

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer					
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 12845573		
Frame	: 254/6TC	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	: 116 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.1113 kgm ²		
Design	: B				
Output [HP]	20				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	19.8				
L. R. Amperes [A]	132				
LRC [A]	6.7x(Code H)				
No load current [A]	8.89				
Rated speed [RPM]	1765				
Slip [%]	1.94				
Rated torque [kgfm]	8.22				
Locked rotor torque [%]	270				
Breakdown torque [%]	300				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	28s (cold) 16s (hot)				
Noise level ²	68.0 dB(A)				
Efficiency (%)	25%	91.0			
	50%	91.7			
	75%	92.4			
	100%	93.0			
Power Factor	25%	0.40			
	50%	0.66			
	75%	0.77			
	100%	0.82			
Bearing type	: <u>Drive end</u> 6309 Z C3	<u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 330 kgf	
Lubrication interval	: 20000 h	20000 h	Max. compression	: 446 kgf	
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.		
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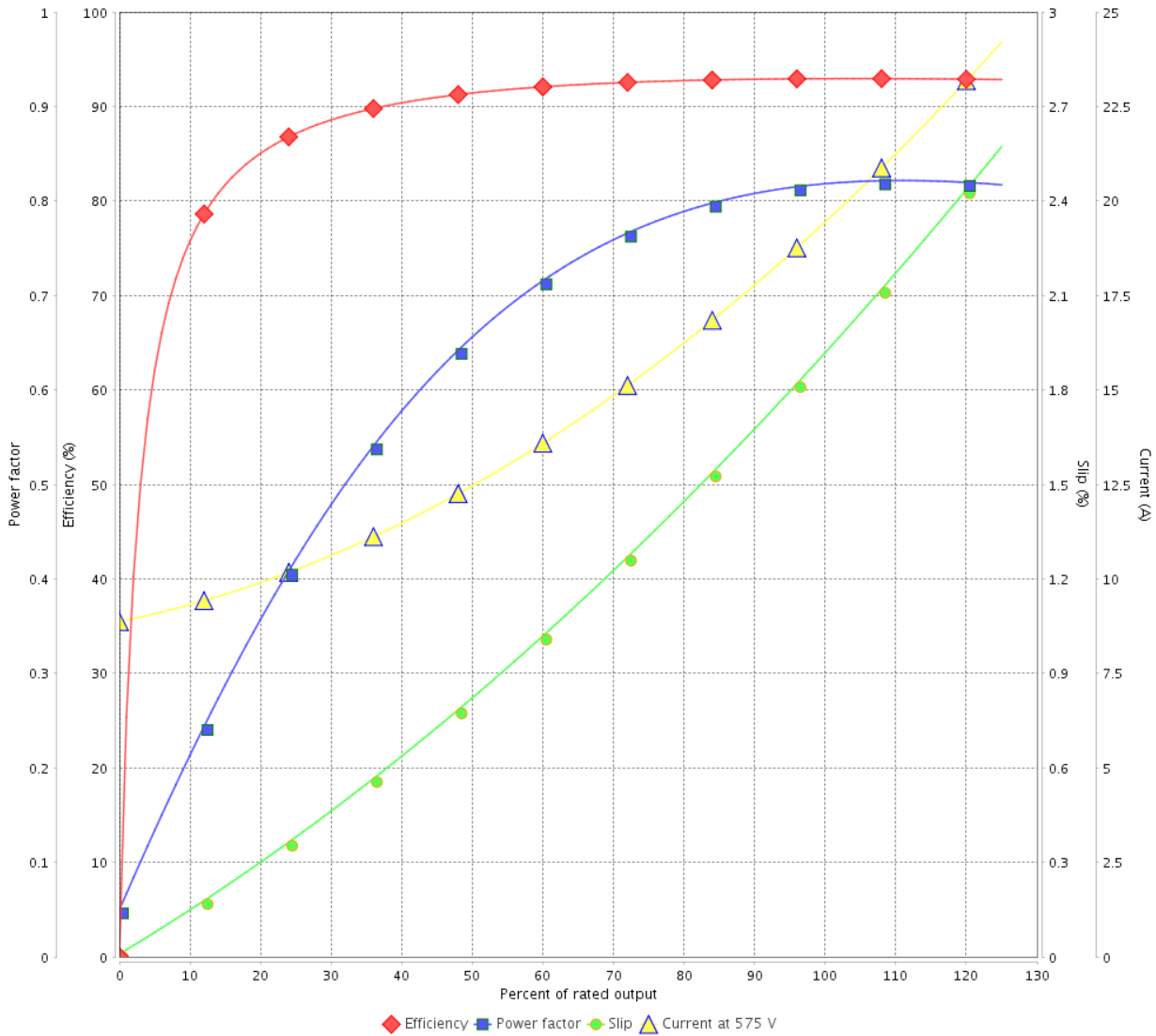
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Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12845573

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Performance : 575 V 60 Hz 4P

Rated current	: 19.8 A	Moment of inertia (J)	: 0.1113 kgm ²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 8.22 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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