

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		12385110
Frame	:	254/6T			Locked rotor time	:	55s (cold) 31s (hot)
Output	:	15 HP (11 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	:	14.4 A			Protection degree	:	IP56
L. R. Amperes	:	92.2 A			Cooling method	:	IC411 - TEFC
LRC	:	6.4x(Code G)			Mounting	:	F-1
No load current	:	5.60 A			Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1768 rpm			Noise level ²	:	64.0 dB(A)
Slip	:	1.78 %			Starting method	:	Direct On Line
Rated torque	:	6.16 kgfm			Approx. weight ³	:	131 kg
Locked rotor torque	:	240 %					
Breakdown torque	:	260 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.1104 kgm ²					
Design	:	B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	90.2	91.0	91.7	92.4	Max. traction	:	186 kgf
Power Factor	0.44	0.68	0.78	0.83	Max. compression	:	317 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)	
8.1	6.8	6.3	3.9	2.7	1.8	1.2	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6309 C3		6209 C3			
Sealing	:	Inpro/Seal		Inpro/Seal			
Lubrication interval	:	20000 h		20000 h			
Lubricant amount	:	13 g		9 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

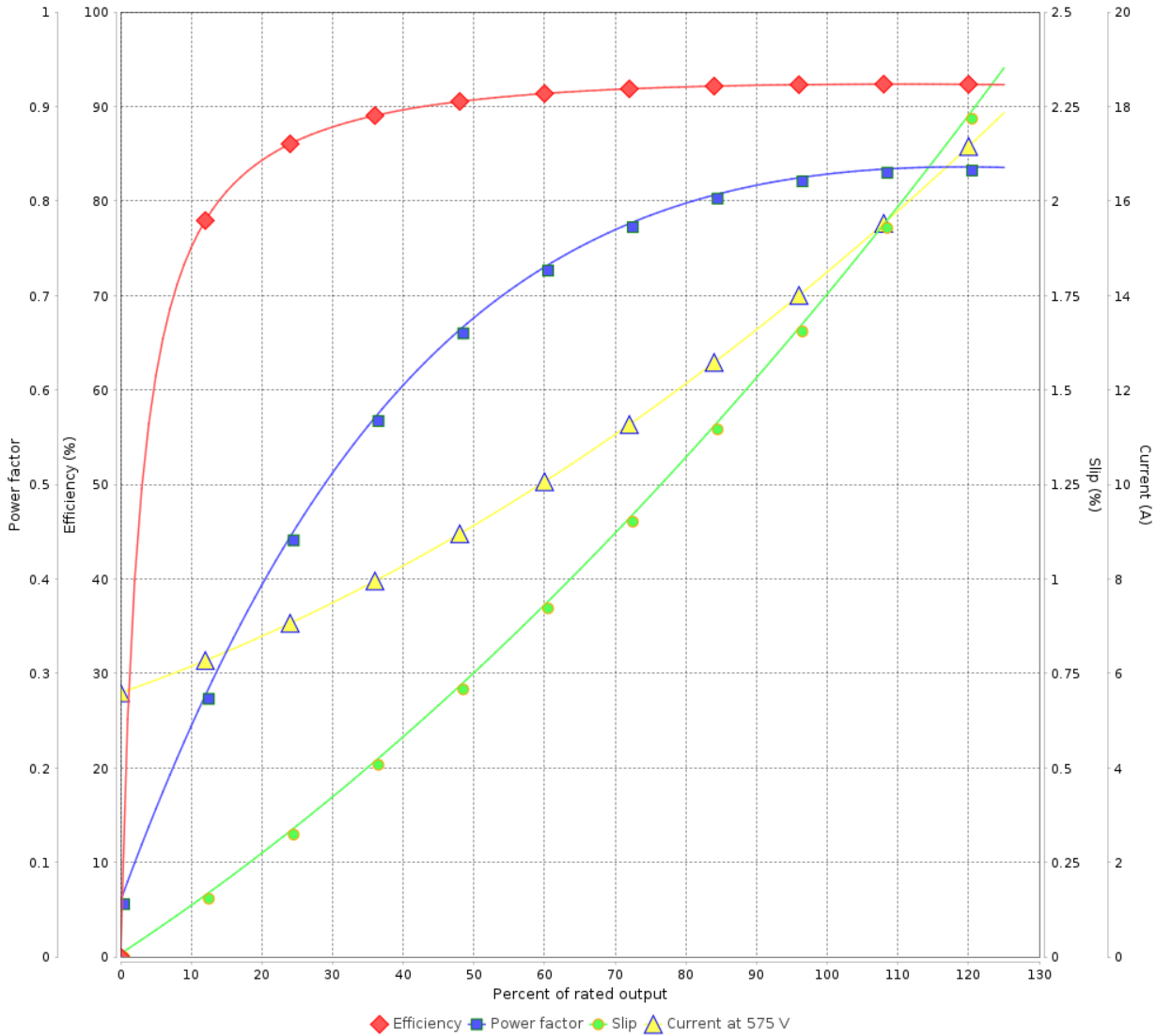
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12385110

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 14.4 A	Moment of inertia (J) : 0.1104 kgm ²
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 6.16 kgfm	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.25
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1768 rpm	Design : B

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