

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14103840	
Frame	:	143/5T	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 ¹	:	Both (CW and CCW)		
Rated speed	:	1750 rpm	Noise level ²	:	51.0 dB(A)		
Slip	:	2.78 %	Starting method	:	Direct On Line		
Rated torque	:	0.829 kgfm	Approx. weight ³	:	28.0 kg		
Locked rotor torque	:	270 %					
Breakdown torque	:	320 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.0066 kgm ²					
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	: 89 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.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	27/10/2024				1 / 3		

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	27/10/2024		2 / 3	

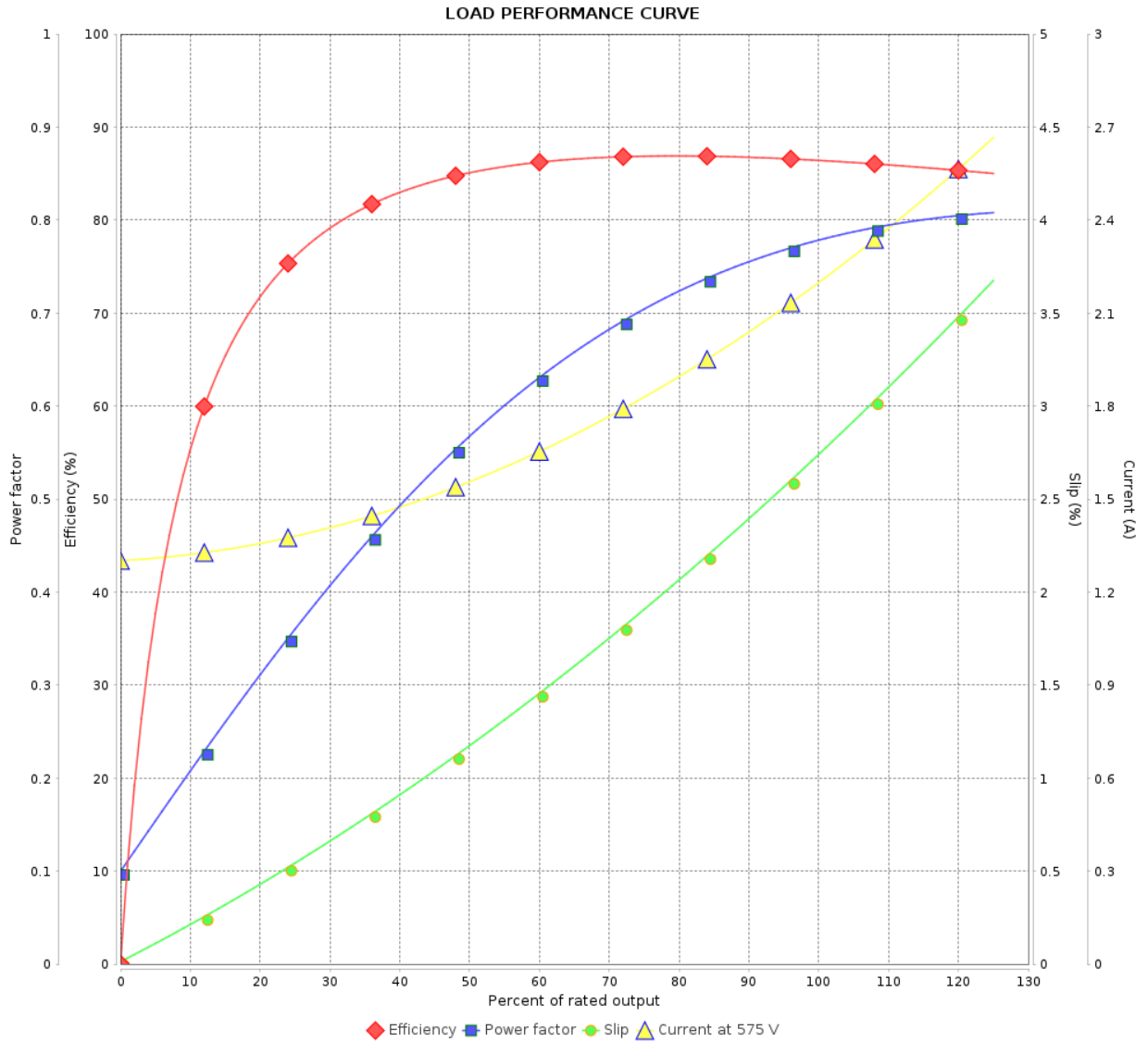
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14103840



Performance : 575 V 60 Hz 4P

Rated current	: 2.23 A	Moment of inertia (J)	: 0.0066 kgm ²
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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 3	Revision
Checked by				
Date	27/10/2024			