### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line		: Three-Phase	Product code :	13737454	
Frame		: 56	Cooling method	: IC01 - ODP	
Insulation class		: F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 12.3 kg	
Design		: A	Moment of inertia (J)	: 0.0036 kgm²	
Output [HP]		1	1	1	
Poles		4	4	4	
requency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		3.14/1.57	3.54/1.77	3.34/1.77	
R. Amperes [A]		23.9/11.9	20.9/10.4	22.0/11.7	
RC [A]		7.6x(Code L)	5.9x(Code H)	6.6x(Code K)	
No load current [A]		2.20/1.10	2.09/1.05	2.42/1.28	
Rated speed [RPM]		1760	1440	1450	
Slip [%]		2.22	4.00	3.33	
Rated torque [kgfm		0.412	0.504	0.501	
ocked rotor torque		280	180	229	
Breakdown torque [%]		320	250	300	
Service factor			1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		30s (cold) 17s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
25%					
Efficiency (%)	50%	78.5	79.6	76.1	
Efficiency (70)	75%	82.5	81.4	79.9	
	100%	83.5	80.6	80.6	
	25%				
Power Factor	50%	0.49	0.58	0.49	
	75%	0.63	0.72	0.64	
	100%	0.72	0.80	0.73	
	<u> </u>	Drive end Non drive	end Foundation loads		
Bearing type		: 6204 ZZ 6202 Z		: 42 kgf	
Sealing		: Without Withou		: 54 kgf	
···· <b>9</b>		Bearing Seal Bearing S		3	
Lubrication interv	al	:			
Lubricant amount		:			
Lubricant type		: Mobil Polyrex EM			

Notes

USABLE @208V 3.47A SF 1.00 SFA 3.47A

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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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



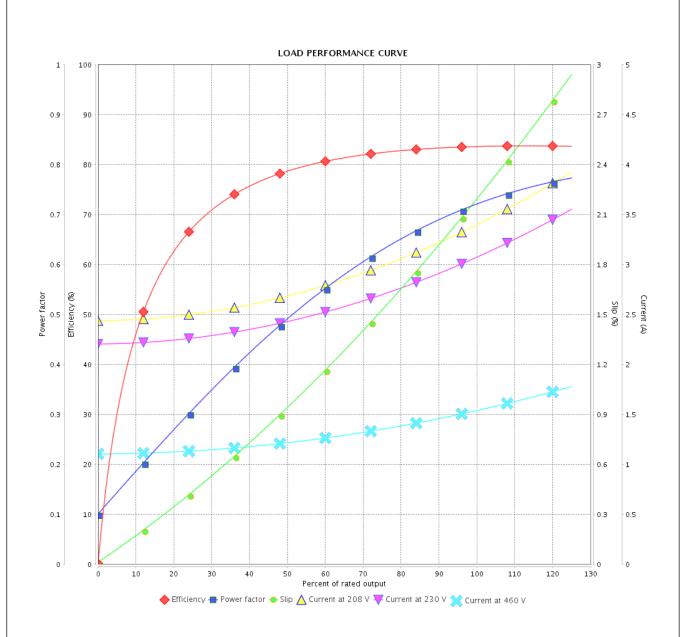
Customer :

Checked by

Date

17/05/2022

Product line : Three-Phase Product code : 13737454



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.14/1.57 A : 7.6 : 0.412 kgfm : 280 % : 320 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0036 kgm² : Cont.(S1) : F : : 80 K : A	
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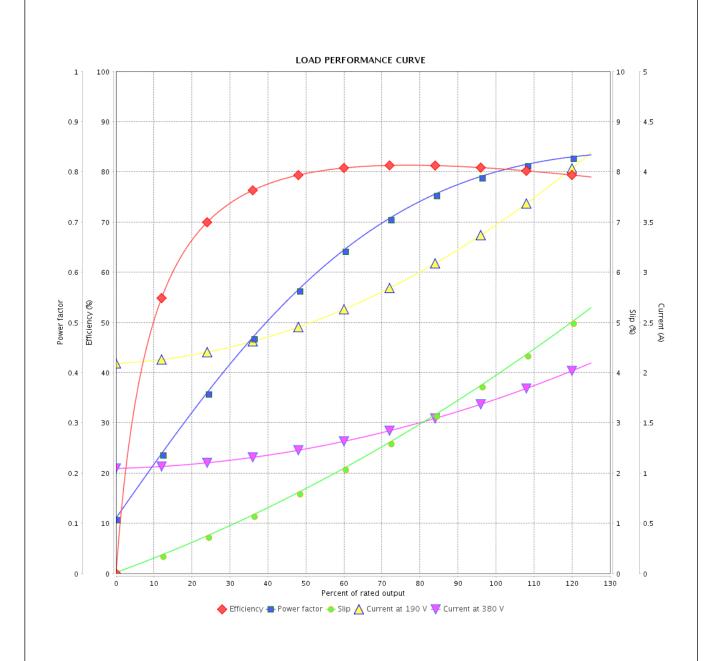
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase Product code : 13737454



Performance	: 19	90/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 5. : 0. ue : 18 e : 29	54/1.77 A 9 504 kgfm 80 % 50 % 440 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0036 kgm² : Cont.(S1) : F : 1.15 : 80 K : A	
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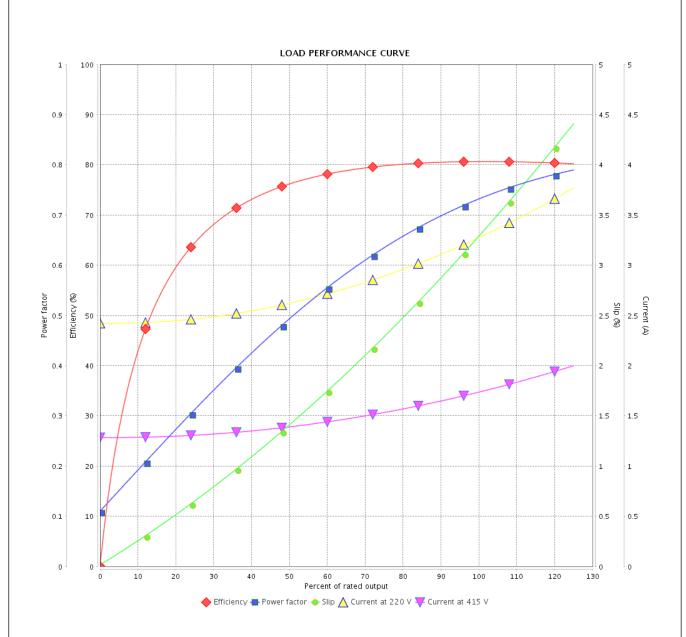
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase Product code : 13737454



Performance	: 220/415 V 50 Hz 4P	: 220/415 V 50 Hz 4P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.34/1.77 A : 6.6 : 0.501 kgfm : 229 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0036 kgm² : Cont.(S1) : F : 1.15 : 80 K : A					
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Date

