

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 11684307	
Frame	:	364/5TS			Locked rotor time	: 25s (cold) 14s (hot)
Output	:	60 HP (45 kW)			Temperature rise	: 80 K
Poles	:	2			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	:	53.6 A			Protection degree	: IP56
L. R. Amperes	:	343 A			Cooling method	: IC411 - TEFC
LRC	:	6.4x(Code G)			Mounting	: F-1
No load current	:	12.0 A			Rotation ¹	: Both (CW and CCW)
Rated speed	:	3550 rpm			Noise level ²	: 79.0 dB(A)
Slip	:	1.39 %			Starting method	: Direct On Line
Rated torque	:	12.3 kgfm			Approx. weight ³	: 388 kg
Locked rotor torque	:	190 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.4485 kgm ²				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	93.0	93.6	Max. traction	: 150 kgf
Power Factor	0.60	0.81	0.88	0.90	Max. compression	: 538 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)
7.4	5.8	5.1	3.7	2.3	1.4	0.9
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	4000 h		4000 h		
Lubricant amount	:	27 g		27 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	13/01/2024				1 / 2	

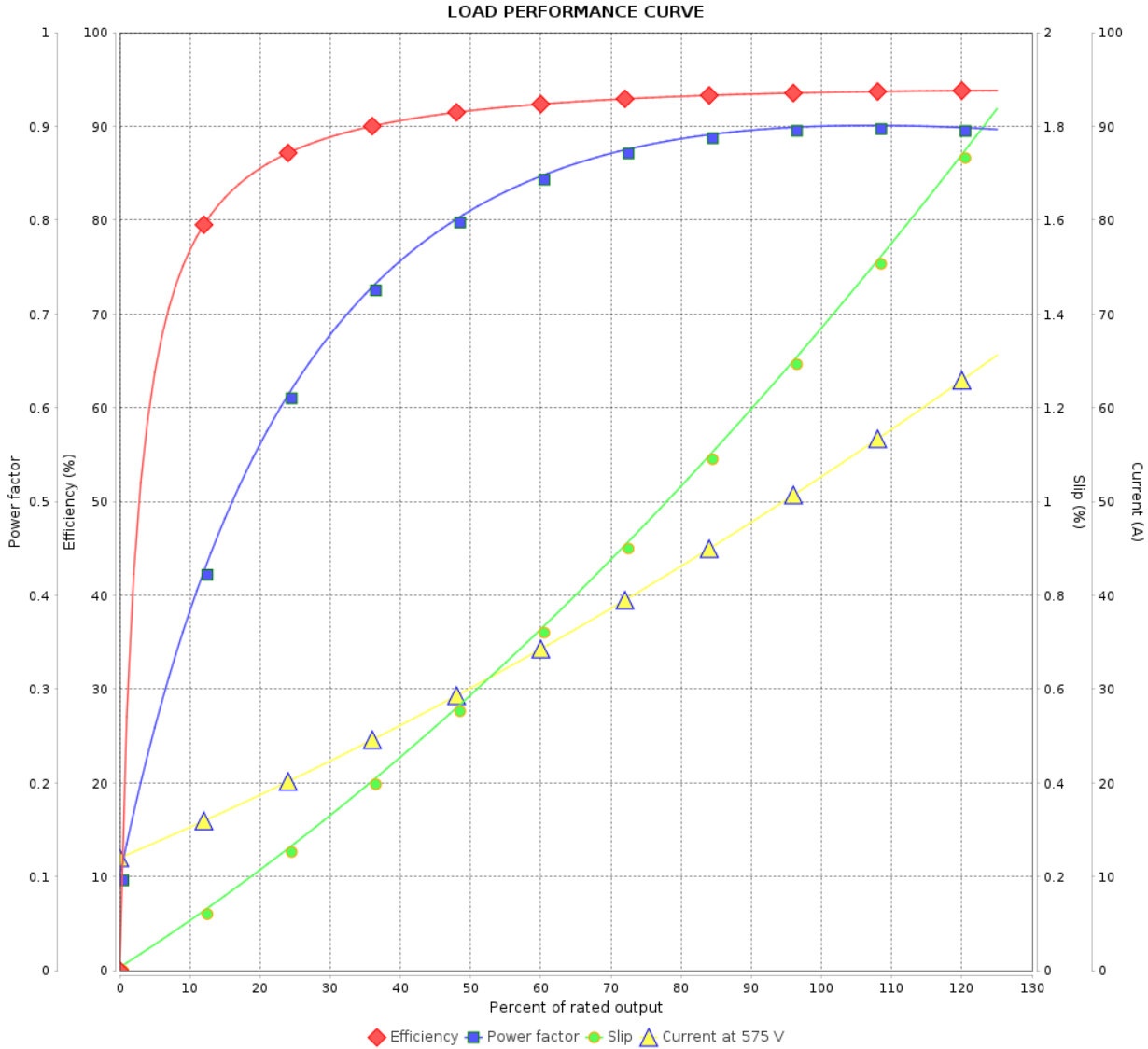
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11684307



Performance : 575 V 60 Hz 2P

Rated current	: 53.6 A	Moment of inertia (J)	: 0.4485 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/01/2024			