

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14138271						
Frame	: 254/6TC	Locked rotor time	: 54s (cold) 30s (hot)			
Output	: 20 HP (15 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	: 19.3 A	Protection degree	: IP55			
L. R. Amperes	: 133 A	Cooling method	: IC411 - TEFC			
LRC	: 6.9x(Code H)	Mounting	: F-1			
No load current	: 7.68 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1770 rpm	Noise level ²	: 64.0 dB(A)			
Slip	: 1.67 %	Starting method	: Direct On Line			
Rated torque	: 8.20 kgfm	Approx. weight ³	: 179 kg			
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.1305 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	91.7	92.4	93.0	Max. traction : 246 kgf		
Power Factor	0.68	0.79	0.84	Max. compression : 425 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)
7.5	6.4	5.8	3.6	2.5	1.6	1.1
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6309 C3	6209 C3			
Sealing	:	V'Ring	Lip Seal			
Lubrication interval	:	20000 h	20000 h			
Lubricant amount	:	13 g	9 g			
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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Brake information

Voltage: 525-575 V
Brake Torque: 15.3 kgfm

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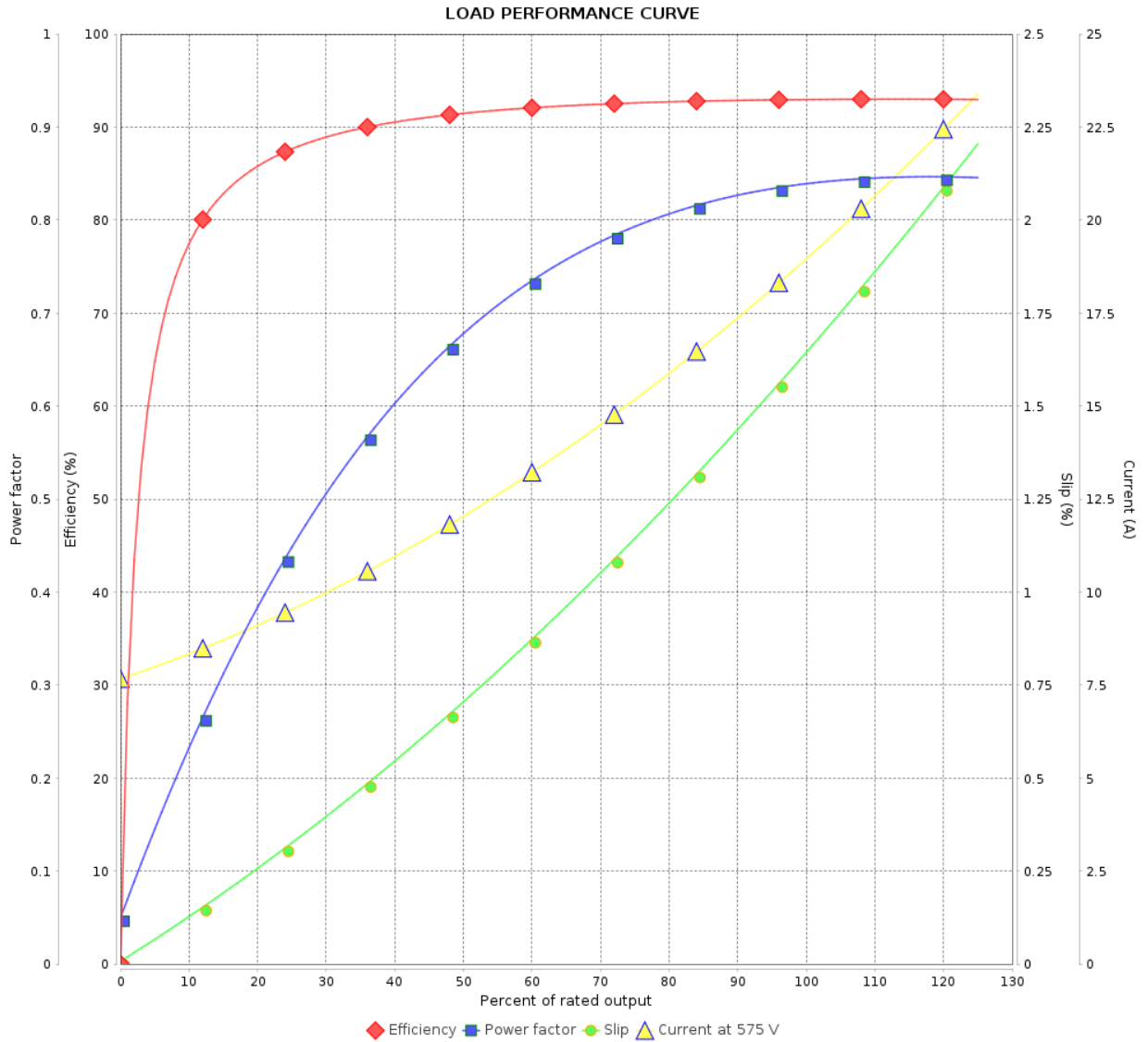
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14138271



Performance : 575 V 60 Hz 4P

Rated current	: 19.3 A	Moment of inertia (J)	: 0.1305 kgm ²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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