### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : Multimounting IE3 Three-Phase Product code: 13984837 Frame : 112M Cooling method : IC411 - TEFC Insulation class Mounting : B3L(E) : F Duty cycle : 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> : 36.5 kg Moment of inertia (J) : 0.0080 kgm<sup>2</sup> Protection degree : IP55 Design : N Output [HP] 5.5 5.5 5.5 Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 460 Rated current [A] 7.83 7.49 6.67 L. R. Amperes [A] 60.3 63.7 63.4 LRC [A] 7.7 8.5 9.5 No load current [A] 2.80 2.90 3.30 Rated speed [RPM] 3515 2890 2910 Slip [%] 3.67 3.00 2.36 Rated torque [kgfm] 1.38 1.37 1.13 Locked rotor torque [%] 229 280 280 Breakdown torque [%] 440 310 380 1.25 Service factor 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 28s (cold) 16s (hot) Noise level<sup>2</sup> 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 88.0 87.5 85.5 Efficiency (%) 75% 88.2 0.88 87.5 100% 88.2 88.4 88.5 25% 0.73 0.65 0.67 50% Power Factor 75% 0.83 0.77 0.79 100% 0.88 0.84 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.6 12.4 12.3 P2 (0,5;1,0) 9.9 9.7 9.6 P3 (0,25;1,0) 9.6 9.5 9.4 Losses (%) P4 (0,9;0,5) 7.3 7.1 7.0 P5 (0,5;0,5) 4.5 4.4 4.4 3.3 P6 (0,5;0,25) 3.2 3.2 P7 (0,25;0,25) 2.2 2.1 Drive end Non drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 86 kgf Max traction V'Ring V'Ring Sealing : 123 kgf Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 14/07/2025 1/5 Date

# DATA SHEET

Checked by

Date

14/07/2025



Three Pha	se Induction	n Motor - Squirrel Ca	ige		
Customer	:				
Notes		EST VERS			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					

Page

2/5

Revision

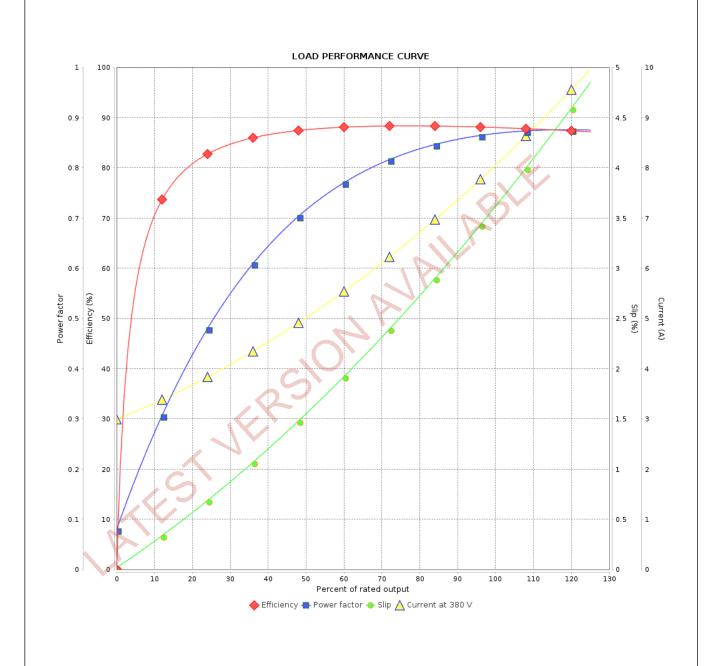
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13984837



Performance	: 380 V 50 Hz 2P				
Rated current	: 7.83 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 7.7	Duty cycle		: S1	
Rated torque	: 1.38 kgfm	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 310 %	Temperature rise Design		: 80 K	
Rated speed	: 2890 rpm			: N	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

3/5

14/07/2025

Date

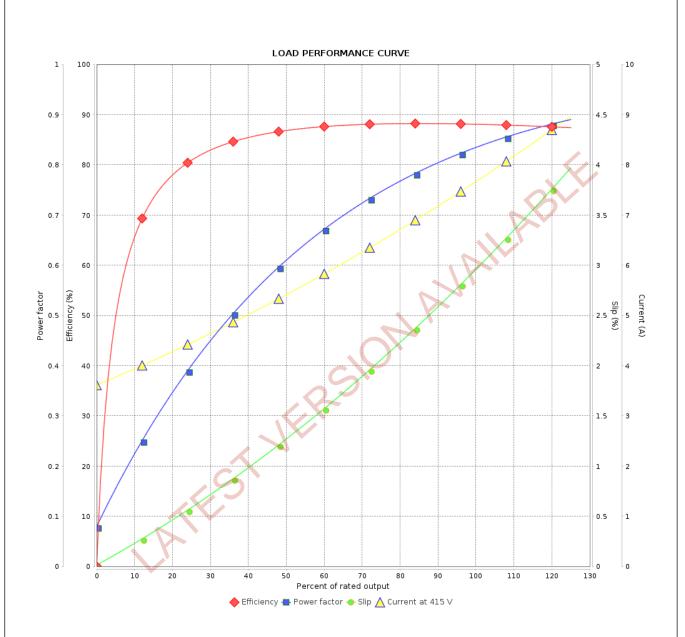
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Product line : Multimounting IE3 Three-Phase Product code : 13984837



Performance	: 415 V 50 Hz 2P				
Rated current	: 7.49 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 8.5	Duty cycle		: S1	
Rated torque	: 1.37 kgfm	Insulation class		: F	
Locked rotor torque	: 280 %	Service factor Temperature rise Design		: 1.25 : 80 K	
Breakdown torque	: 380 %				
Rated speed	: 2910 rpm			: N	
Rev.	Changes Summary		Performed	Checked	Date
	T				
Performed by					
Checked by				Page	Revision

4/5

14/07/2025

Date

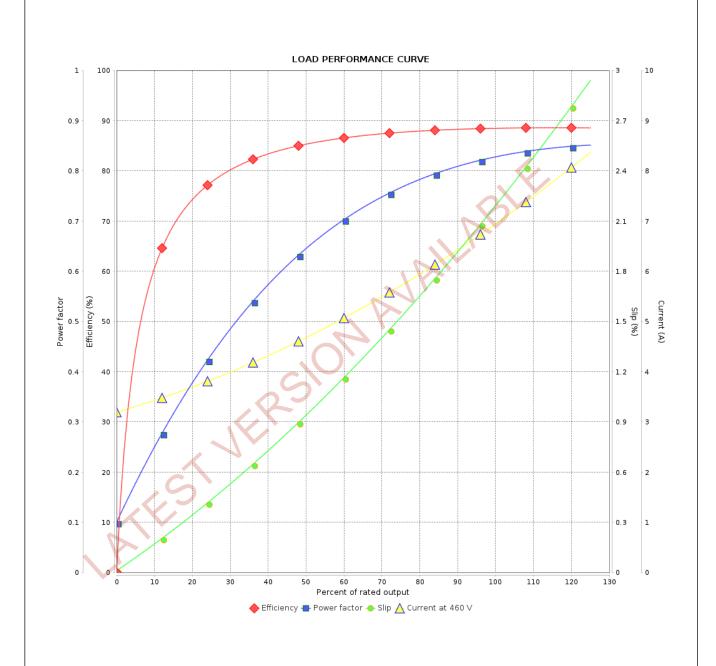
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13984837



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.67 A : 9.5 : 1.13 kgfm : 280 % : 440 % : 3515 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0080 kgm² : S1 : F : 1.25 : 80 K : N	
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

5/5

14/07/2025

Date