

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12735166	
Frame	: 254/6T	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>2</sup>	: 97.4 kg	
Design	: B	Moment of inertia (J)	: 0.1053 kgm <sup>2</sup>	
Output [HP]	10	10	10	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	27.8/13.9	33.2/16.6	29.8/15.8	
L. R. Amperes [A]	147/73.7	139/69.7	137/72.7	
LRC [A]	5.3x(Code G)	4.2x(Code E)	4.6x(Code F)	
No load current [A]	14.7/7.33	14.4/7.22	14.9/7.90	
Rated speed [RPM]	1180	970	970	
Slip [%]	1.67	3.00	3.00	
Rated torque [kgfm]	6.15	7.48	7.48	
Locked rotor torque [%]	210	150	170	
Breakdown torque [%]	229	180	200	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	61s (cold) 34s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)	
Efficiency (%)	25%	90.8	91.5	90.5
	50%	91.0	90.1	89.7
	75%	91.7	89.7	89.9
	100%	91.7	88.0	88.7
Power Factor	25%	0.32	0.38	0.35
	50%	0.56	0.63	0.59
	75%	0.68	0.74	0.71
	100%	0.74	0.78	0.77
Bearing type	: Drive end 6309 Z C3 Non drive end 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 186 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 284 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 30.7A SF 1.00 SFA 30.7A				
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

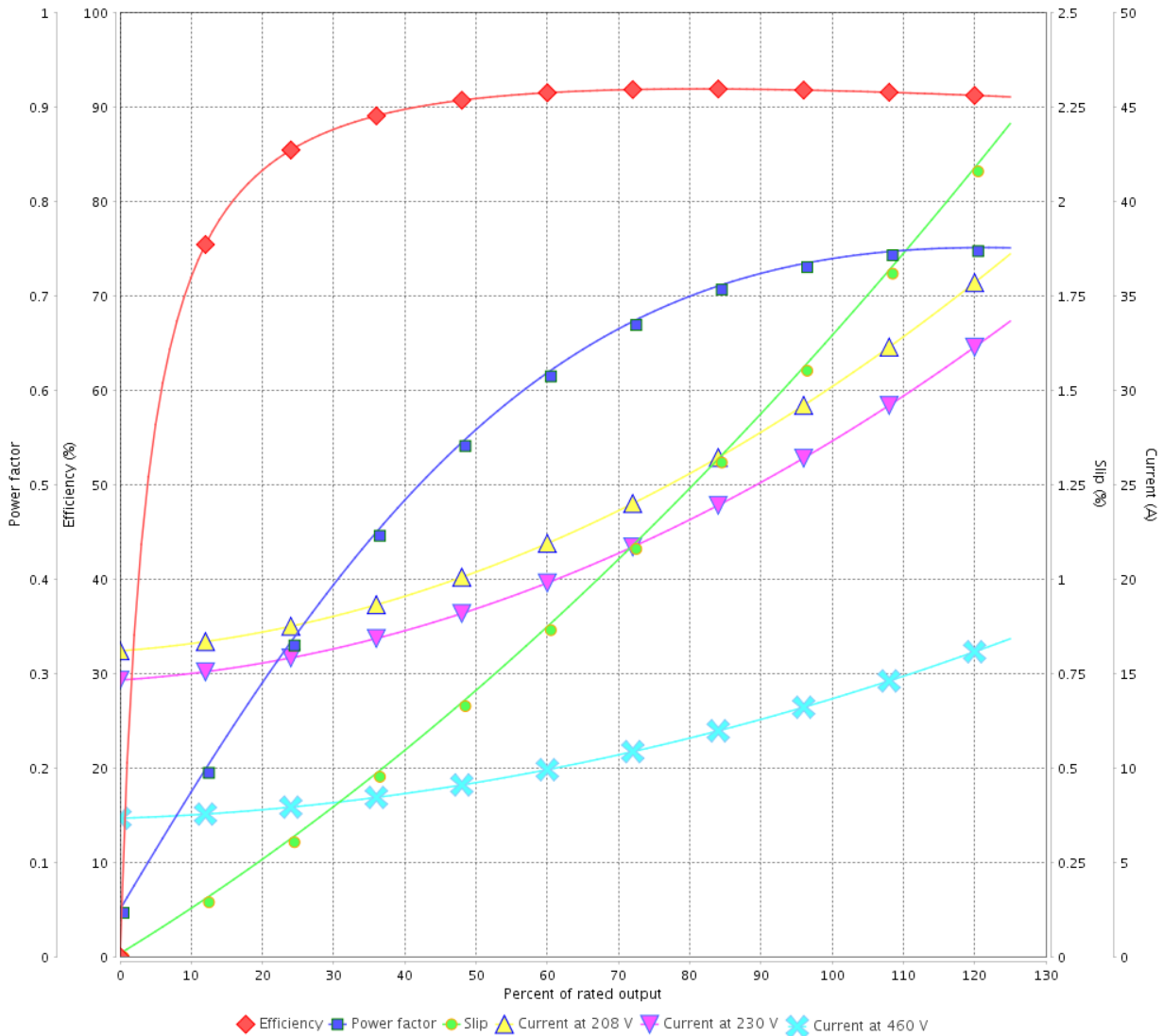
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12735166

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 27.8/13.9 A  
 LRC : 5.3  
 Rated torque : 6.15 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 229 %  
 Rated speed : 1180 rpm

Moment of inertia (J) : 0.1053 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				

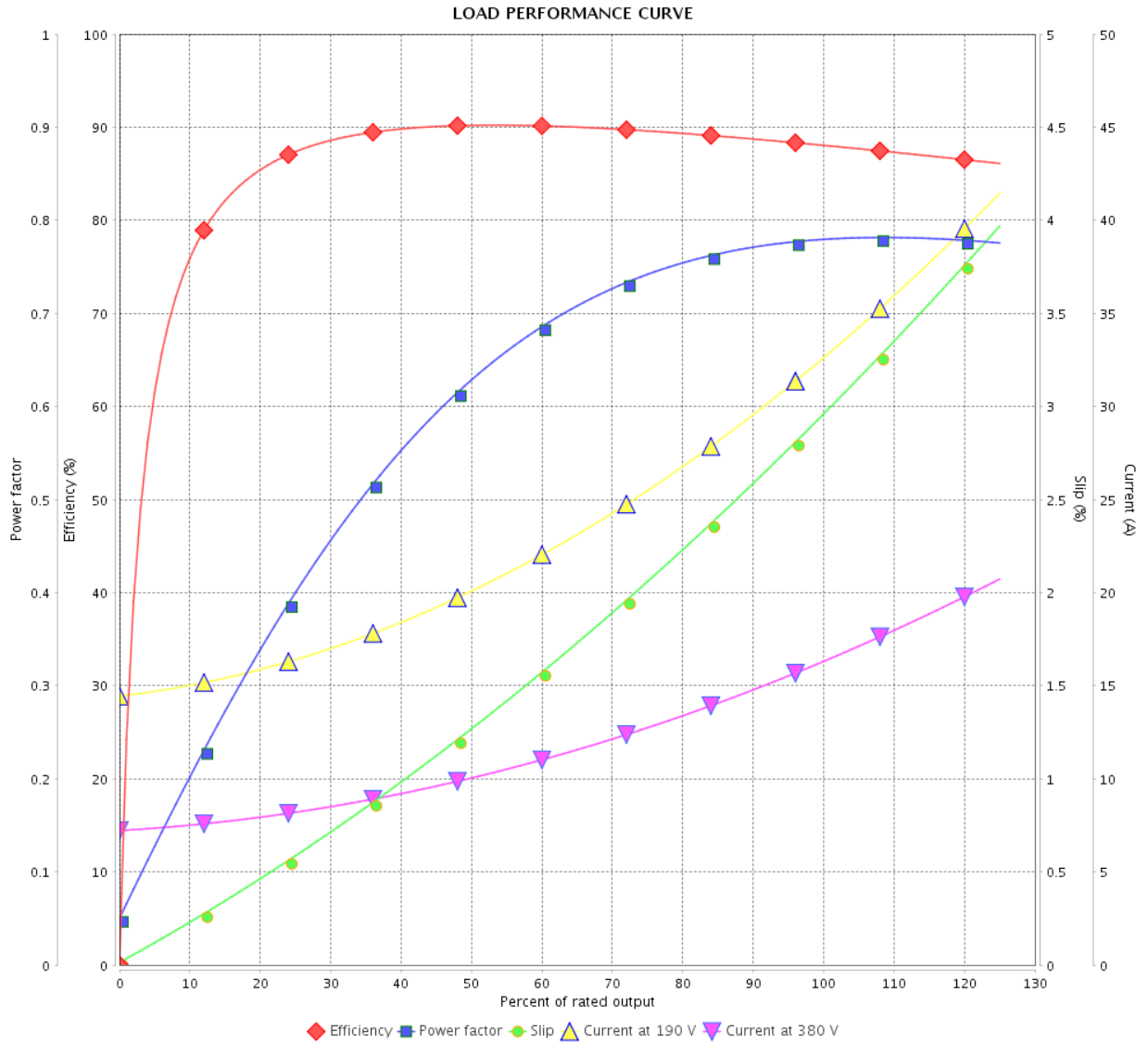
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12735166



Performance : 190/380 V 50 Hz 6P

Rated current : 33.2/16.6 A  
 LRC : 4.2  
 Rated torque : 7.48 kgfm  
 Locked rotor torque : 150 %  
 Breakdown torque : 180 %  
 Rated speed : 970 rpm

Moment of inertia (J) : 0.1053 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
Checked by		3 / 4		
Date		13/05/2022		

# LOAD PERFORMANCE CURVE

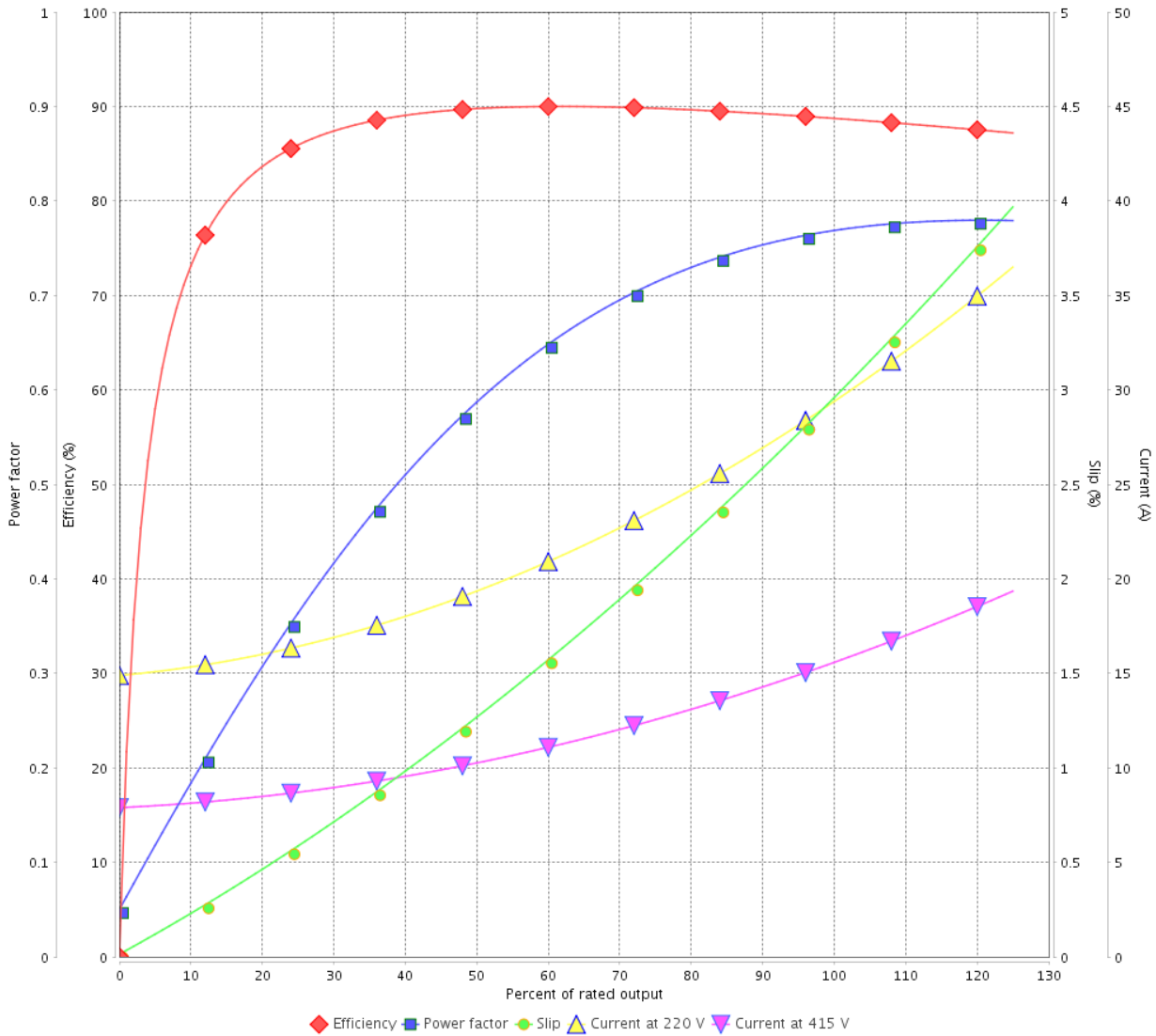
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12735166

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 6P

Rated current : 29.8/15.8 A  
 LRC : 4.6  
 Rated torque : 7.48 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Rated speed : 970 rpm

Moment of inertia (J) : 0.1053 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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