

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12675359	
Frame	: 143/5TC	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: B	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation <sup>1</sup>	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight <sup>2</sup>	: 17.5 kg	
Moment of inertia (J)	: 0.0052 kgm <sup>2</sup>	
Output [HP]	1	
Poles	4	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	2.94/1.47	
L. R. Amperes [A]	25.3/12.6	
LRC [A]	8.6x(Code M)	
No load current [A]	1.78/0.890	
Rated speed [RPM]	1765	
Slip [%]	1.94	
Rated torque [kgfm]	0.411	
Locked rotor torque [%]	280	
Breakdown torque [%]	300	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	34s (cold) 19s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	
Efficiency (%)	25%	81.0
	50%	82.5
	75%	84.0
	100%	85.5
Power Factor	25%	0.30
	50%	0.52
	75%	0.66
	100%	0.75
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 34 kgf	
	Max. compression : 51 kgf	
Notes USABLE @208V 3.25A SF 1.00 SFA 3.25A		
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 by	Performed	
Checked by	Checked	
Date	13/05/2022	
Page	1 / 4	
Revision		

# LOAD PERFORMANCE CURVE

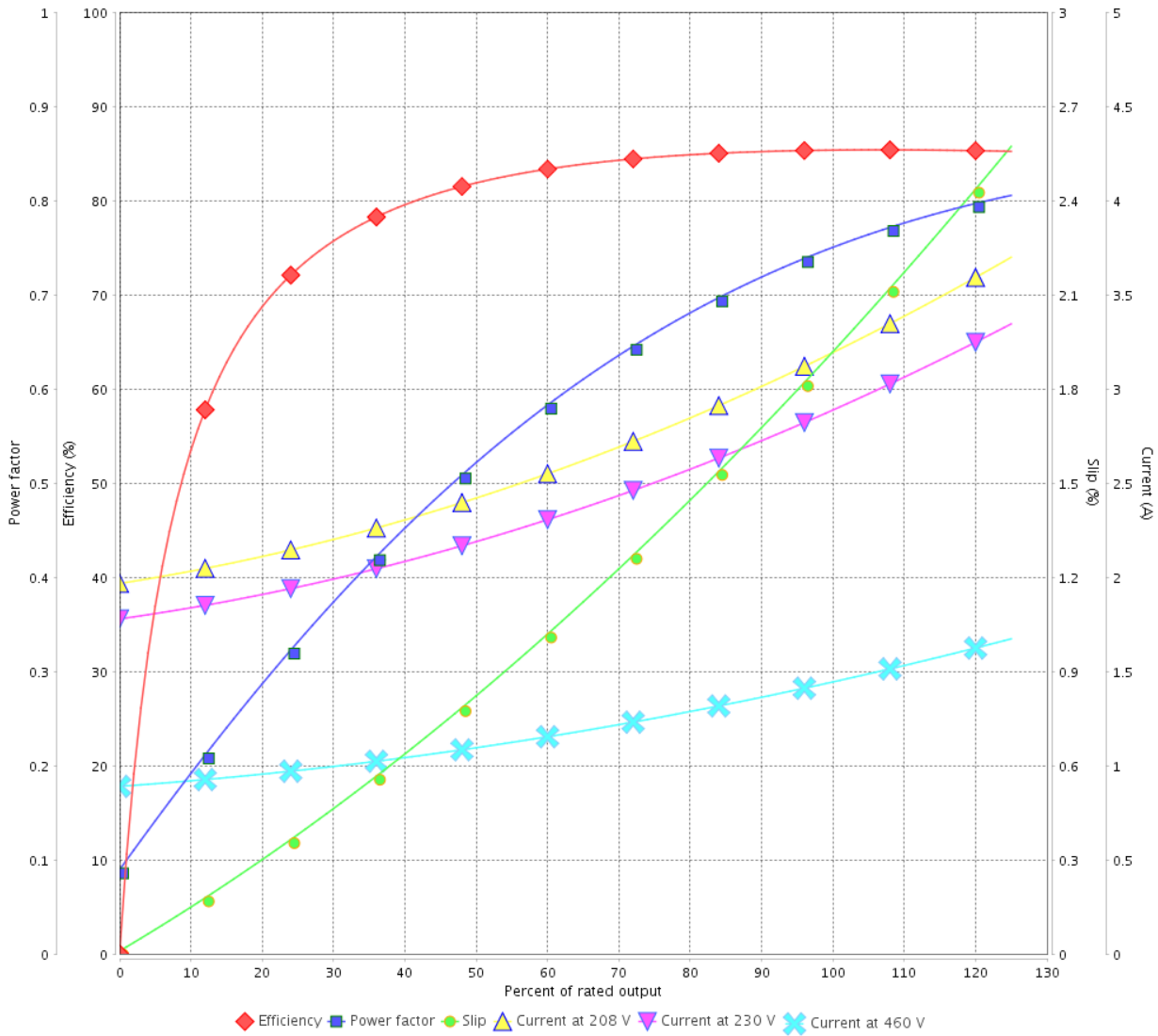
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675359

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 2.94/1.47 A  
 LRC : 8.6  
 Rated torque : 0.411 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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

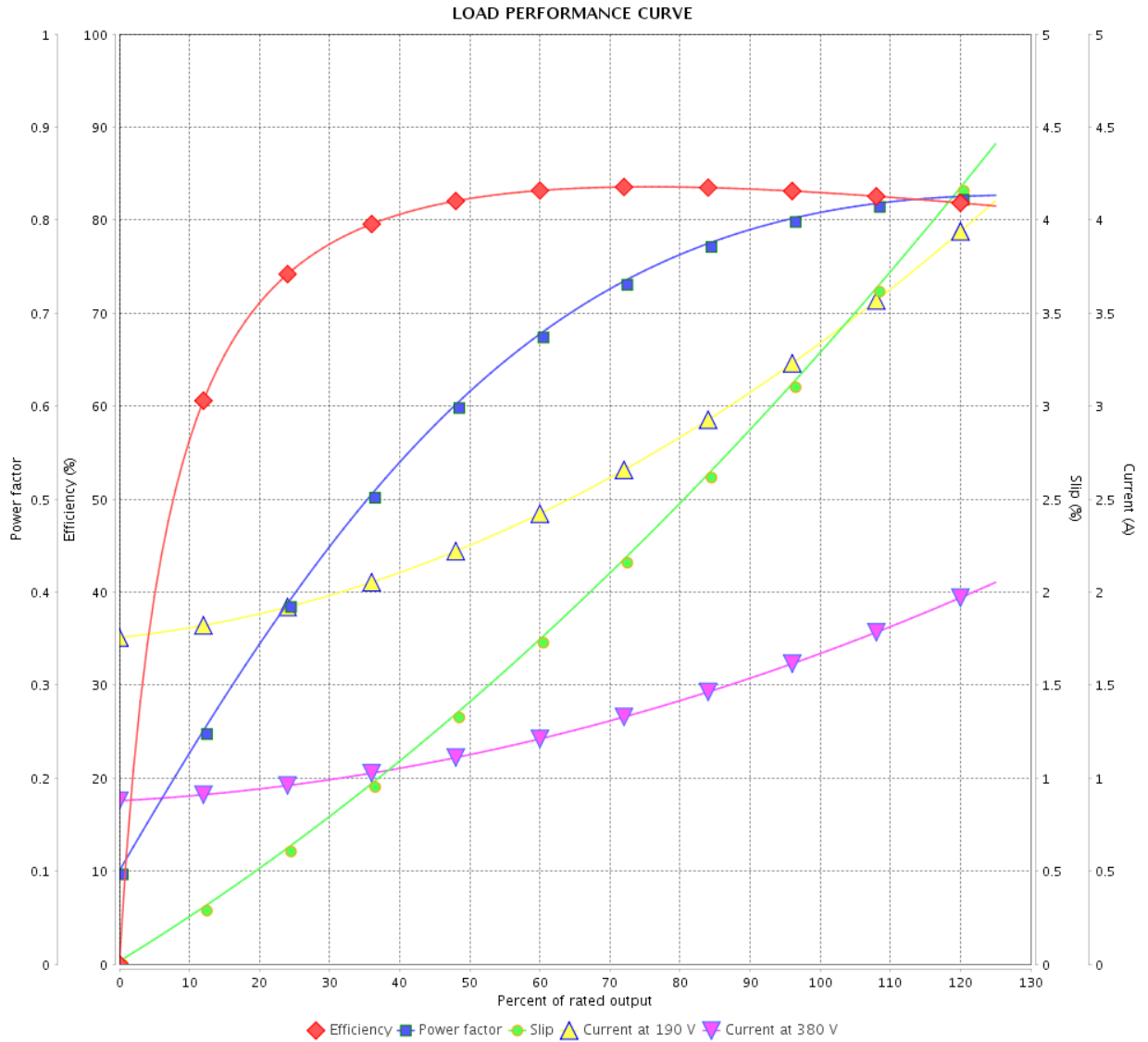
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675359



Performance : 190/380 V 50 Hz 4P

Rated current : 3.40/1.70 A  
 LRC : 6.5  
 Rated torque : 0.501 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 270 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 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

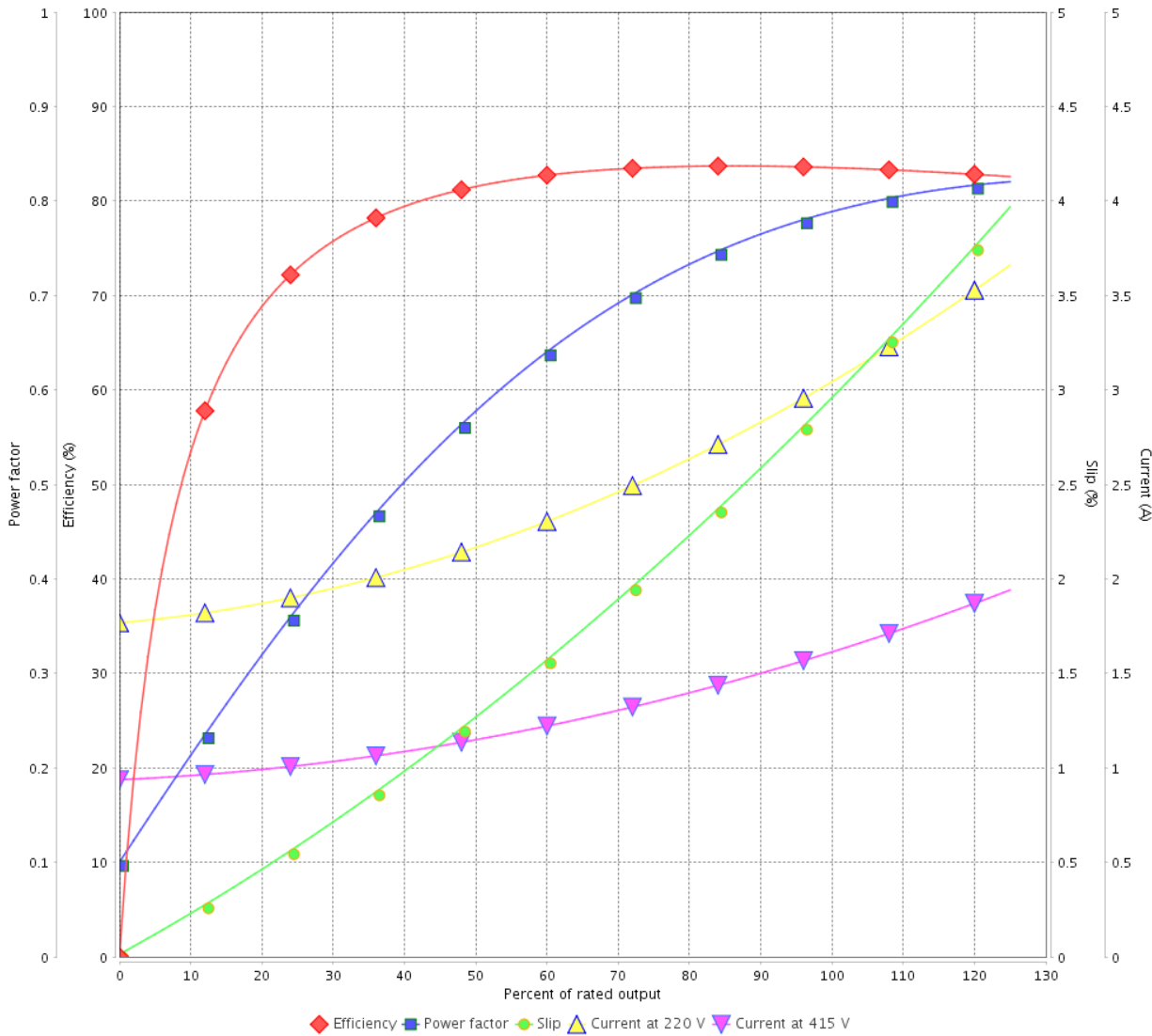
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675359

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 3.09/1.64 A  
 LRC : 7.1  
 Rated torque : 0.499 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0052 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				