

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		13580154
Frame	:	404/5T		Locked rotor time	:	23s (cold) 13s (hot)
Output	:	60 HP (45 kW)		Temperature rise	:	80 K
Poles	:	8		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	:	58.4 A		Protection degree	:	IP55
L. R. Amperes	:	380 A		Cooling method	:	IC411 - TEFC
LRC	:	6.5x(Code H)		Mounting	:	W-8
No load current	:	24.0 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	880 rpm		Noise level ²	:	60.0 dB(A)
Slip	:	2.22 %		Starting method	:	Direct On Line
Rated torque	:	49.5 kgfm		Approx. weight ³	:	528 kg
Locked rotor torque	:	180 %				
Breakdown torque	:	270 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	1.69 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	93.0	93.0	Max. traction	:	1052 kgf
Power Factor	0.68	0.78	0.83	Max. compression	:	1580 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)
7.3	6.4	6.4	3.1	2.3	1.3	1.0
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-316 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	8000 h		10000 h		
Lubricant amount	:	34 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	

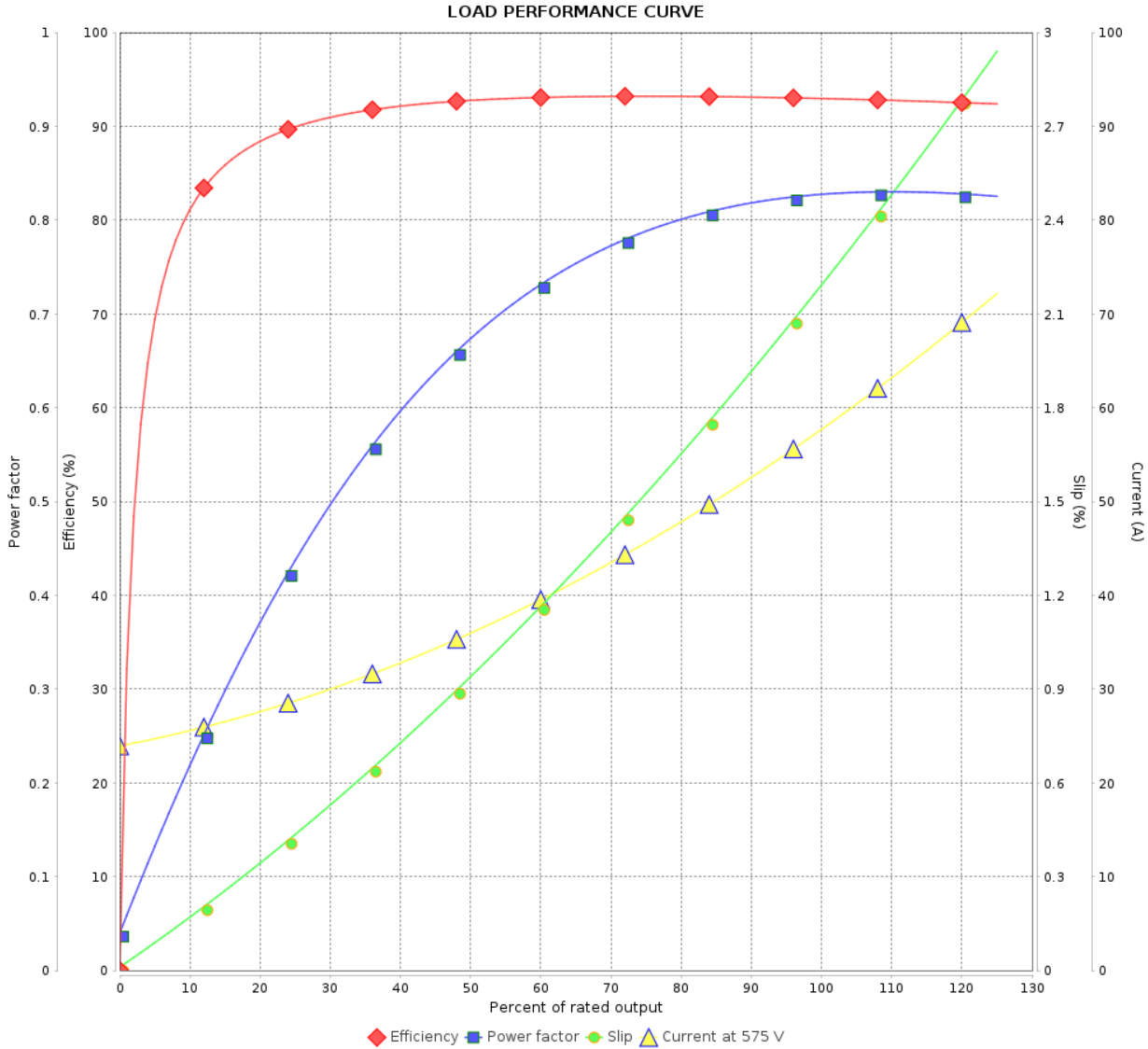
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13580154



Performance : 575 V 60 Hz 8P

Rated current	: 58.4 A	Moment of inertia (J)	: 1.69 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 49.5 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

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