

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: General NEMA Premium Efficiency Three-Phase		Product code : 10360048	
Frame	: 182T	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>	: 26.7 kg		
Protection degree	: IP21	Moment of inertia (J)	: 0.0107 kgm <sup>2</sup>		
Design	: B				
Output [HP]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	8.12/4.06	4.72	4.65	4.66	
L. R. Amperes [A]	65.8/32.9	28.8	30.2	32.2	
LRC [A]	8.1x(Code K)	6.1x(Code H)	6.5x(Code H)	6.9x(Code J)	
No load current [A]	4.74/2.37	2.15	2.40	2.65	
Rated speed [RPM]	1760	1450	1450	1455	
Slip [%]	2.22	3.33	3.33	3.00	
Rated torque [kgfm]	1.24	1.50	1.50	1.50	
Locked rotor torque [%]	240	200	220	250	
Breakdown torque [%]	300	280	310	340	
Service factor	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	21s (cold) 12s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	
Noise level <sup>2</sup>	53.0 dB(A)				
Efficiency (%)	25%				
	50%	85.5	85.5	85.5	
	75%	88.5	86.5	86.5	
	100%	89.5	87.5	87.5	
Power Factor	25%				
	50%	0.54	0.63	0.58	
	75%	0.68	0.75	0.71	
	100%	0.76	0.81	0.78	
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 93 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 120 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 8.98A SF 1.15 SFA 10.3A					
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	05/02/2024			1 / 5	

# LOAD PERFORMANCE CURVE

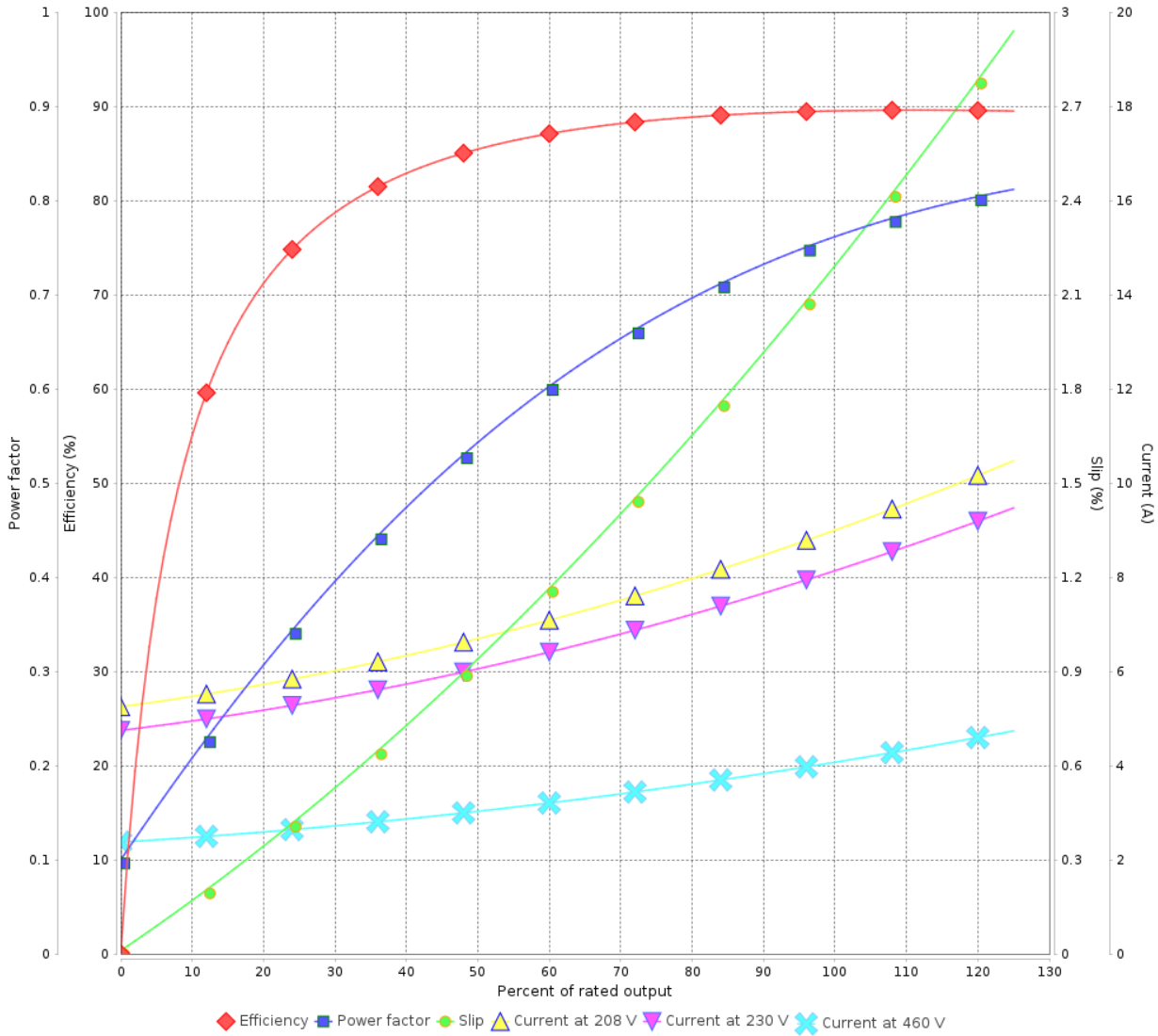
Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10360048

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 8.12/4.06 A  
 LRC : 8.1  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0107 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				
Date				

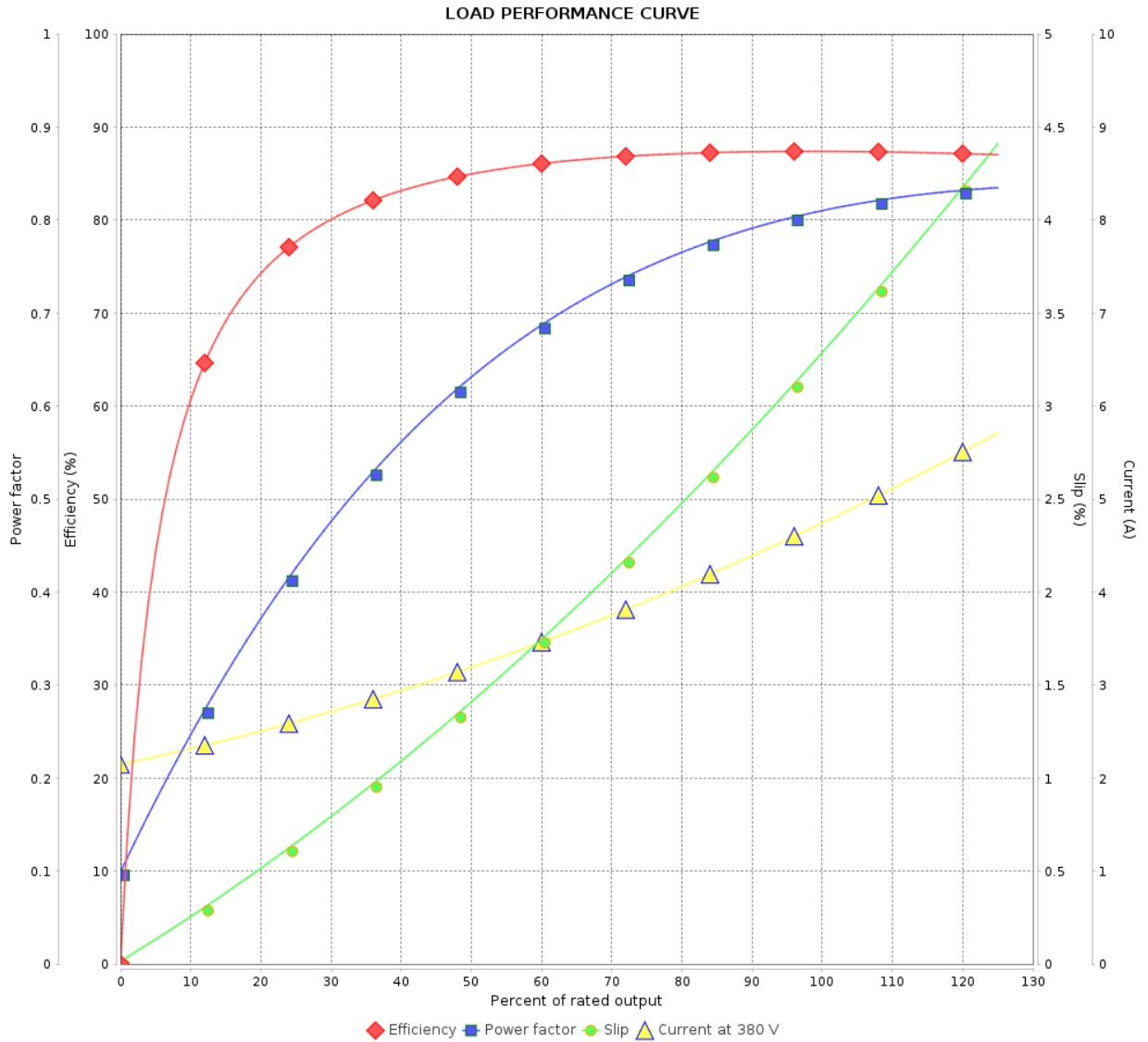
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10360048



Performance : 380 V 50 Hz 4P IE3

Rated current : 4.72 A  
 LRC : 6.1  
 Rated torque : 1.50 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 280 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0107 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				
Date				

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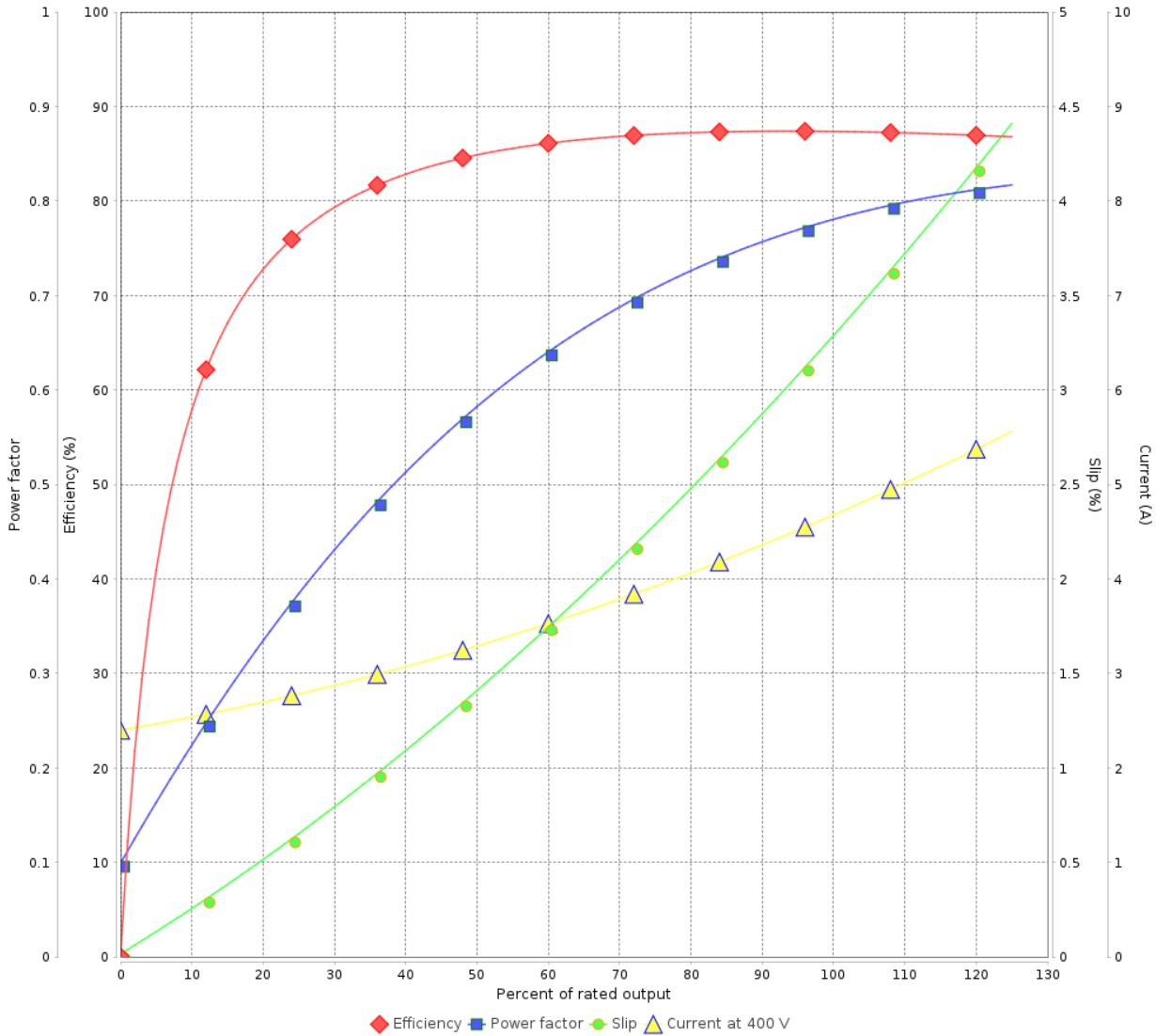
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10360048

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Performance : 400 V 50 Hz 4P IE3

Rated current	: 4.65 A	Moment of inertia (J)	: 0.0107 kgm <sup>2</sup>
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1.50 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 5	Revision
Checked by				
Date	05/02/2024			

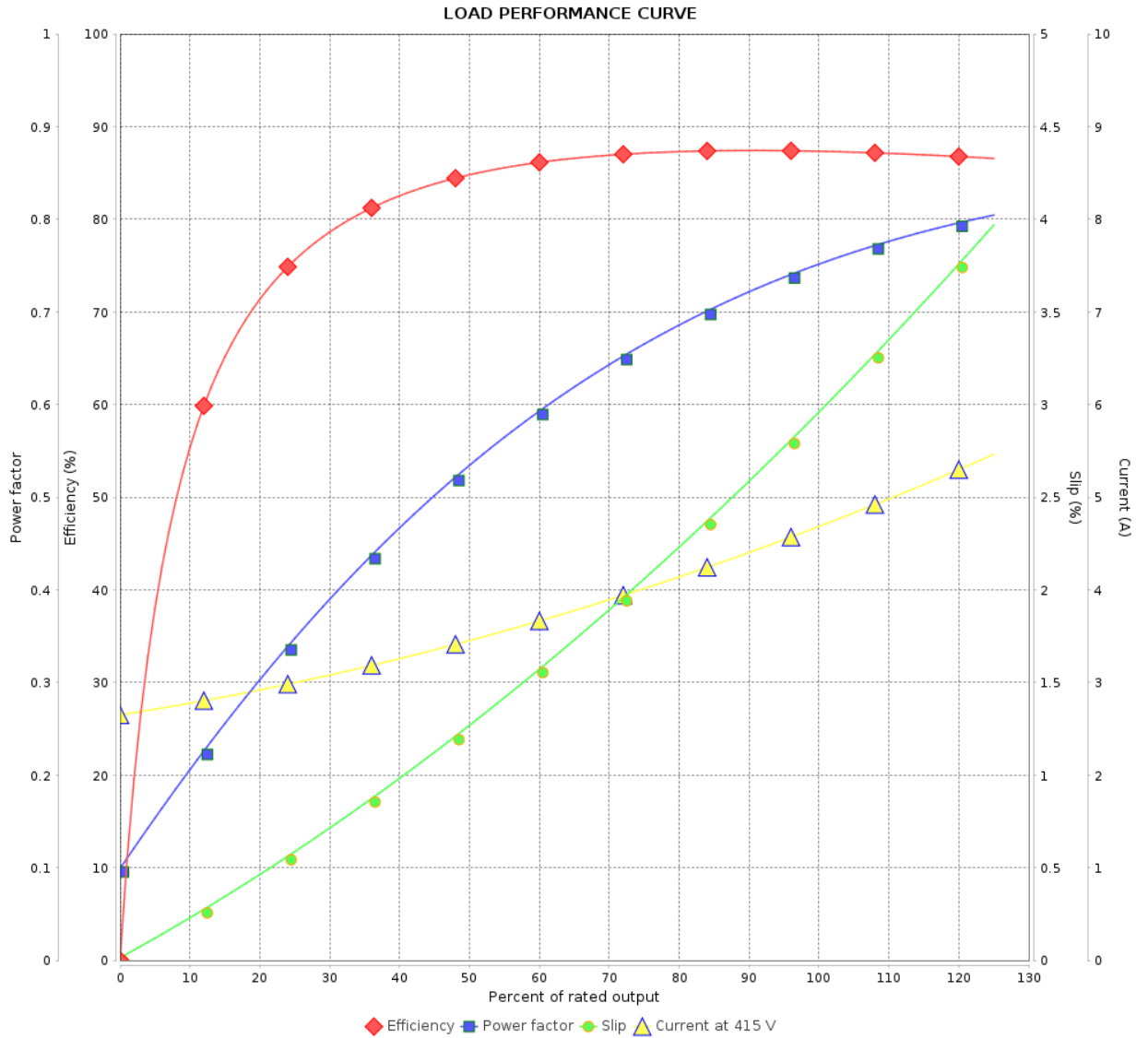
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10360048



Performance : 415 V 50 Hz 4P IE3

Rated current : 4.66 A  
 LRC : 6.9  
 Rated torque : 1.50 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 340 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0107 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 5 / 5	Revision
Checked by				
Date	05/02/2024			