

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13702963		
Frame : 56	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : F-1	
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation <sup>1</sup> : Both (CW and CCW)	Starting method : Direct On Line	
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight <sup>2</sup> : 16.9 kg	Moment of inertia (J) : 0.0067 kgm <sup>2</sup>	
Design : B				
Output [HP]	1	1	1	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.16/1.58	3.74/1.87	3.36/1.78	
L. R. Amperes [A]	18.3/9.16	16.5/8.23	17.5/9.26	
LRC [A]	5.8x(Code J)	4.4x(Code F)	5.2x(Code H)	
No load current [A]	2.03/1.01	2.00/1.00	2.14/1.13	
Rated speed [RPM]	1145	915	935	
Slip [%]	4.58	8.50	6.50	
Rated torque [kgfm]	0.634	0.793	0.776	
Locked rotor torque [%]	229	170	229	
Breakdown torque [%]	280	200	250	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	55s (cold) 31s (hot)	54s (cold) 30s (hot)	46s (cold) 26s (hot)	
Noise level <sup>2</sup>	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%			
	50%	80.0	80.1	78.6
	75%	82.5	80.1	80.3
	100%	82.5	77.3	79.3
Power Factor	25%			
	50%	0.50	0.58	0.51
	75%	0.63	0.71	0.65
	100%	0.72	0.79	0.74
Bearing type : 6204 ZZ	Drive end	Non drive end	Foundation loads	
Sealing : V'Ring			Max. traction	: 54 kgf
Lubrication interval : -			Max. compression	: 71 kgf
Lubricant amount : -				
Lubricant type : Mobil Polyrex EM				
Notes USABLE @208V 3.50A SF 1.00 SFA 3.50A				
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.		
Rev.	Changes Summary		Performed	Checked
Performed by			Page	Revision
Checked by				
Date	11/05/2022			
			1 / 4	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

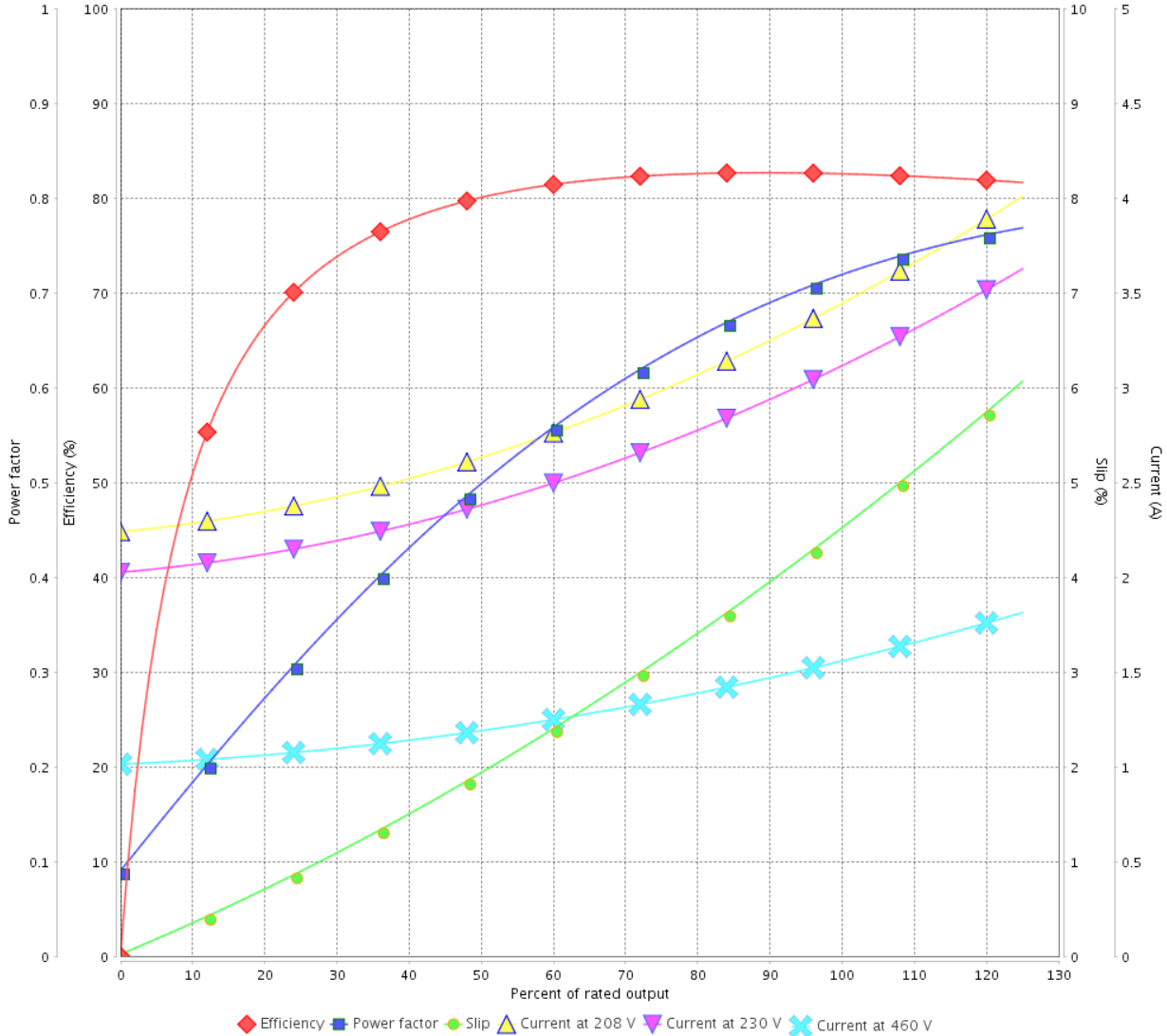


Customer :

Product line : Three-Phase

Product code : 13702963

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 3.16/1.58 A  
 LRC : 5.8  
 Rated torque : 0.634 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
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Date				

# LOAD PERFORMANCE CURVE

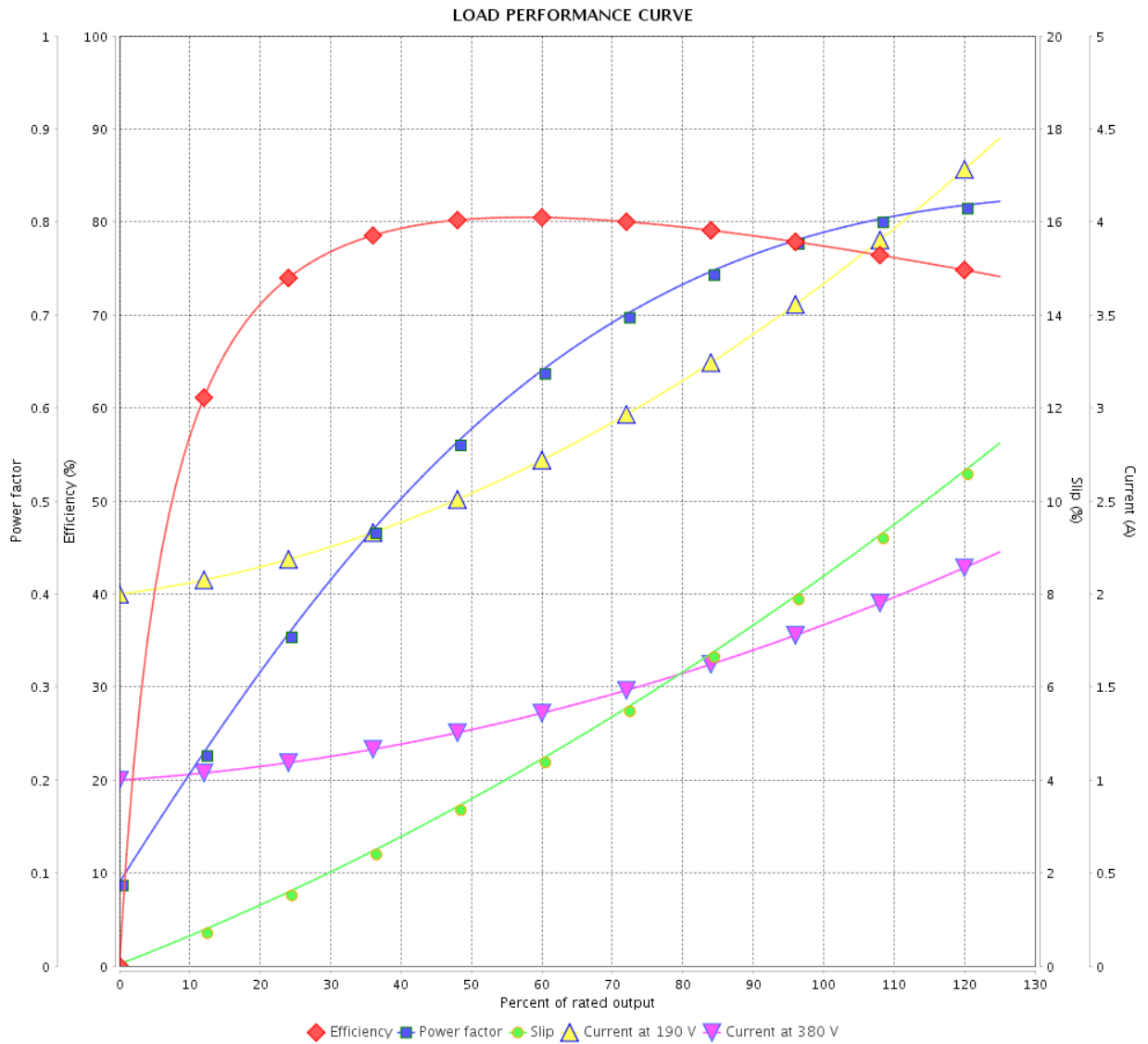
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Three-Phase

Product code : 13702963



Performance : 190/380 V 50 Hz 6P

Rated current : 3.74/1.87 A  
 LRC : 4.4  
 Rated torque : 0.793 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Rated speed : 915 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
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Date				

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

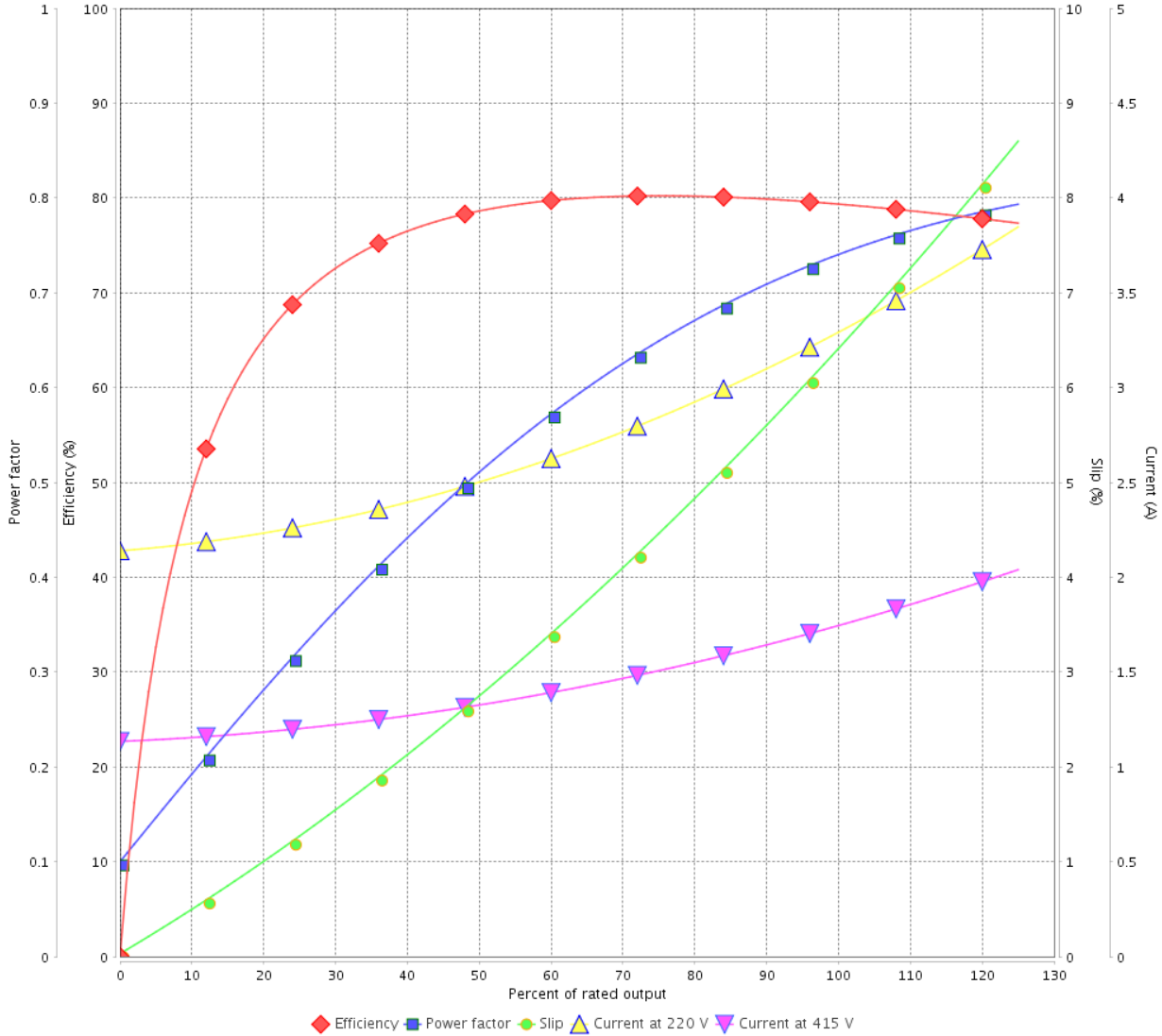


Customer :

Product line : Three-Phase

Product code : 13702963

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 6P

Rated current : 3.36/1.78 A  
 LRC : 5.2  
 Rated torque : 0.776 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 250 %  
 Rated speed : 935 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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