

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: NEMA Premium Efficiency Three-Phase	Product code :	12675401
Frame	: 143/5T	Cooling method	: IC411 - TEFC	
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	: 19.5 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm ²	
Design	: B			
Output [HP]	2			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	2.18			
L. R. Amperes [A]	17.8			
LRC [A]	8.2x(Code K)			
No load current [A]	1.12			
Rated speed [RPM]	1745			
Slip [%]	3.06			
Rated torque [kgfm]	0.832			
Locked rotor torque [%]	270			
Breakdown torque [%]	300			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	27s (cold) 15s (hot)			
Noise level ²	52.0 dB(A)			
Efficiency (%)	25%			
	50%	85.5		
	75%	87.5		
	100%	86.5		
Power Factor	25%			
	50%	0.60		
	75%	0.73		
	100%	0.80		
Bearing type	: Drive end 6205 ZZ Non drive end 6203 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 61 kgf	
Lubrication interval	: - -	Max. compression	: 81 kgf	
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
Performed by			Page	Revision
Checked by				
Date	13/05/2022			
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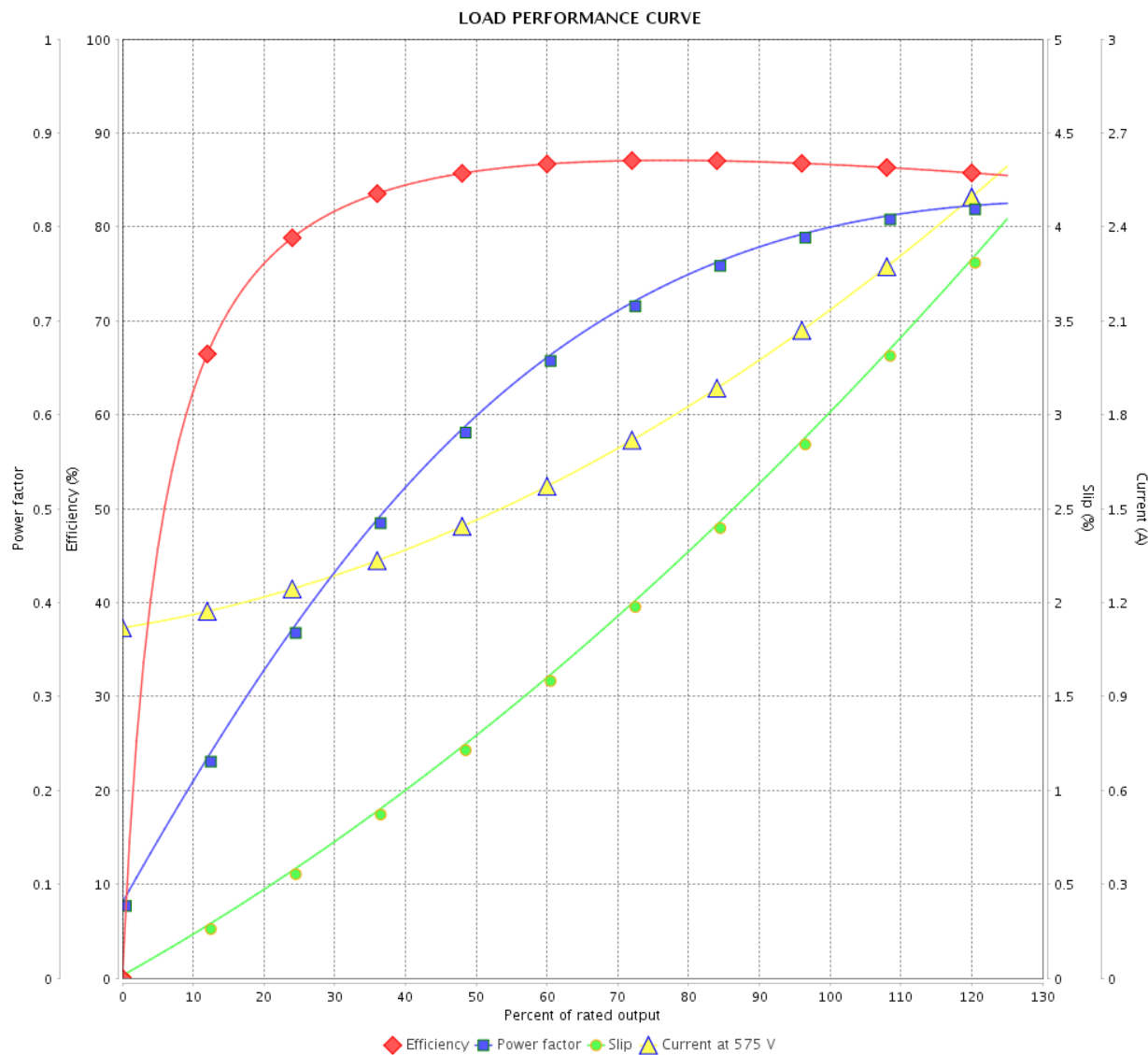
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675401



Performance : 575 V 60 Hz 4P

Rated current	: 2.18 A	Moment of inertia (J)	: 0.0055 kgm ²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.832 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm	Design	: B

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