

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: NEMA Premium Efficiency Three-Phase	Product code :	12706984
Frame	: 254/6TC	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 87.5 kg	
Design	: B	Moment of inertia (J)	: 0.0386 kgm ²	
Output [HP]	25			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	23.3			
L. R. Amperes [A]	147			
LRC [A]	6.3x(Code G)			
No load current [A]	9.12			
Rated speed [RPM]	3530			
Slip [%]	1.94			
Rated torque [kgfm]	5.14			
Locked rotor torque [%]	180			
Breakdown torque [%]	290			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	16s (cold) 9s (hot)			
Noise level ²	70.0 dB(A)			
Efficiency (%)	25%	90.8		
	50%	91.0		
	75%	91.7		
	100%	91.7		
Power Factor	25%	0.46		
	50%	0.73		
	75%	0.83		
	100%	0.87		
Bearing type	: Drive end 6309 Z C3	Non drive end 6208 Z C3	Foundation loads	
Sealing	: Without	Without	Max. traction	: 190 kgf
	Bearing Seal	Bearing Seal	Max. compression	: 278 kgf
Lubrication interval	: 20000 h	20000 h		
Lubricant amount	: 13 g	8 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
Performed by				
Checked by			Page	Revision
Date	13/05/2022		1 / 2	

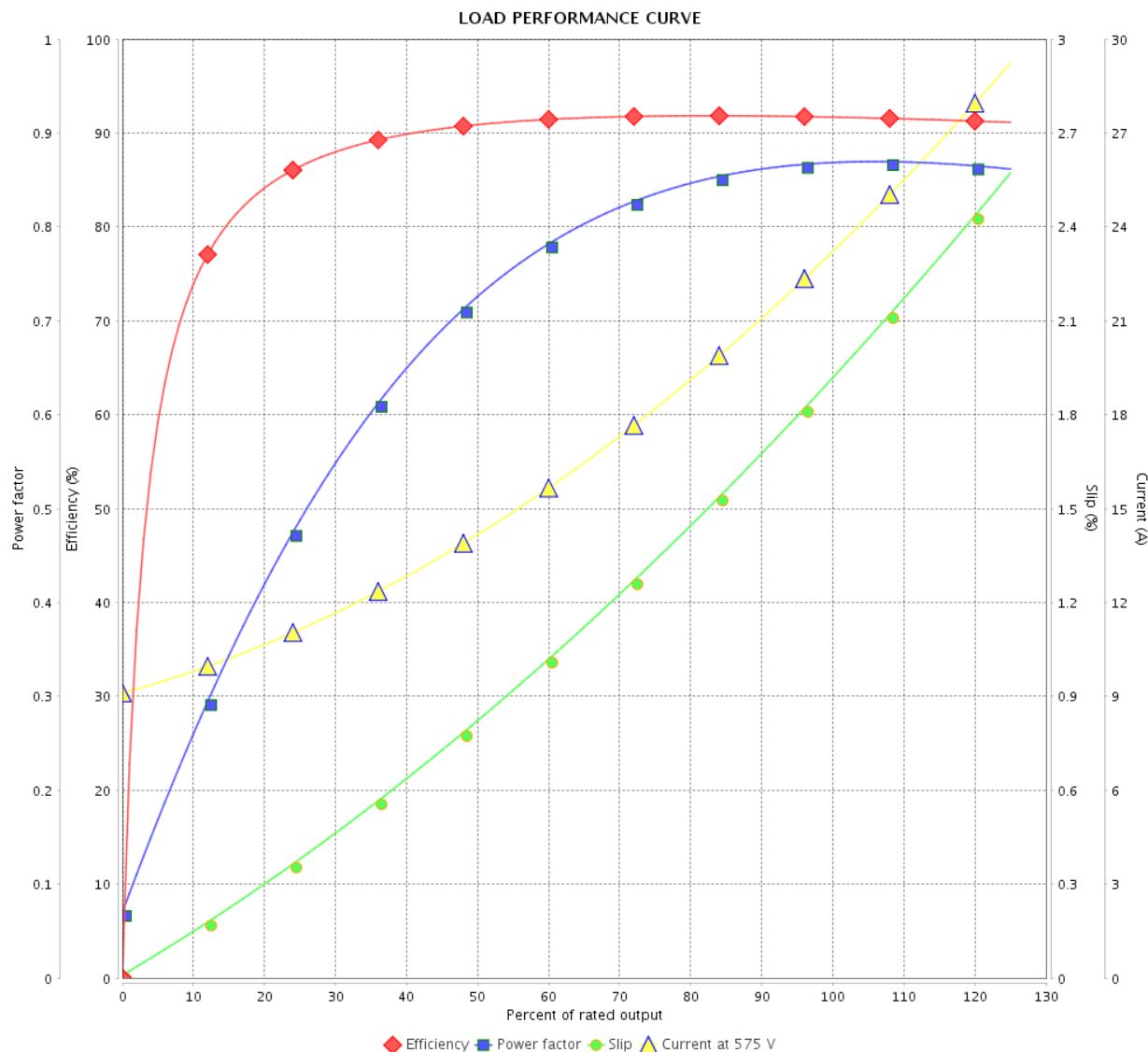
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12706984



Performance : 575 V 60 Hz 2P

Rated current	: 23.3 A	Moment of inertia (J)	: 0.0386 kgm ²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5.14 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2 Revision		
Checked by				
Date	13/05/2022			

