

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751144

Frame	: 182/4T	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>3</sup>	: 32.3 kg
Design	: B	Moment of inertia (J)	: 0.0077 kgm <sup>2</sup>

Output [HP]	7.5	7.5	7.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	17.3/8.67	21.4/10.7	19.2/10.2
L. R. Amperes [A]	128/64.2	120/59.9	121/64.3
LRC [A]	7.4x(Code H)	5.6x(Code F)	6.3x(Code G)
No load current [A]	6.43/3.22	6.33/3.17	6.59/3.49
Rated speed [RPM]	3500	2865	2880
Slip [%]	2.78	4.50	4.00
Rated torque [kgfm]	1.56	1.90	1.89
Locked rotor torque [%]	180	150	170
Breakdown torque [%]	290	210	240
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	88.3	91.3
	50%	88.5	88.9
	75%	88.5	87.4
	100%	88.5	84.7
Power Factor	25%	0.49	0.55
	50%	0.76	0.82
	75%	0.85	0.89
	100%	0.90	0.92

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6206 ZZ	6205 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 79 kgf
	Bearing Seal	Bearing Seal	Max. compression : 111 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes  
USABLE @208V 19.2A SF 1.00 SFA 19.2A

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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Performed by				
Checked by				
Date	13/05/2022			

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Revision

# LOAD PERFORMANCE CURVE

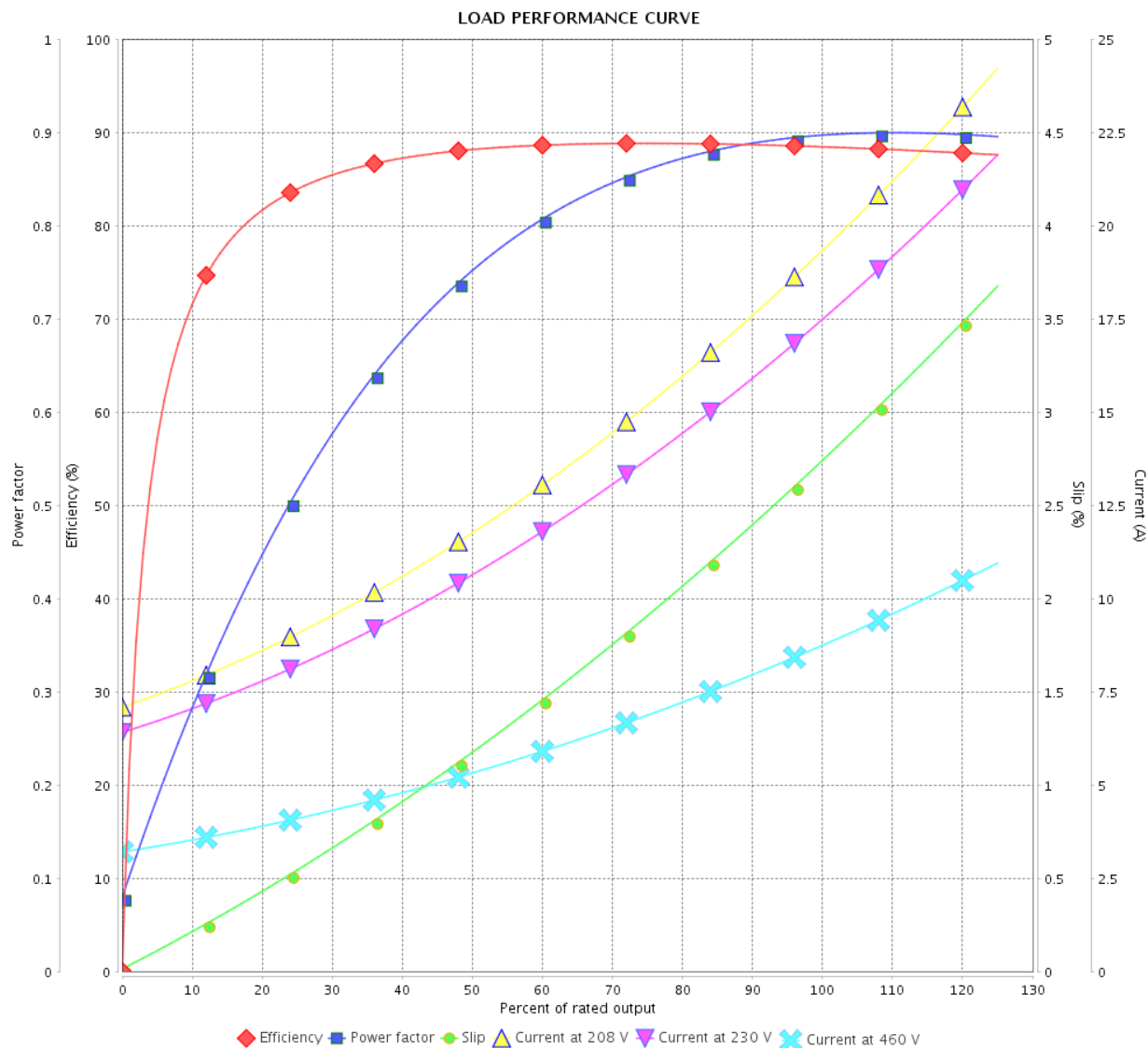
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751144



Performance : 230/460 V 60 Hz 2P

Rated current : 17.3/8.67 A  
LRC : 7.4  
Rated torque : 1.56 kgfm  
Locked rotor torque : 180 %  
Breakdown torque : 290 %  
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0077 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

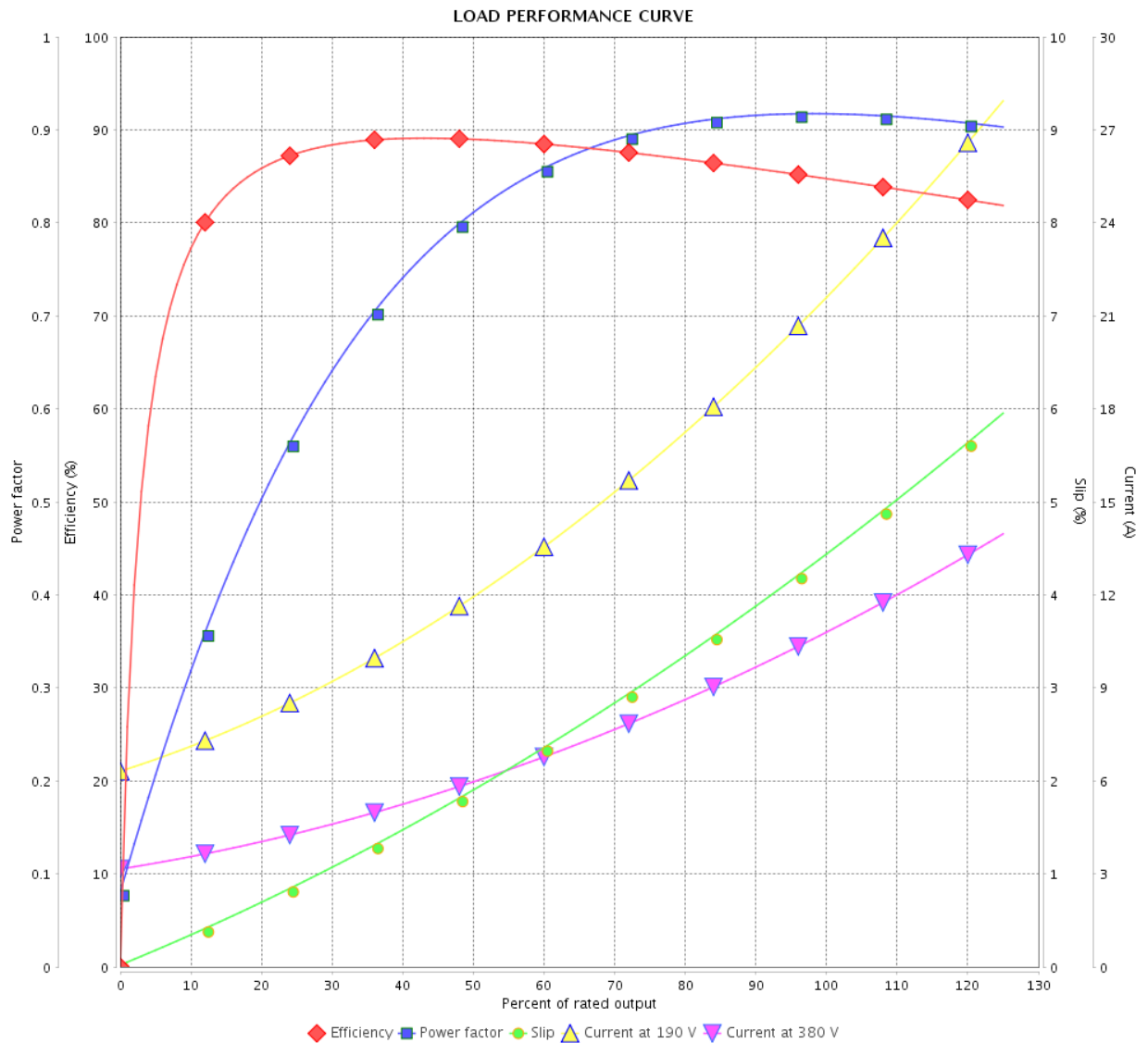
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751144



Performance : 190/380 V 50 Hz 2P

Rated current : 21.4/10.7 A  
 LRC : 5.6  
 Rated torque : 1.90 kgfm  
 Locked rotor torque : 150 %  
 Breakdown torque : 210 %  
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0077 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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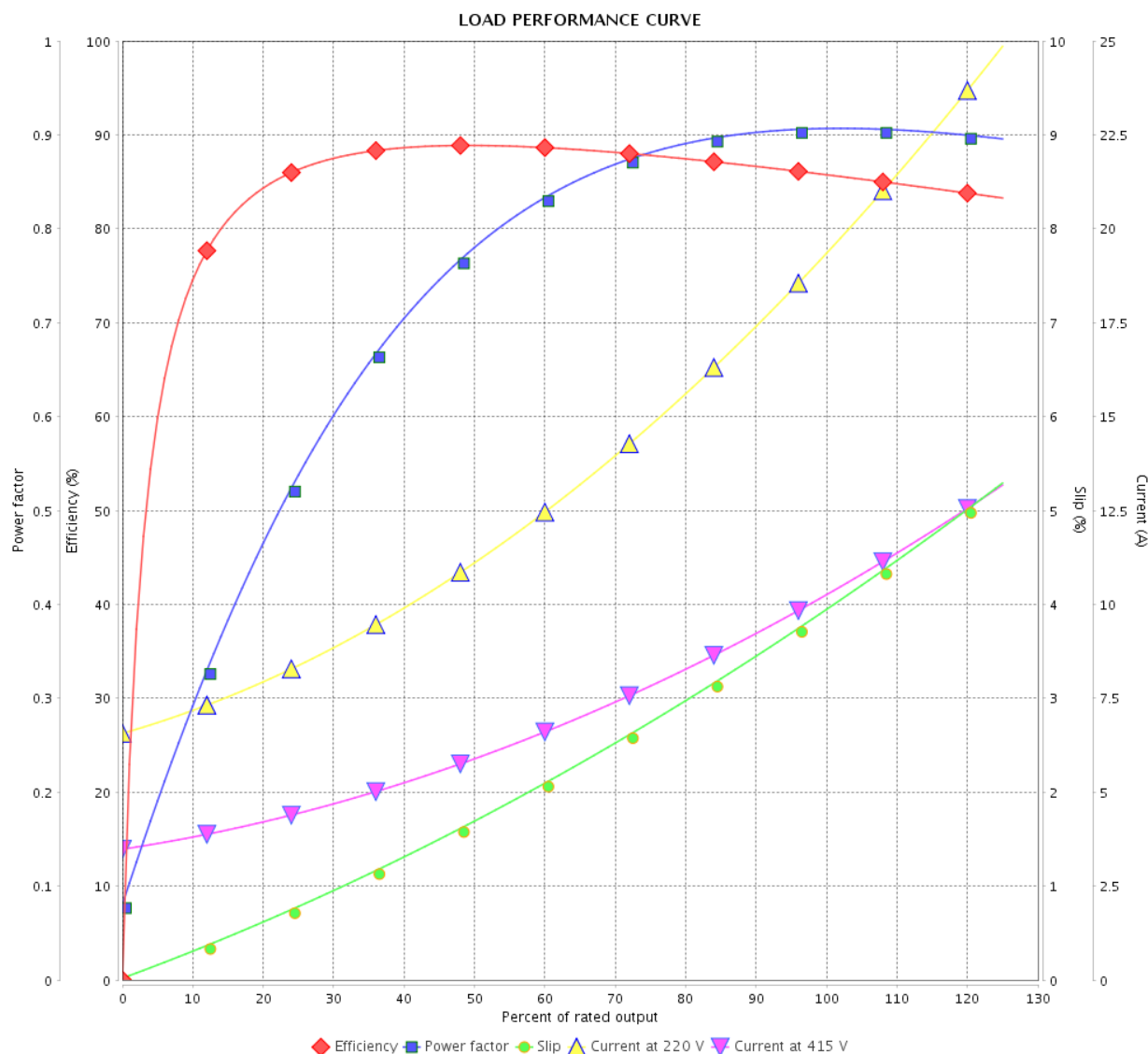
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12751144



Performance : 220/415 V 50 Hz 2P

Rated current : 19.2/10.2 A  
LRC : 6.3  
Rated torque : 1.89 kgfm  
Locked rotor torque : 170 %  
Breakdown torque : 240 %  
Rated speed : 2880 rpm

Moment of inertia (J) : 0.0077 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 105 K  
Design : B

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