

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14199316
Frame	:	143/5TC		Locked rotor time	:	18s (cold) 10s (hot)
Output	:	2 HP (1.5 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	:	2.23 A		Protection degree	:	IP55
L. R. Amperes	:	18.5 A		Cooling method	:	IC411 - TEFC
LRC	:	8.3x(Code L)		Mounting	:	F-1
No load current	:	1.30 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1750 rpm		Noise level <sup>2</sup>	:	51.0 dB(A)
Slip	:	2.78 %		Starting method	:	Direct On Line
Rated torque	:	0.829 kgfm		Approx. weight <sup>3</sup>	:	29.1 kg
Locked rotor torque	:	270 %				
Breakdown torque	:	320 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0066 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	85.5	86.5	86.5	Max. traction	:	61 kgf
Power Factor	0.57	0.70	0.78	Max. compression	:	90 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)
15.0	12.8	12.1	8.4	6.0	4.7	3.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6205 ZZ		6204 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: 1.63 kgfm

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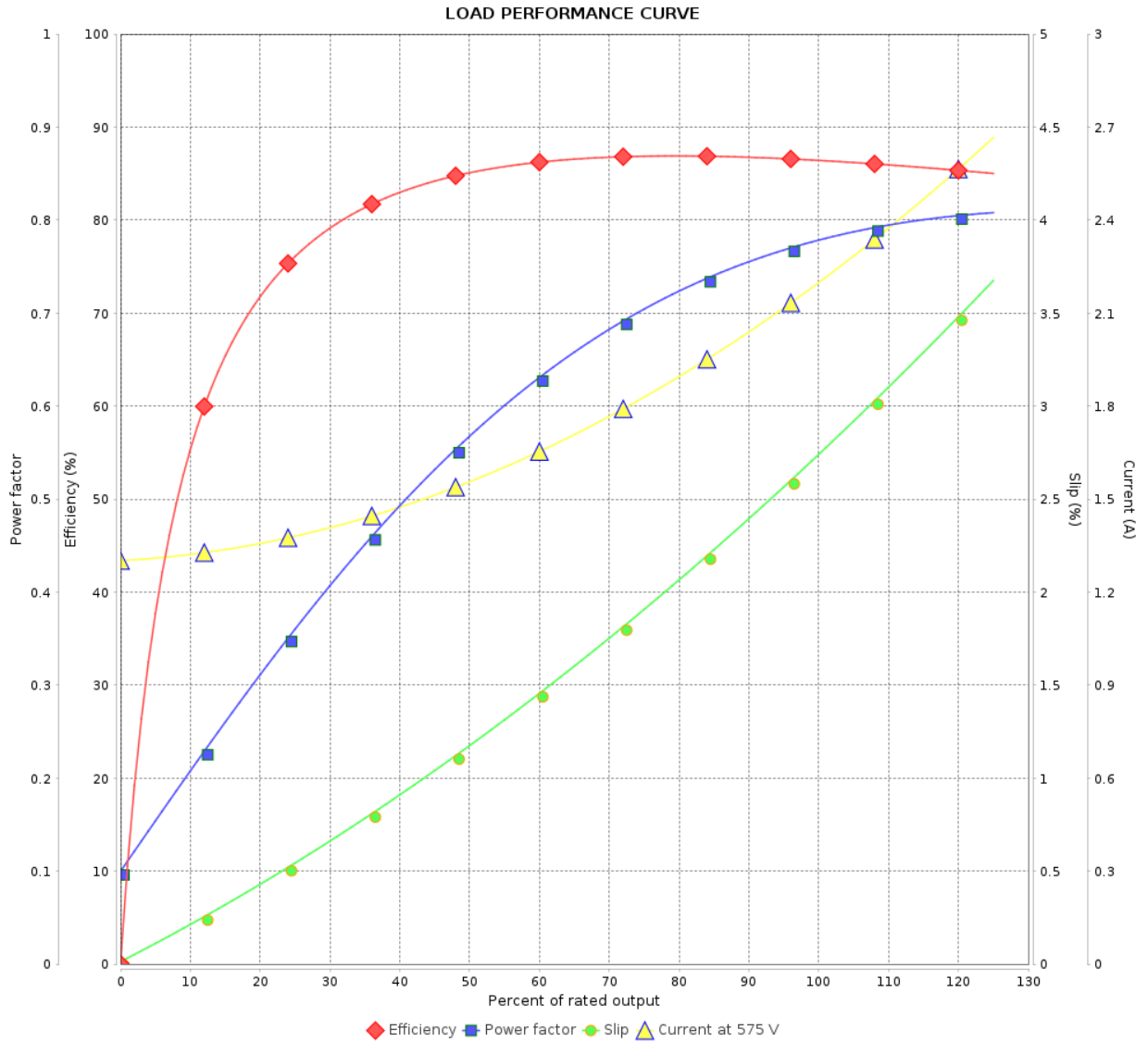
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase      Product code : 14199316



Performance : 575 V 60 Hz 4P

Rated current	: 2.23 A	Moment of inertia (J)	: 0.0066 kgm <sup>2</sup>
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.829 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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