

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12751166
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>	: 30.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm <sup>2</sup>
Design	: B		
Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.34/3.67	8.70/4.35	7.81/4.14
L. R. Amperes [A]	64.6/32.3	60.0/30.0	59.4/31.5
LRC [A]	8.8x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	3.22/1.61	3.18/1.59	3.22/1.71
Rated speed [RPM]	3515	2885	2900
Slip [%]	2.36	3.83	3.33
Rated torque [kgfm]	0.619	0.755	0.751
Locked rotor torque [%]	220	180	210
Breakdown torque [%]	300	280	310
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (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%	83.6	86.0
	50%	84.0	85.9
	75%	86.5	86.5
	100%	86.5	85.3
Power Factor	25%	0.44	0.50
	50%	0.71	0.77
	75%	0.82	0.86
	100%	0.87	0.90
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 : 33 kgf
Lubrication interval	: -	-	Max. compression : 64 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 8.12A SF 1.00 SFA 8.12A			
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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Checked by			
Date	13/05/2022		
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# LOAD PERFORMANCE CURVE

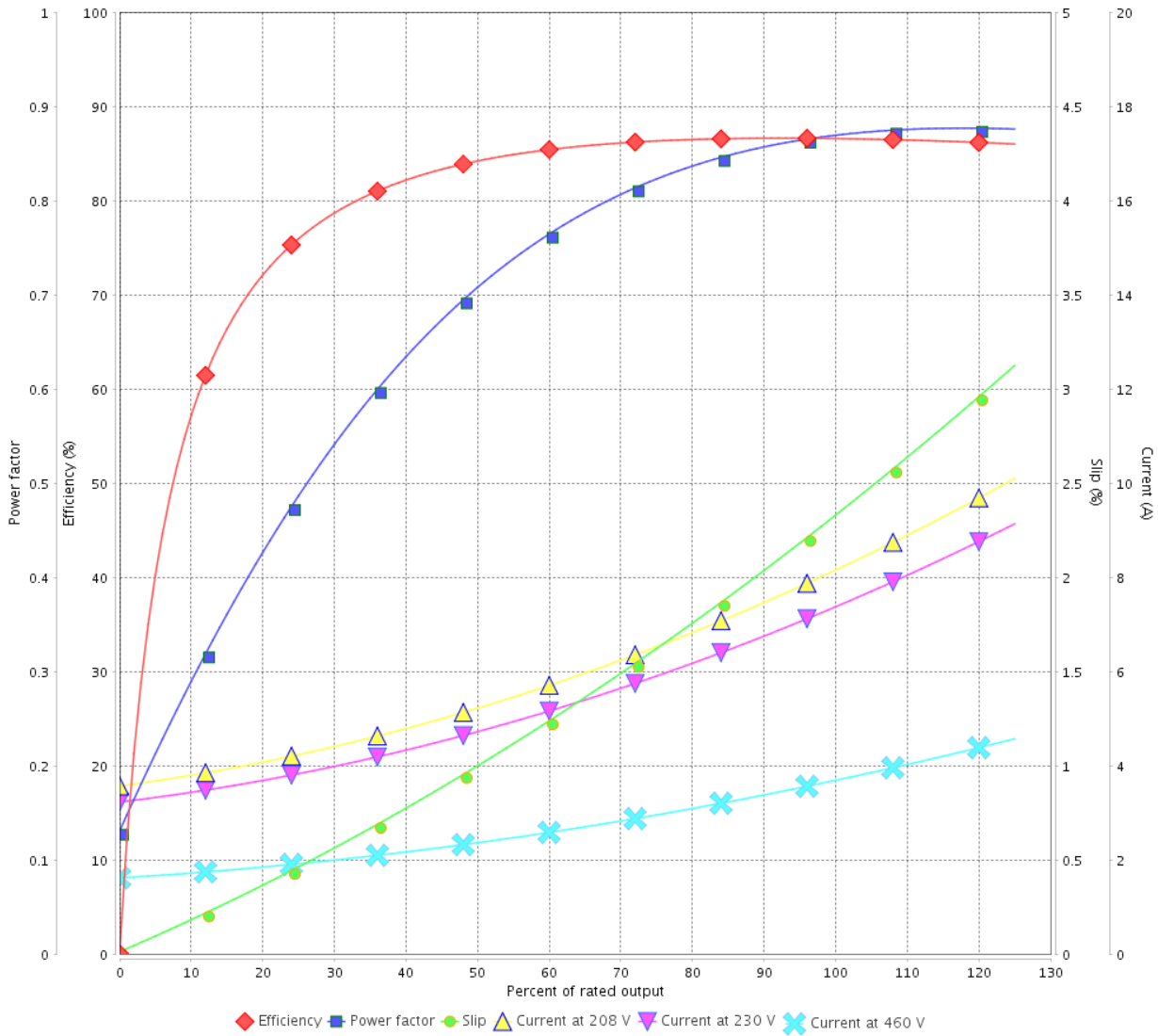
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LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 7.34/3.67 A  
 LRC : 8.8  
 Rated torque : 0.619 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0066 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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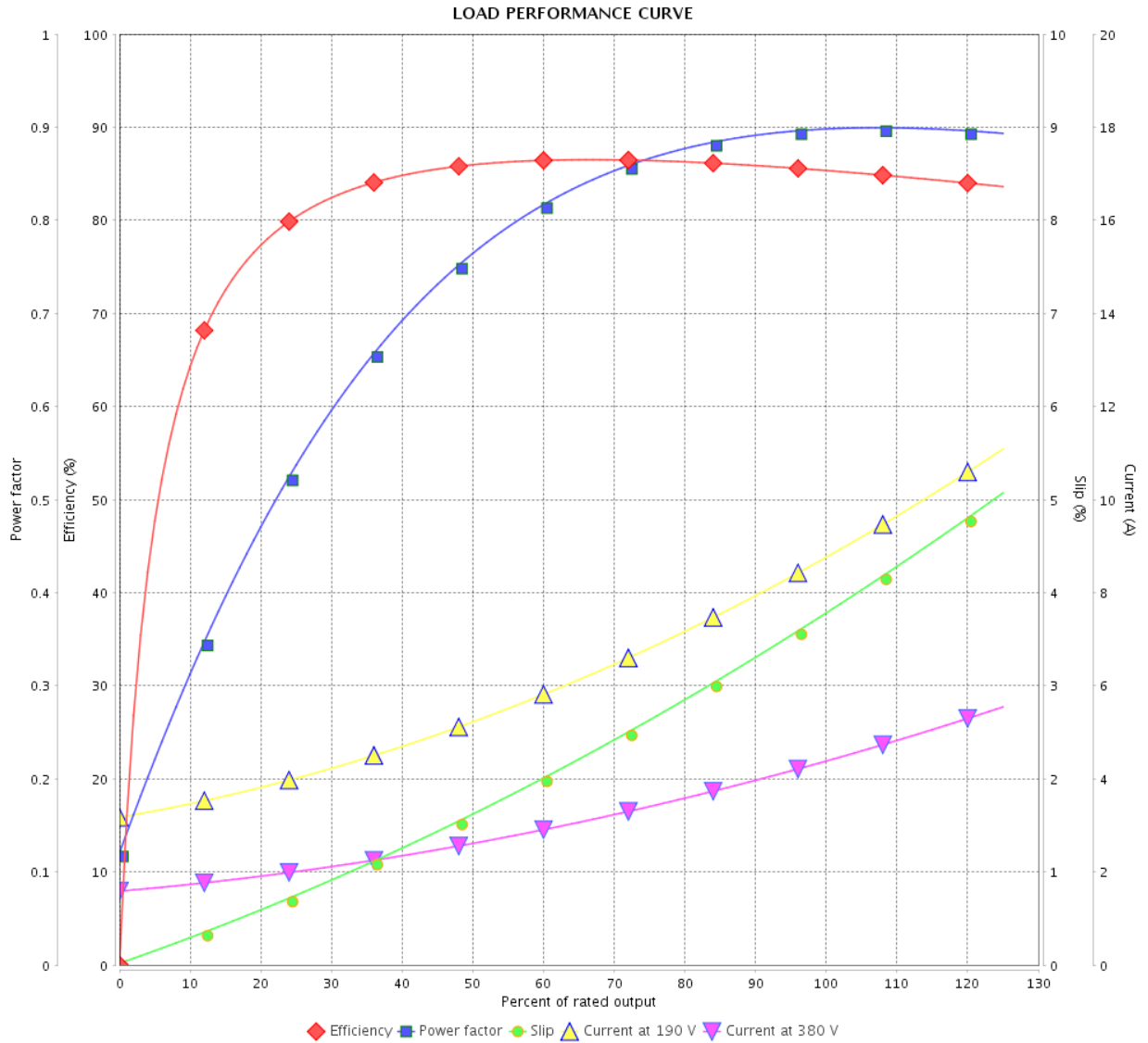
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

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Performance : 190/380 V 50 Hz 2P

Rated current : 8.70/4.35 A  
 LRC : 6.9  
 Rated torque : 0.755 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 280 %  
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0066 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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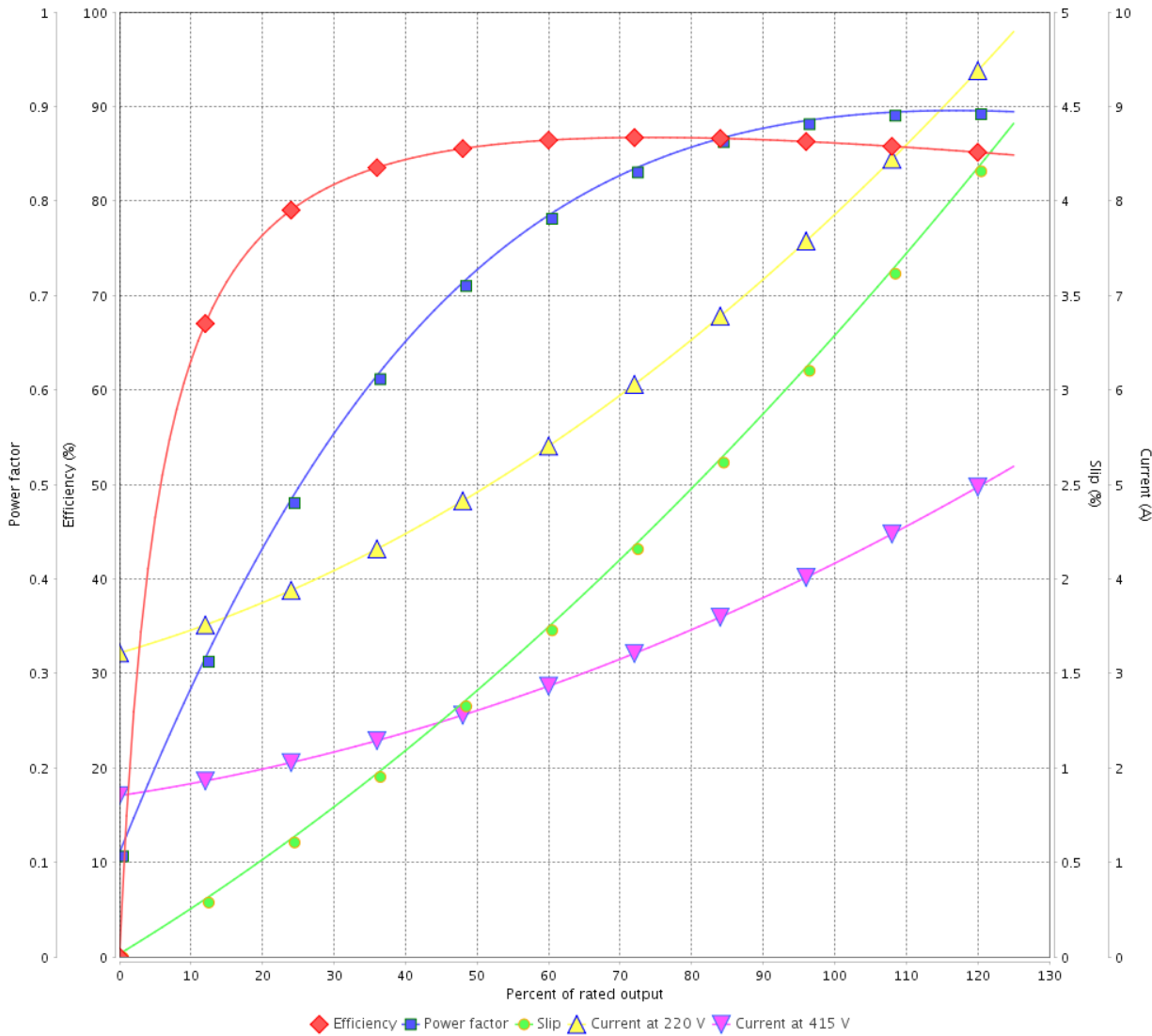
Three Phase Induction Motor - Squirrel Cage



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Performance : 220/415 V 50 Hz 2P

Rated current : 7.81/4.14 A  
 LRC : 7.6  
 Rated torque : 0.751 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 310 %  
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0066 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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