

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675402	
Frame	: 182/4T	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>2</sup>	: 38.2 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm <sup>2</sup>	
Design	: B			
Output [HP]	3	3	3	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	7.62/3.81	9.08/4.54	8.30/4.40	
L. R. Amperes [A]	67.1/33.5	60.8/30.4	62.3/33.0	
LRC [A]	8.8x(Code K)	6.7x(Code H)	7.5x(Code J)	
No load current [A]	4.00/2.00	3.95/1.97	3.99/2.11	
Rated speed [RPM]	1765	1455	1460	
Slip [%]	1.94	3.00	2.67	
Rated torque [kgfm]	1.23	1.50	1.49	
Locked rotor torque [%]	220	170	200	
Breakdown torque [%]	300	260	290	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	86.4	87.8	
	50%	87.5	87.2	
	75%	88.5	87.9	
	100%	89.5	87.0	
Power Factor	25%	0.36	0.39	
	50%	0.61	0.65	
	75%	0.74	0.77	
	100%	0.81	0.83	
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 71 kgf	
Lubrication interval	: -	-	Max. compression : 109 kgf	
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 8.43A SF 1.00 SFA 8.43A				
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	Date
Performed by				
Checked by			Page	Revision
Date	13/05/2022		1 / 4	

# LOAD PERFORMANCE CURVE

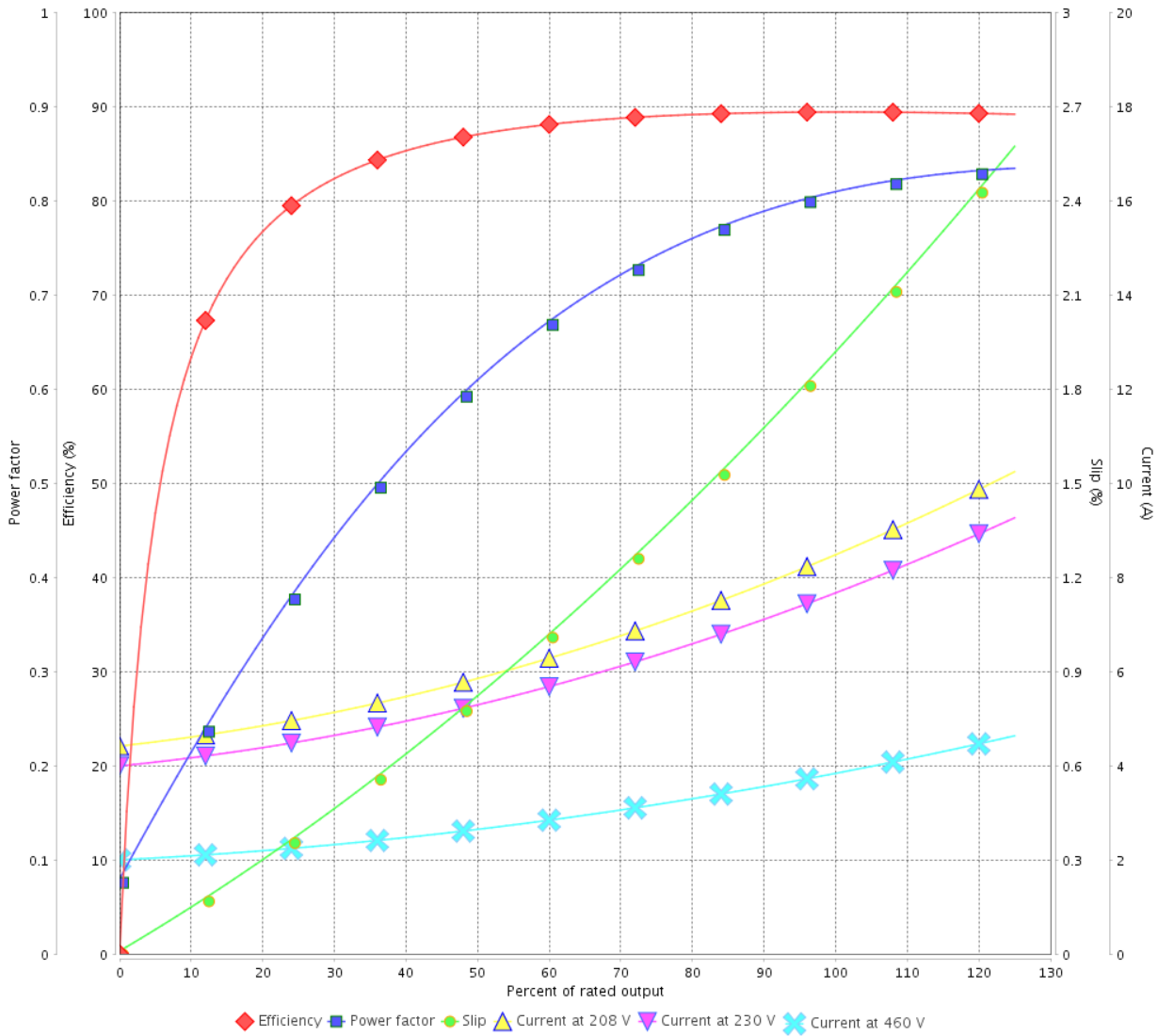
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675402

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 7.62/3.81 A  
 LRC : 8.8  
 Rated torque : 1.23 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0169 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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

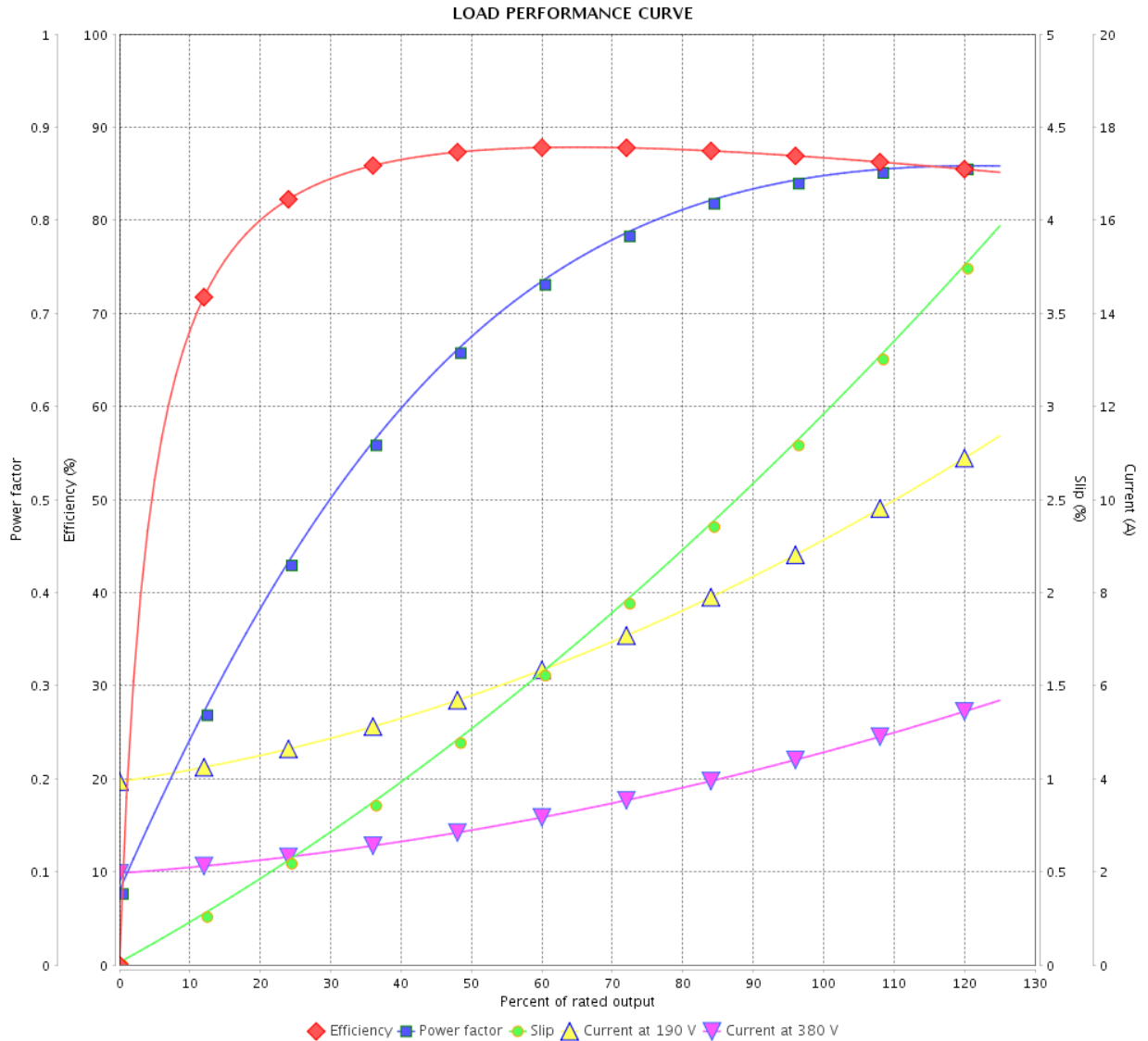
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675402



Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A  
 LRC : 6.7  
 Rated torque : 1.50 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 260 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0169 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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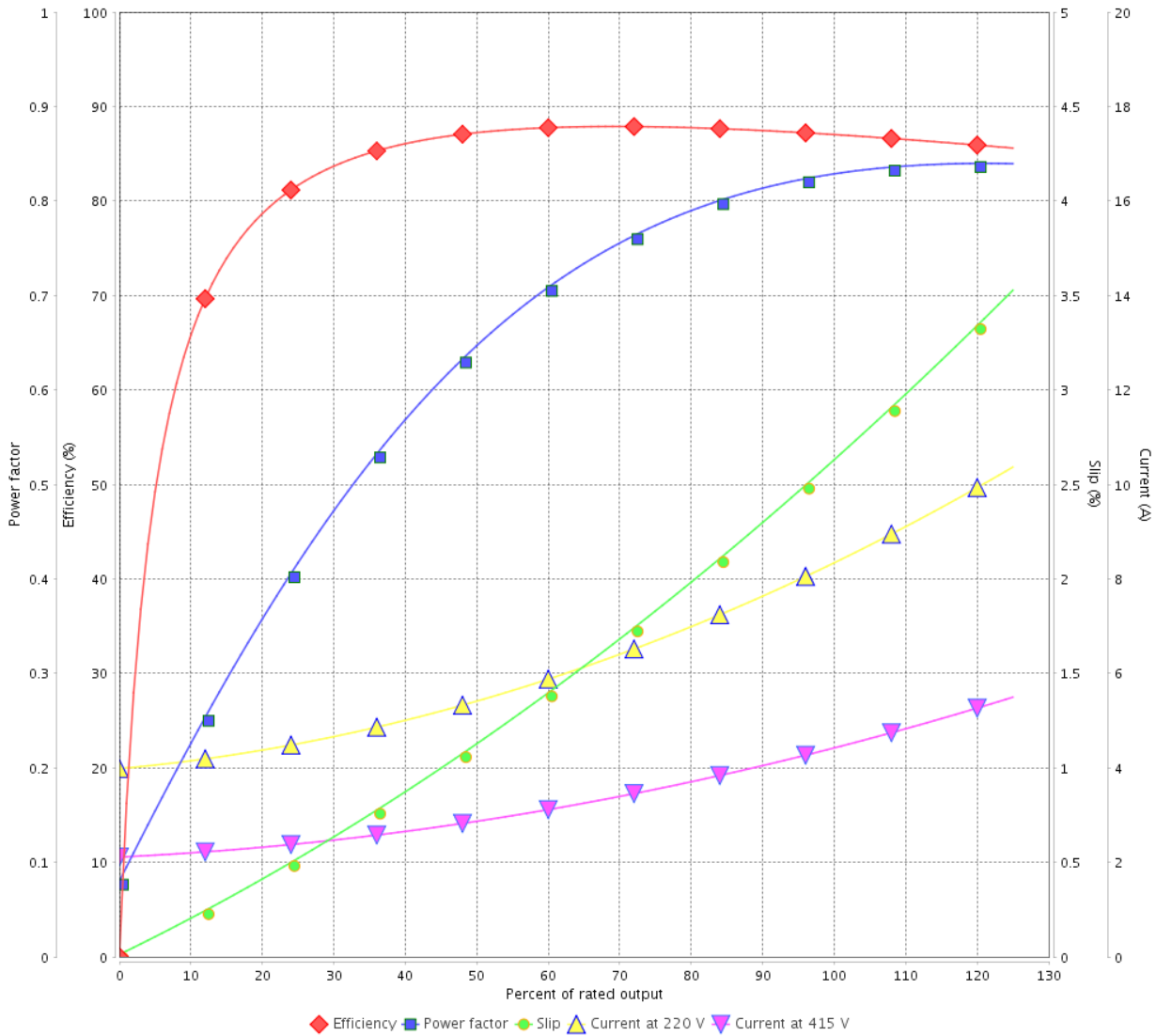
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675402

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Performance : 220/415 V 50 Hz 4P

Rated current : 8.30/4.40 A  
 LRC : 7.5  
 Rated torque : 1.49 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 290 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0169 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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