

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675349
Frame	: 143/5TC	Cooling method	: IC411 - TEFC
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>	: 18.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
Design	: B		
Output [HP]	2	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	4.94/2.47	5.94-5.13/2.97	2.77
L. R. Amperes [A]	48.9/24.5	44.0-38.0/22.0	24.4
LRC [A]	9.9x(Code L)	7.4x(Code J)	8.8x(Code K)
No load current [A]	2.13/1.06	2.10-1.81/1.05	1.20
Rated speed [RPM]	3520	2875	2900
Slip [%]	2.22	4.17	3.33
Rated torque [kgfm]	0.412	0.505	0.501
Locked rotor torque [%]	250	229	280
Breakdown torque [%]	300	280	340
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	82.5	83.3
	75%	85.5	84.9
	100%	85.5	84.5
Power Factor	25%		
	50%	0.73	0.73
	75%	0.83	0.84
	100%	0.89	0.89
Bearing type	: <u>Drive end</u> 6205 ZZ	<u>Non drive end</u> 6203 ZZ	Foundation loads
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 39 kgf
Lubrication interval	: -	-	Max. compression : 57 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 5.46A SF 1.00 SFA 5.46A			
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			
Checked by			
Date	13/05/2022		
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# LOAD PERFORMANCE CURVE

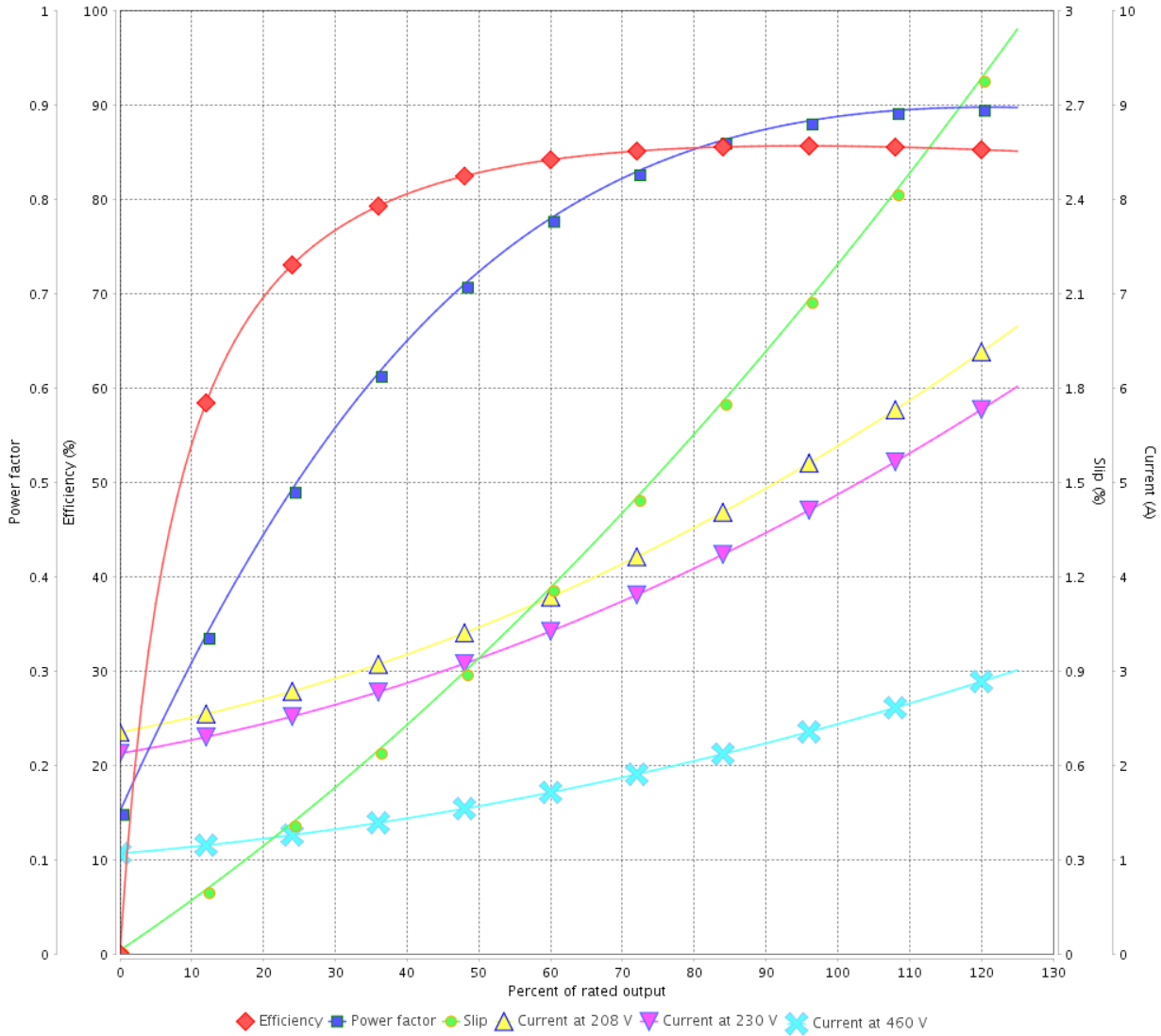
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675349

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A  
 LRC : 9.9  
 Rated torque : 0.412 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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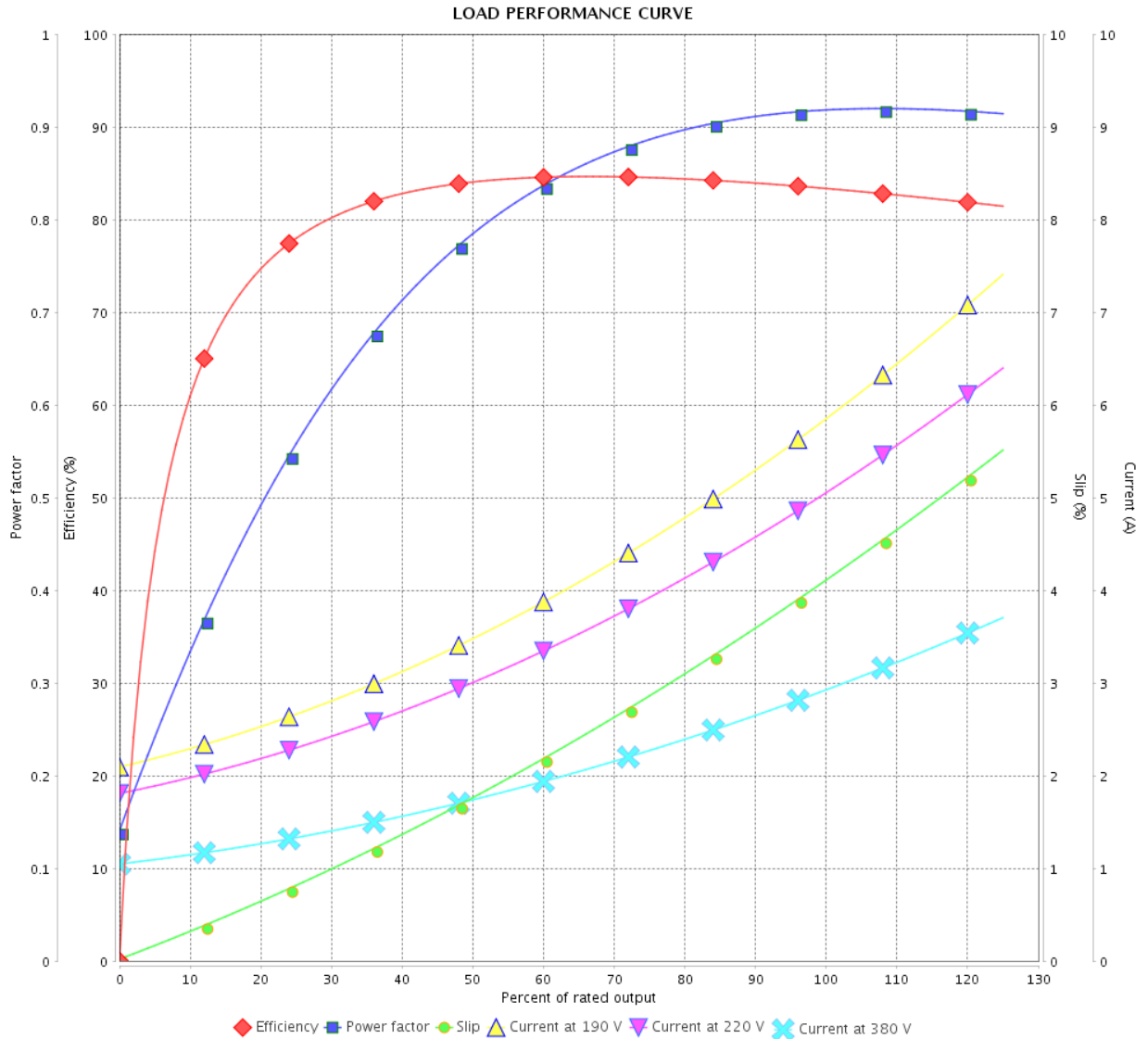
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675349



Performance : 190-220/380 V 50 Hz 2P

Rated current : 5.94-5.13/2.97 A  
 LRC : 7.4  
 Rated torque : 0.505 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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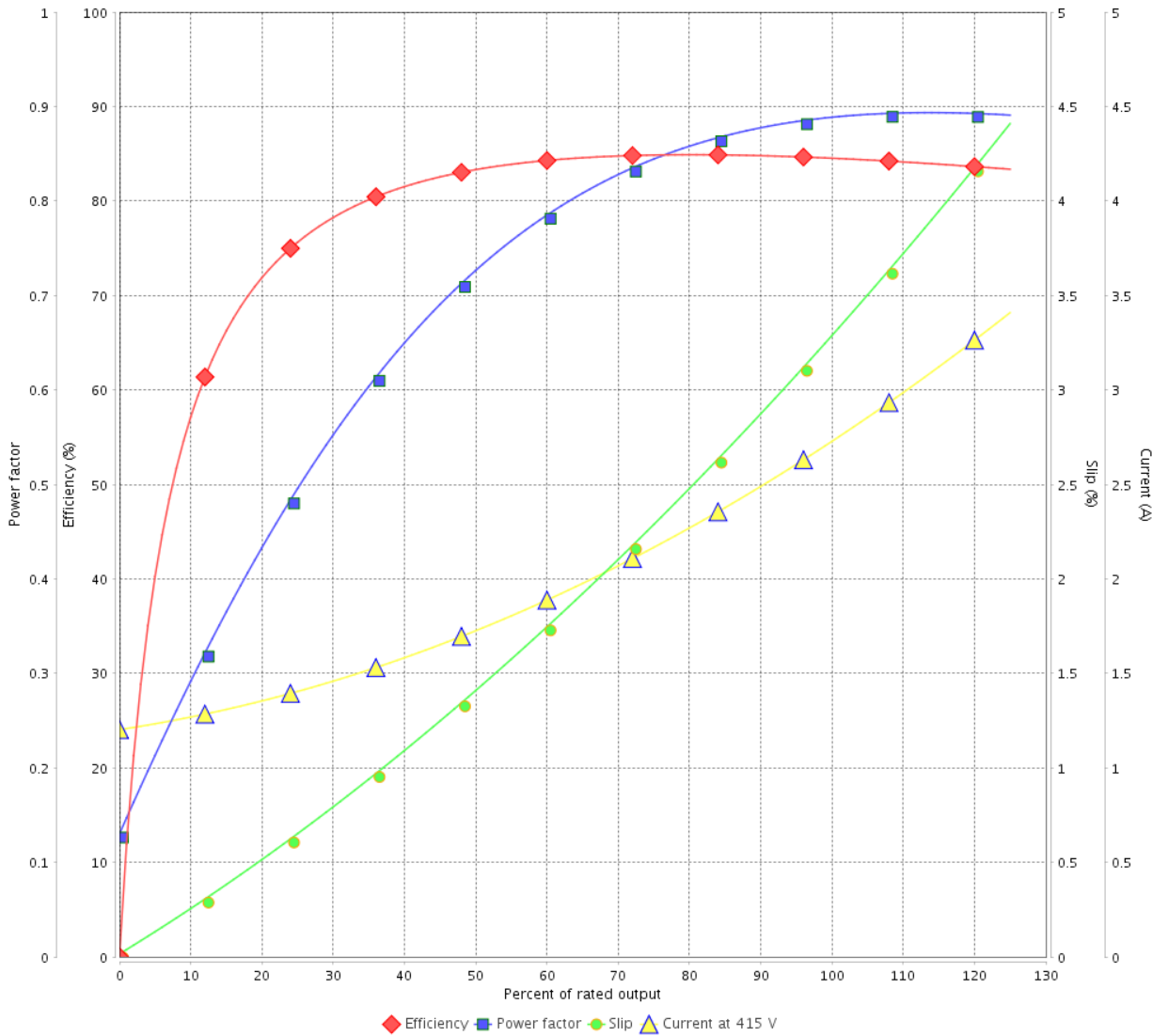
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 2P

Rated current	: 2.77 A	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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