

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11090243

Frame	: E143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.00/2.50 A	Protection degree	: IP21
L. R. Amperes	: 47.5/23.8 A	Cooling method	: IC01 - ODP
LRC	: 9.5x(Code L)	Mounting	: F-1
No load current	: 1.96/0.980 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3430 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 0.423 kgfm	Approx. weight ³	: 18.3 kg
Locked rotor torque	: 450 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0025 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	85.5	86.5	Max. traction	: 33 kgf
Power Factor	0.70	0.81	0.87	Max. compression	: 51 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6205 ZZ	6204 ZZ
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	: Mobil Polyrex EM	

Notes
USABLE @208V 5.50A SF 1.00 SFA 5.50A

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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Date	19/10/2024		1 / 2	

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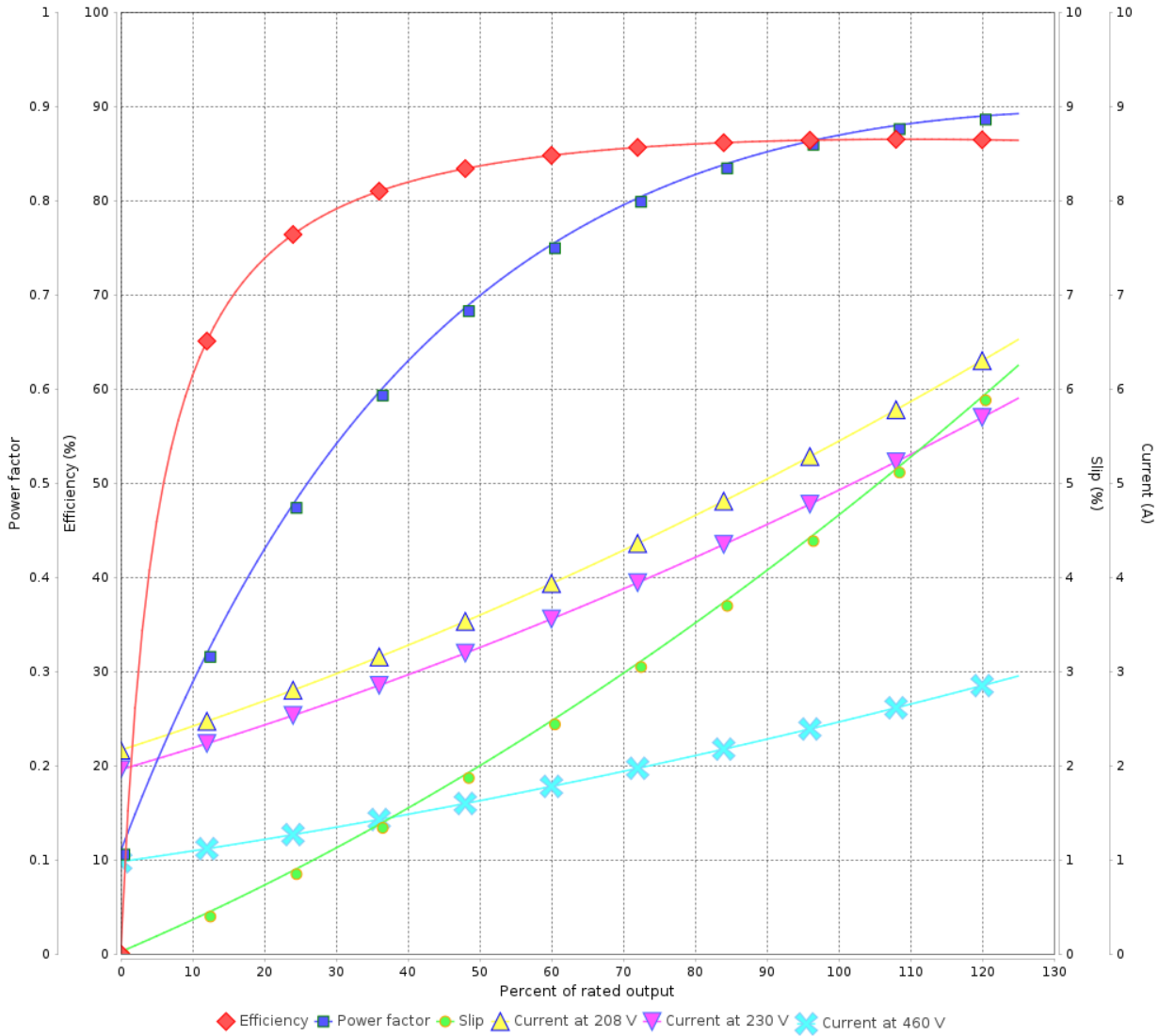
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11090243

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 5.00/2.50 A
 LRC : 9.5
 Rated torque : 0.423 kgfm
 Locked rotor torque : 450 %
 Breakdown torque : 350 %
 Rated speed : 3430 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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