

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase Product code : 11793817

Frame	: 100L	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.22/4.11 A	Protection degree	: IP55
L. R. Amperes	: 75.6/37.8 A	Cooling method	: IC411 - TEFC
LRC	: 9.2	Mounting	: B3L(E)
No load current	: 4.40/2.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level <sup>2</sup>	: 54.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.25 kgfm	Approx. weight <sup>3</sup>	: 28.7 kg
Locked rotor torque	: 380 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0090 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.6	88.2	89.5	Max. traction	: 101 kgf
Power Factor	0.54	0.67	0.75	Max. compression	: 129 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.0	8.9	8.5	6.3	4.2	3.2	2.3

	Drive end	Non drive end
Bearing type	: 6206 ZZ	: 6205 ZZ
Sealing	: V'Ring	: V'Ring
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.

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# LOAD PERFORMANCE CURVE

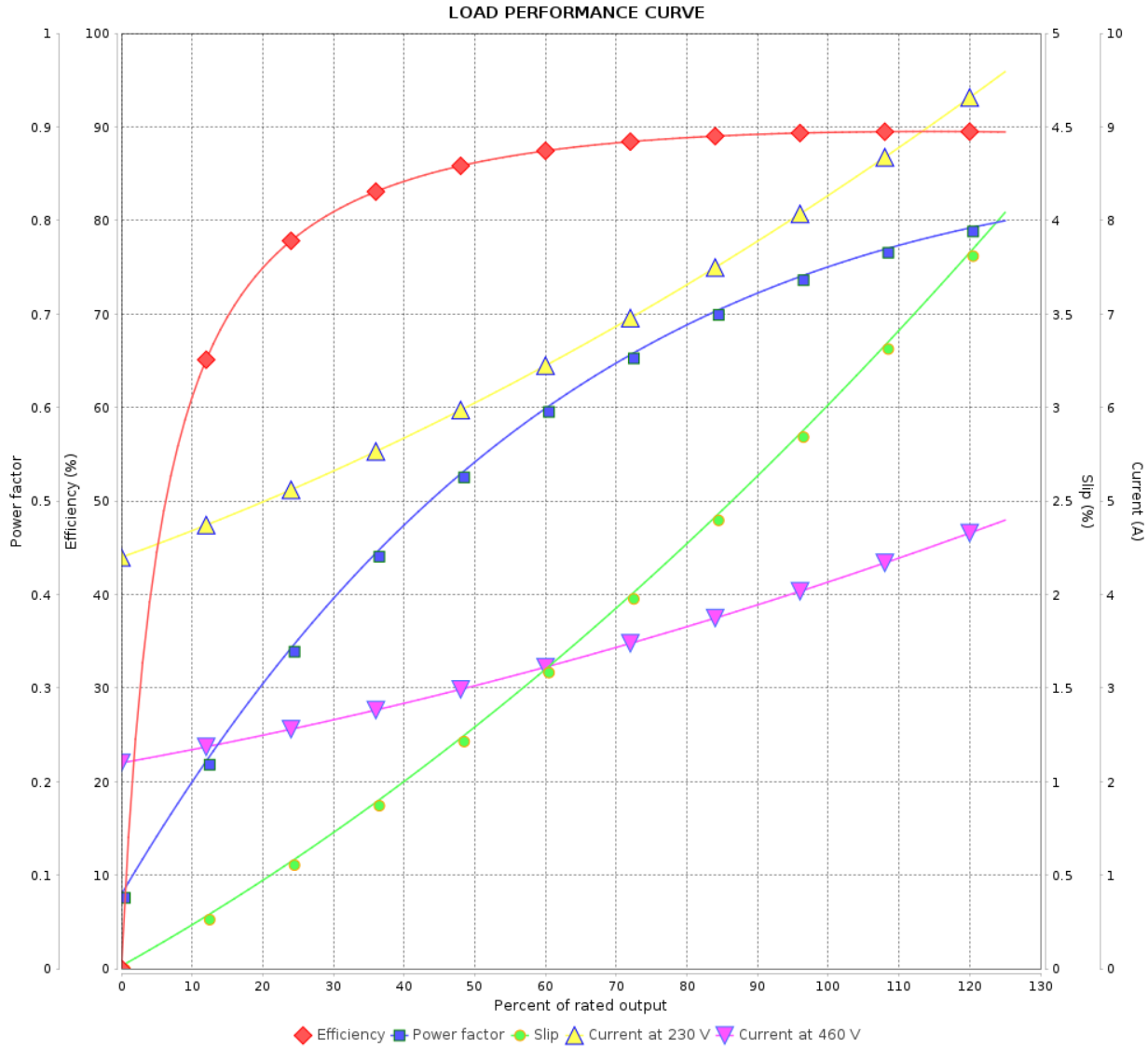
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Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 11793817



Performance : 230/460 V 60 Hz 4P

Rated current : 8.22/4.11 A  
 LRC : 9.2  
 Rated torque : 1.25 kgfm  
 Locked rotor torque : 380 %  
 Breakdown torque : 370 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0090 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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