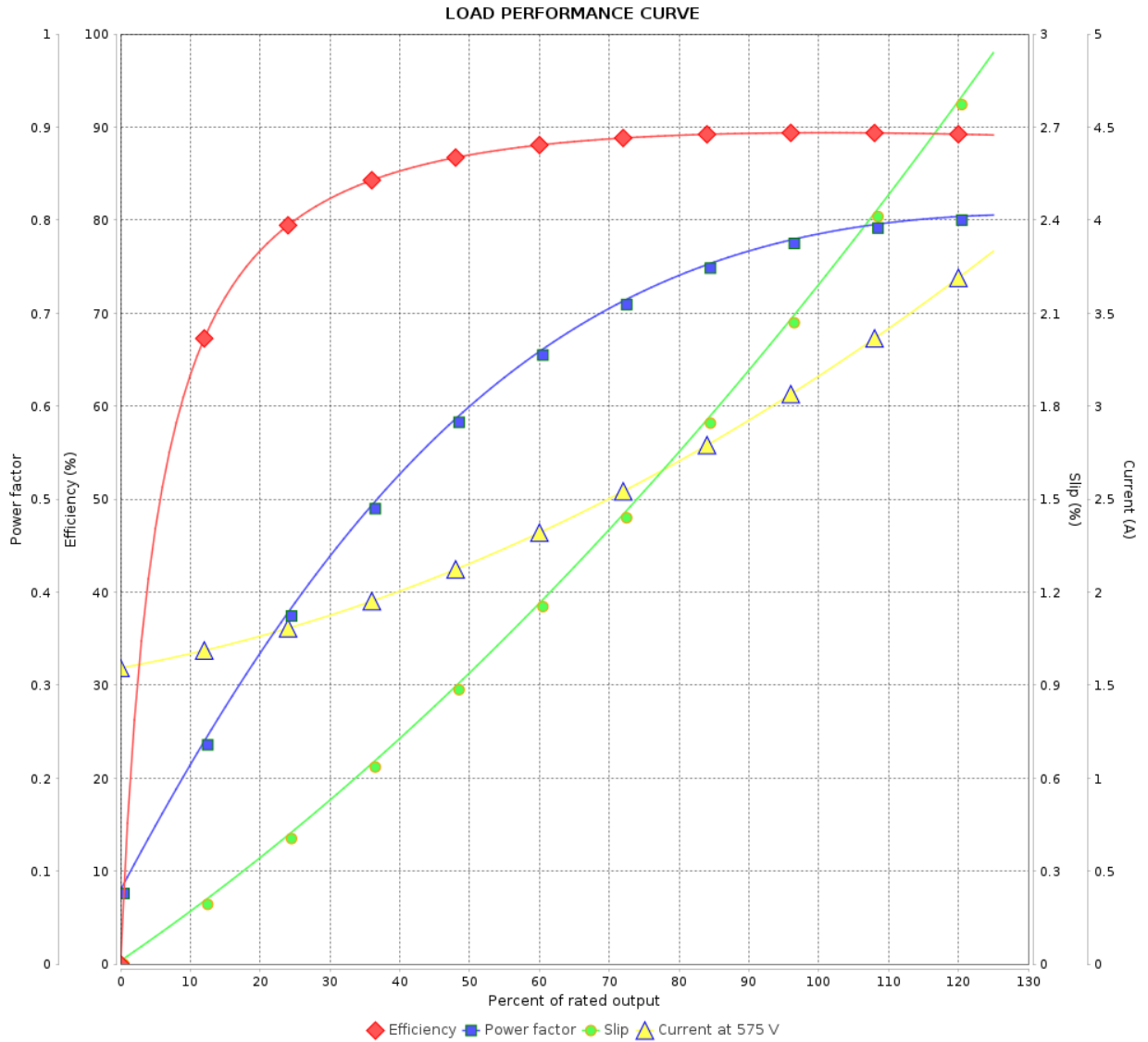
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase      Product code : 14016376



Performance : 575 V 60 Hz 4P

Rated current : 3.13 A  
 LRC : 8.1  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 330 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0143 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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