

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase			Product code : 14679747		
Frame	:	: 324/6TC			Locked rotor time	:	: 36s (cold) 20s (hot)
Output	:	: 40 HP (30 kW)			Temperature rise	:	: 80 K
Frequency	:	: 60 Hz			Duty cycle	:	: Cont.(S1)
Rated voltage	:	: 575 V			Ambient temperature	:	: -20°C to +40°C
Poles	:	: 4			Altitude	:	: 1000 m.a.s.l.
Rated current	:	: 37.7 A			Protection degree	:	: IP55
	:	: 6.1x(Code G)			Cooling method	:	: IC411 - TEFC
Rated speed	:	: 1775 rpm			Mounting	:	: F-1
Rated torque	:	: 16.4 kgfm			Rotation ¹	:	: Both (CW and CCW)
Insulation class	:	: F			Noise level ²	:	: 66.0 dB(A)
Service factor	:	: 1.25			Starting method	:	: Direct On Line
Moment of inertia (J)	:	: 0.3861 kgm ²			Approx. weight ³	:	: 308 kg
Design	:	: B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	0.000	93.6	94.1	94.1	Max. traction	:	: 340 kgf
Power Factor	0.00	0.72	0.80	0.85	Max. compression	:	: 648 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)	
6.2	5.4	4.9	2.8	2.0	1.3	0.9	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	: 6312 C3		: 6212 C3			
Sealing	:	: V'Ring		: Lip Seal			
Lubrication interval	:	: 20000 h		: 20000 h			
Lubricant amount	:	: 21 g		: 13 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: 40.8 kgfm

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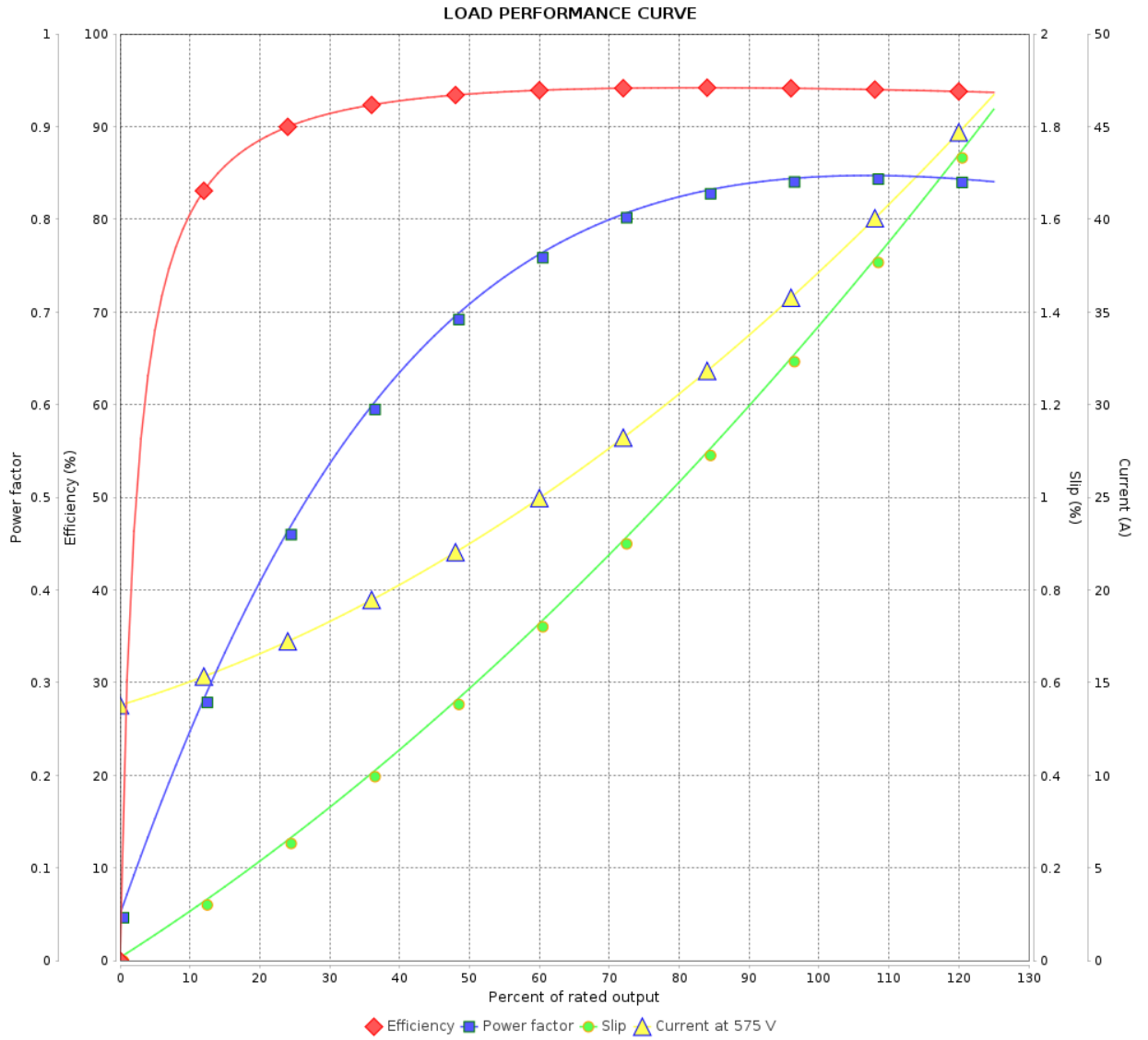
LOAD PERFORMANCE CURVE

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