DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780

Frame : 56C Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Ilisulation class		. F Wounting		. Г-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	: 12.5 kg		
Protection degree		: IP55	Moment of inertia (J)	: 0.0036 kgm²		
Output [HP]		0.75	0.75	0.75		
Poles		4	4	4		
Frequency [Hz]		60	50	50		
Rated voltage [V]		208-230/460	190-220/380	415		
Rated current [A]		2.63-2.38/1.19	2.64-2.28/1.32	1.31		
L. R. Amperes [A]		20.3-18.3/9.16	16.1-13.9/8.05	8.91		
LRC [A]		7.7x(Code L)	6.1x(Code H)	6.8x(Code K)		
No load current [A]		1.42-1.64/0.822	1.62-1.40/0.809	0.950		
Rated speed [RPN	1]	1760	1450	1460		
Slip [%]		2.22	3.33	2.67		
Rated torque [kgfn	n]	0.309	0.375	0.373		
Locked rotor torque [%]		240	180	220		
Breakdown torque	[%]	360	250	310		
Service factor			1.15	1.15		
Temperature rise		80 K	80 K	80 K		
Locked rotor time		28s (cold) 16s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)		
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
	25%					
Efficiency (9/)	50%	75.5	77.9	75.1		
Efficiency (%)	75%	80.0	80.3	79.2		
	100%	81.5	80.0	80.2		
	25%					
Dower Foster	50%	0.49	0.56	0.49		
Power Factor	75%	0.62	0.70	0.63		
	100%	0.71	0.79	0.73		

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 31 kgf Sealing : V'Ring Without Max. compression : 43 kgf

Bearing Seal

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

Notes

USABLE @208V SF 1.00

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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Rev.	Changes Summary		•	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	17/05/2022				1/4	

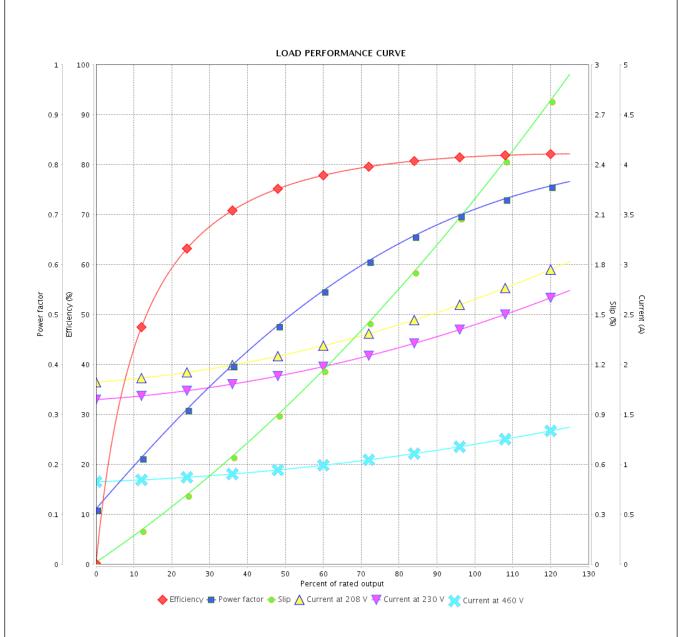
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 15311780



Performance : 208-230/460 V 60 Hz 4P : 2.63-2.38/1.19 A : 0.0036 kgm² Rated current Moment of inertia (J) **LRC** : 7.7 : Cont.(S1) Duty cycle

: 0.309 kgfm Rated torque Insulation class : F Locked rotor torque : 240 % Service factor : 80 K

Breakdown torque : 360 % Temperature rise Rated speed : 1760 rpm

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	17/05/2022				2/4	

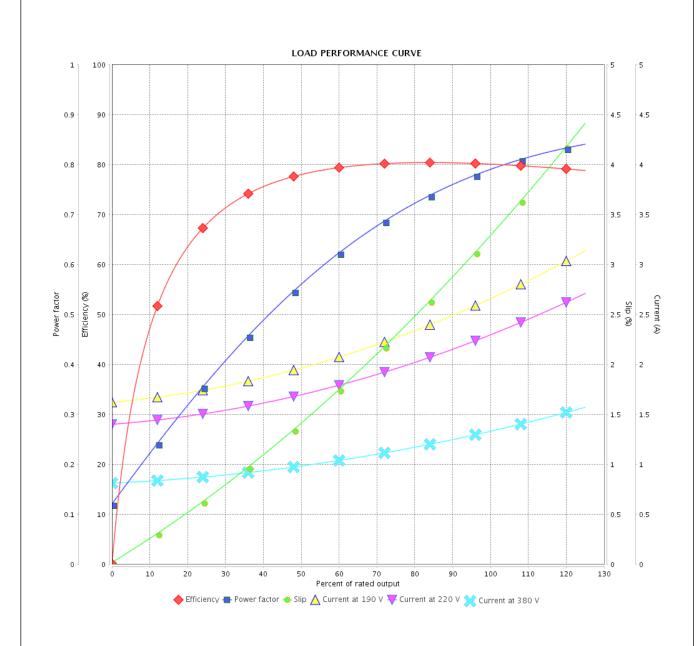
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 190-220/380 V 50 Hz 4P Rated current : 2.64-2.28/1.32 A Moment of inertia (J) : 0.0036 kgm² **LRC** Duty cycle : 6.1 : Cont.(S1) : 0.375 kgfm Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm

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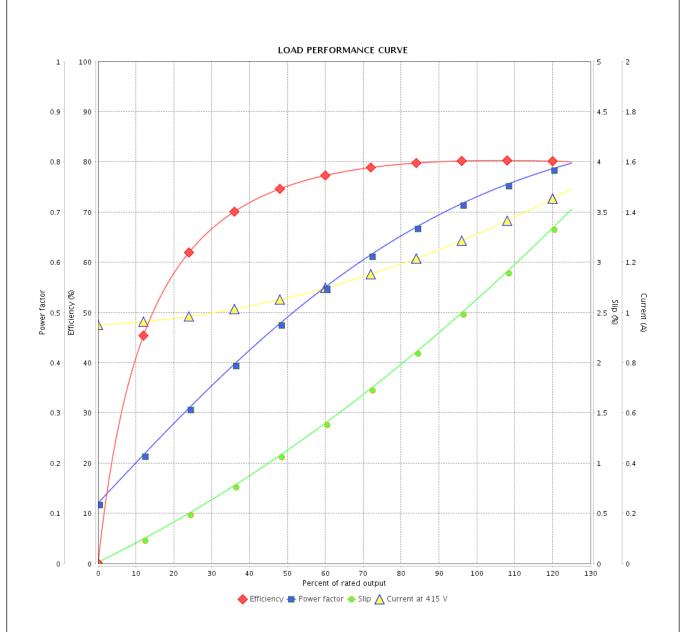
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 415 V 50 Hz 4P : 1.31 A : 0.0036 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.8 : 0.373 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1460 rpm

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