DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805247

Frame : 56HC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 18.4 kg

Protection degree : IP55 Moment of inertia (.I) : 0.0054 kgm²

Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 18.4 kg
Protection degree		: IP55	Moment of inertia (J)	: 0.0054 kgm²
Design		: A		-
Output [HP]		3	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.52/3.76	6.12/3.06	5.66/3.00
L. R. Amperes [A]		63.9/32.0	60.0/30.0	60.0/31.8
LRC [A]		8.5x(Code K)	9.8x(Code L)	10.6x(Code M)
No load current [A	.]	2.80/1.40	2.72/1.36	2.87/1.52
Rated speed [RPM]		3480	2905	2915
Slip [%]		3.33	3.17	2.83
Rated torque [kgfm]		0.626	0.500	0.498
Locked rotor torque [%]		270	330	370
Breakdown torque [%]		280	370	420
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		10s (cold) 6s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	79.7	80.3	78.7
Efficiency (%)	50%	80.0	80.9	79.8
Efficiency (%)	75%	81.5	83.5	83.0
	100%	81.5	83.7	83.8
Power Factor	25%	0.50	0.45	0.41
	50%	0.76	0.73	0.68
	75%	0.86	0.83	0.80
	100%	0.90	0.89	0.86

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 58 kgf Sealing : V'Ring Without Max. compression : 76 kgf

Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 8.32A SF 1.00 SFA 8.32A

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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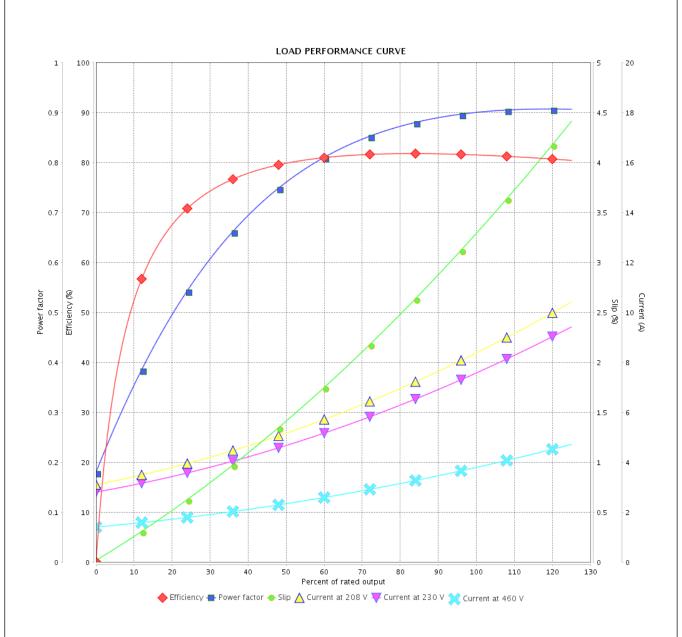
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Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : Standard Efficiency Three-Phase Product code : 12805247



Performance : 230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.52/3.76 A : 8.5 : 0.626 kgfm : 270 % : 280 % : 3480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0054 kgm² : Cont.(S1) : F : : 80 K : A	
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Date

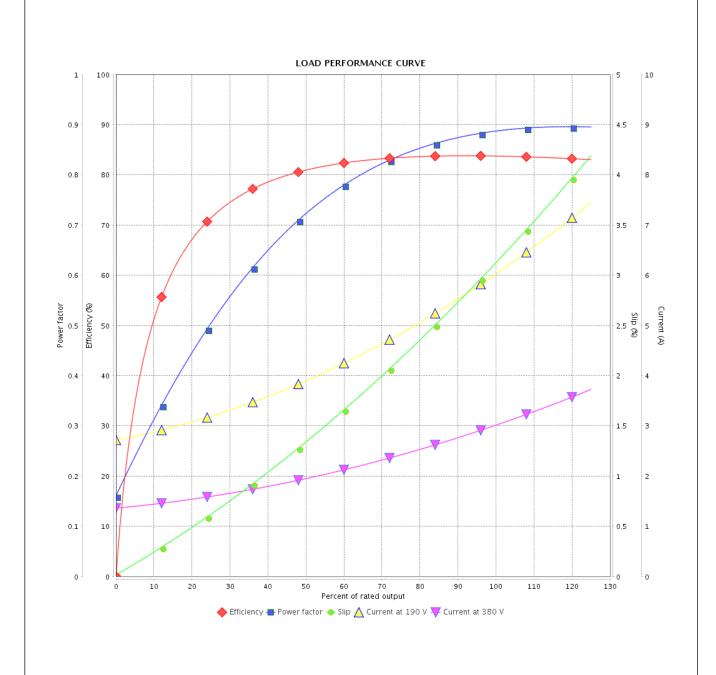
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805247



Rated current : 6.12/3.06 A	Performance	: 190/380 V 50 Hz 2P				
Rated torque : 0.500 kgfm Insulation class : F Locked rotor torque : 330 % Service factor : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2905 rpm Design : A Rev. Changes Summary Performed Checked Date	Rated current : 6.12/3.06 A		Moment of inertia (J)		: 0.0054 kgm²	
Locked rotor torque : 330 % Service factor : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2905 rpm Design : A Rev. Changes Summary Performed Checked Date	LRC : 9.8		Duty cycle	!	: Cont.(S1)	
Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2905 rpm Design : A Rev. Changes Summary Performed Checked Date	Rated torque	: 0.500 kgfm	Insulation class		: F	
Rated speed : 2905 rpm Design : A Rev. Changes Summary Performed Checked Date	Locked rotor torque	: 330 %	Service factor		: 1.15	
Rev. Changes Summary Performed Checked Date	Breakdown torque	: 370 %	Temperature rise		: 80 K	
	Rated speed : 2905 rpm		Design		: A	
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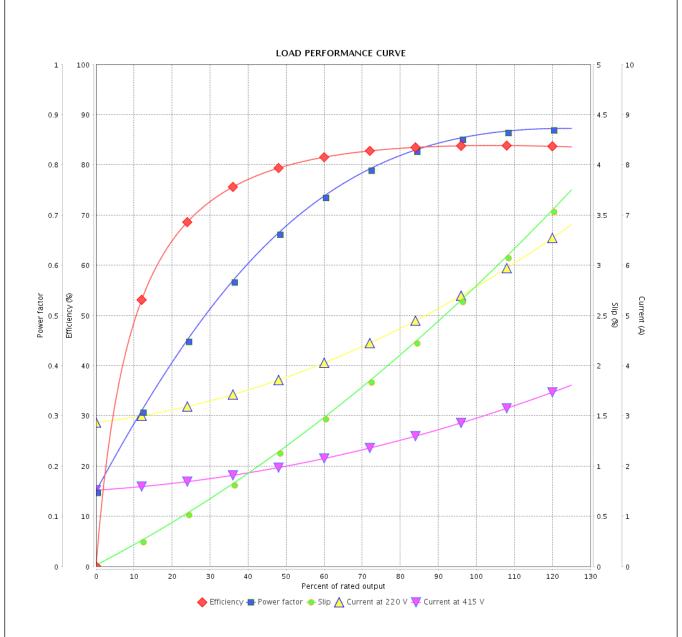
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Product line : Standard Efficiency Three-Phase Product code : 12805247



Performance		: 220/415 V 50 Hz	2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 5.66/3.00 A : 10.6 : 0.498 kgfm : 370 % : 420 % : 2915 rpm	Duty cyc Insulation Service f	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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