

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	
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	: 37.7 A			Protection degree	: IP55	
L. R. Amperes	: 230 A			Cooling method	: IC411 - TEFC	
LRC	: 6.1x(Code G)			Mounting	: F-1	
No load current	: 13.6 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1775 rpm			Noise level ²	: 66.0 dB(A)	
Slip	: 1.39 %			Starting method	: Direct On Line	
Rated torque	: 16.4 kgfm			Approx. weight ³	: 308 kg	
Locked rotor torque	: 229 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.3861 kgm ²					
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)
6.1	5.1	5.0	2.8	1.9	1.2	0.8
		<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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	26/04/2024				1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Brake information

Voltage: 525-575 V
Brake Torque: 40.8 kgfm

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	26/04/2024		2 / 3	

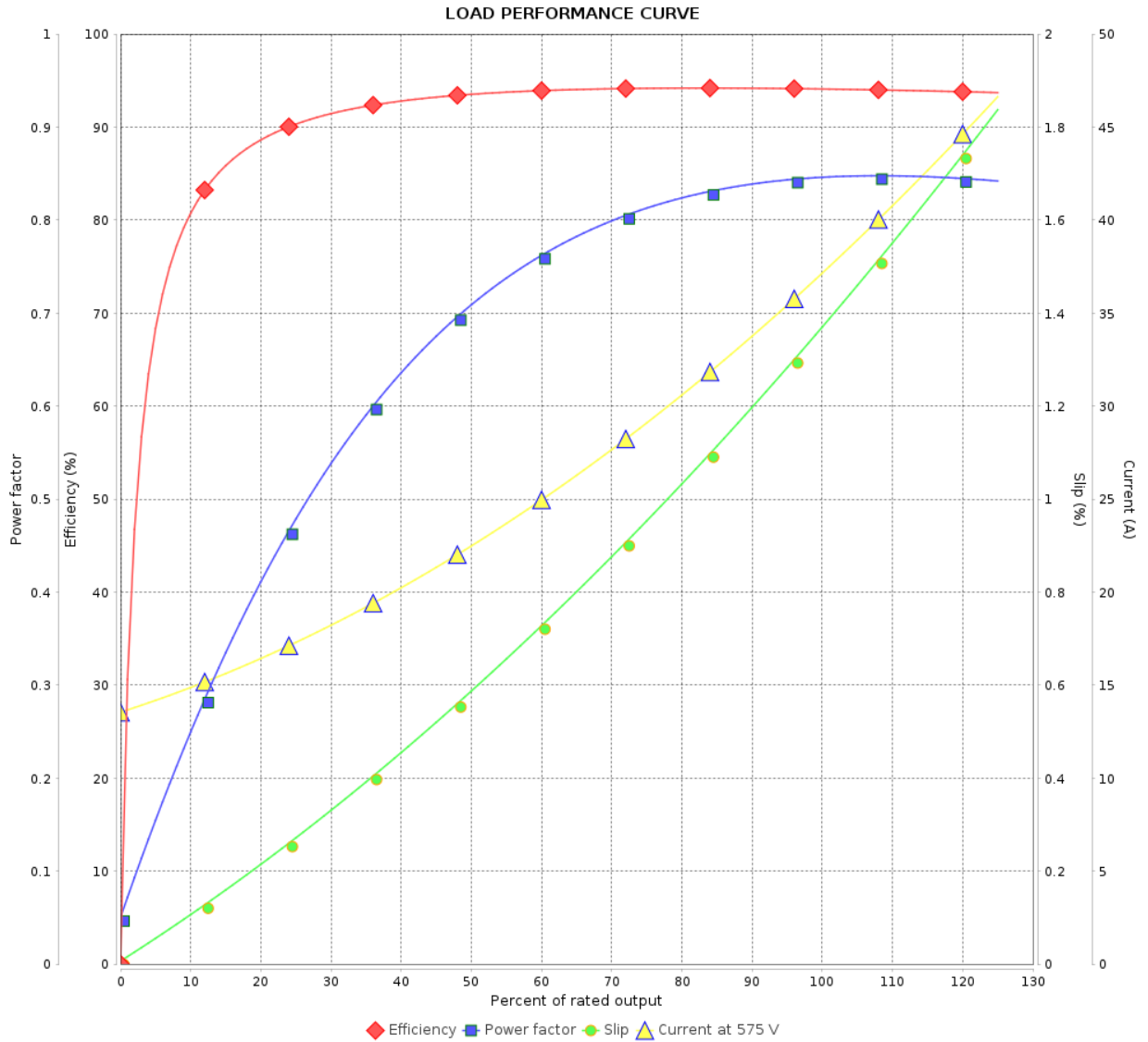
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14679747



Performance : 575 V 60 Hz 4P

Rated current	: 37.7 A	Moment of inertia (J)	: 0.3861 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 3	Revision
Checked by				
Date	26/04/2024			