

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14742134						
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.			
Rated current	: 1.62 A	Protection degree	: IP55			
L. R. Amperes	: 13.6 A	Cooling method	: IC411 - TEFC			
LRC	: 8.4x(Code L)	Mounting	: F-1			
No load current	: 0.880 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1755 rpm	Noise level ²	: 51.0 dB(A)			
Slip	: 2.50 %	Starting method	: Direct On Line			
Rated torque	: 0.620 kgfm	Approx. weight ³	: 29.2 kg			
Locked rotor torque	: 290 %					
Breakdown torque	: 350 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0060 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	82.5	85.5	86.5	Max. traction	: 47 kgf	
Power Factor	0.60	0.70	0.79	Max. compression	: 76 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)
14.6	12.1	12.2	8.2	5.7	4.3	3.2
			<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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Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

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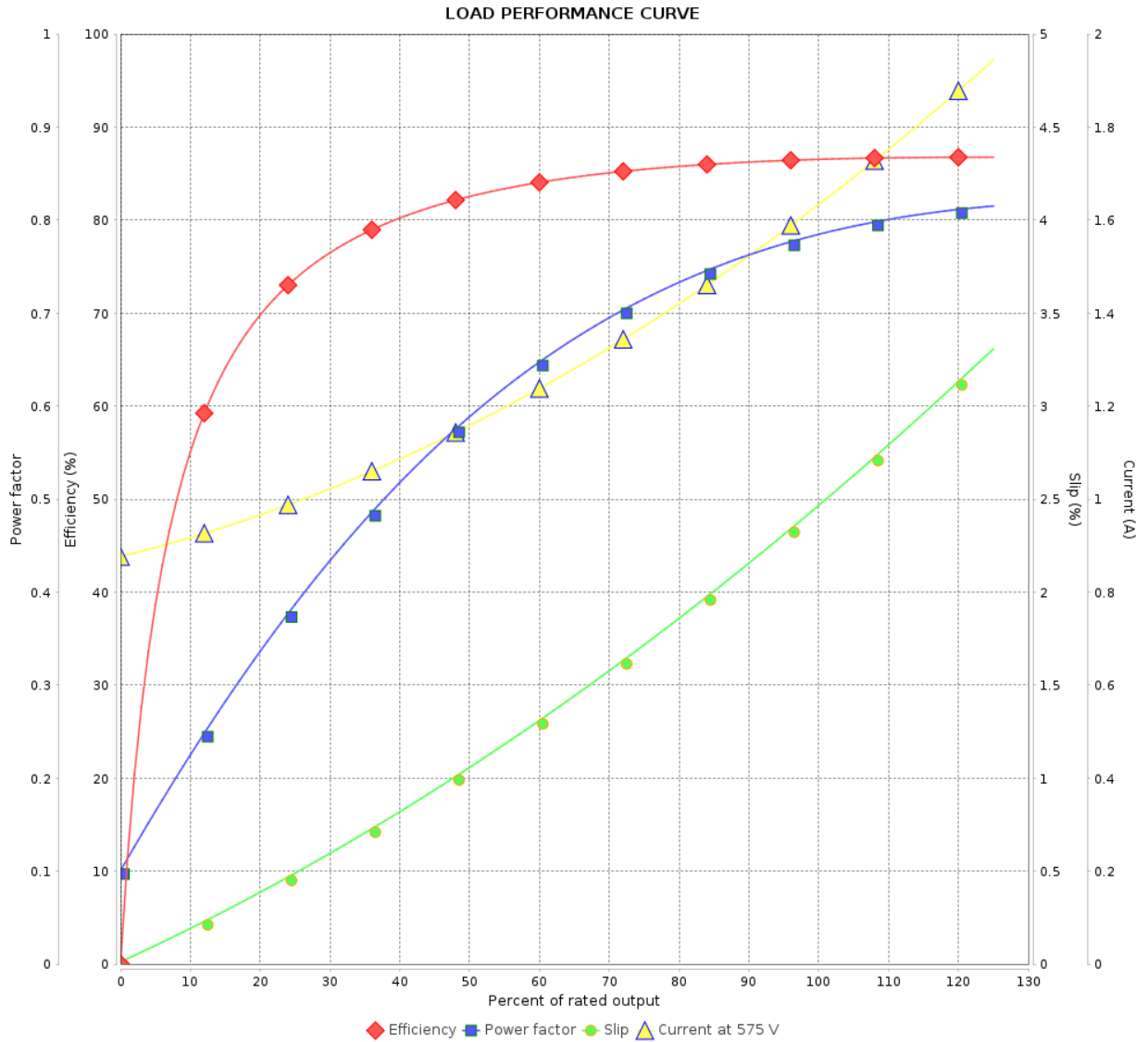
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Product code : 14742134
Three-Phase



Performance : 575 V 60 Hz 4P

Rated current	: 1.62 A	Moment of inertia (J)	: 0.0060 kgm ²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

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