

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 10023134	
Frame	: 90L/MS		Locked rotor time	: 10s (cold) 6s (hot)	
Output	: 10 HP (7.5 kW)		Temperature rise	: 80 K	
Poles	: 4		Duty cycle	: S1	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 208-230/460 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 32.5-29.4/14.7 A		Protection degree	: IP54	
L. R. Amperes	: 276-250/125 A		Cooling method	: IC411 - TEFC	
LRC	: 8.5		Mounting	: B3R(D)	
No load current	: 18.0-16.3/8.13 A		Rotation <sup>1</sup>	: CCW	
Rated speed	: 1715 rpm		Noise level <sup>2</sup>	: 55.0 dB(A)	
Slip	: 4.72 %		Starting method	: Direct On Line	
Rated torque	: 4.23 kgfm		Approx. weight <sup>3</sup>	: 82.5 kg	
Locked rotor torque	: 459 %				
Breakdown torque	: 450 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0168 kgm <sup>2</sup>				
Design	: N				
Output	25%	50%	75%	100%	
Efficiency (%)	84.1	84.5	85.5	85.5	
Power Factor	0.31	0.54	0.67	0.75	
Foundation loads					
Max. traction : 434 kgf					
Max. compression : 517 kgf					
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6308 ZZ		6208 ZZ	
Sealing	:	Without Bearing Seal		Without Bearing Seal	
Lubrication interval	:	-		-	
Lubricant amount	:	-		-	
Lubricant type	:	Mobil Polyrex EM			
Notes:					
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	14/01/2024			1 / 2	

# LOAD PERFORMANCE CURVE

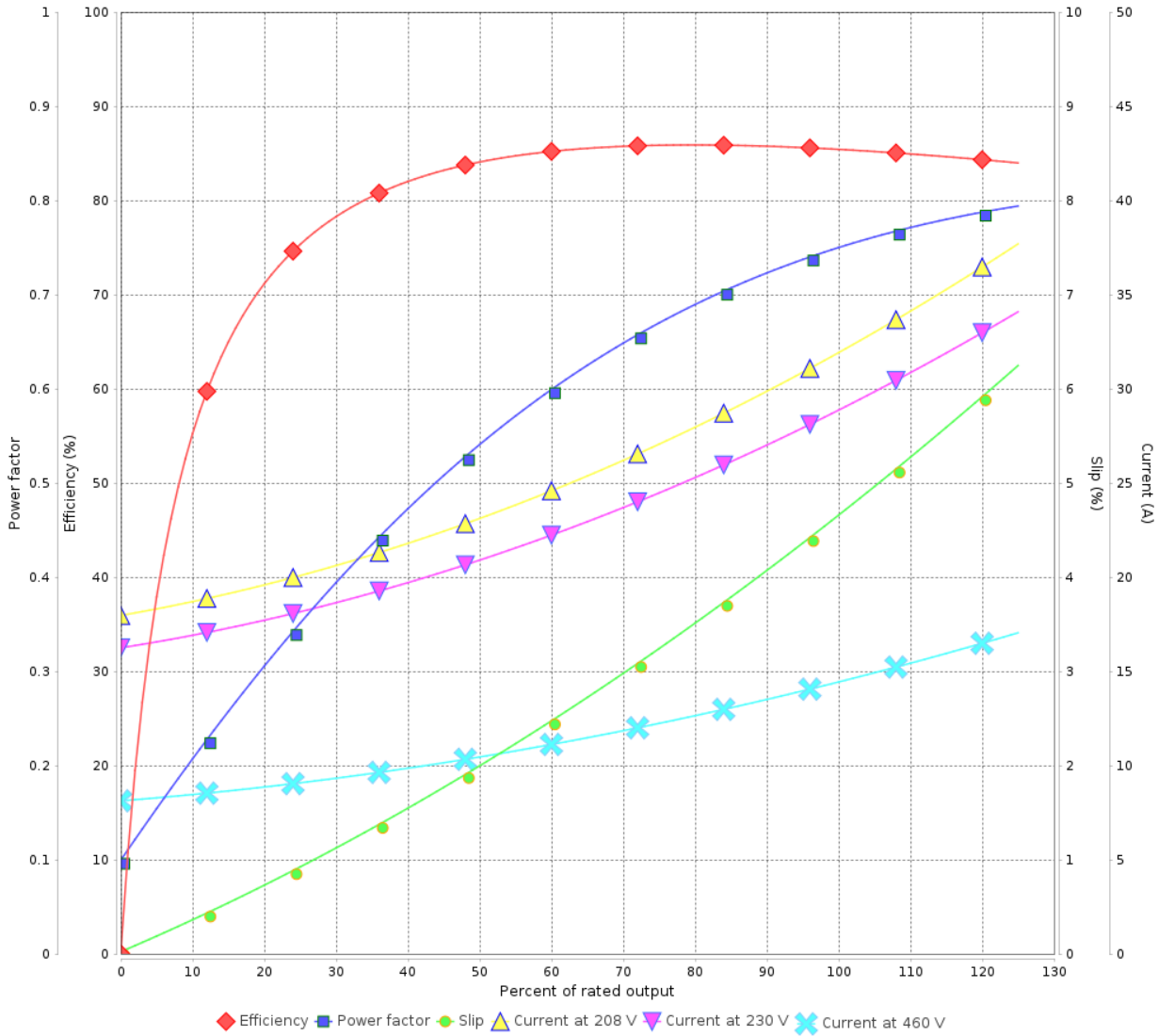
Three Phase Induction Motor - Squirrel Cage



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

Product line : Saw Arbor Motor Standard Efficiency Three-Phase      Product code : 10023134

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 4P

Rated current : 32.5-29.4/14.7 A  
 LRC : 8.5  
 Rated torque : 4.23 kgfm  
 Locked rotor torque : 459 %  
 Breakdown torque : 450 %  
 Rated speed : 1715 rpm

Moment of inertia (J) : 0.0168 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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