

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase Product code : 11360540

Frame	: 160M	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 15 kW	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 29.1/16.8 A	Protection degree	: IP55
L. R. Amperes	: 210/121 A	Cooling method	: IC411 - TEFC
LRC	: 7.2	Mounting	: B3T
No load current	: 8.80/5.07 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2930 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 2.33 %	Starting method	: Direct On Line
Rated torque	: 4.99 kgfm	Approx. weight ³	: 118 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0517 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.9	89.8	89.1	Max. traction	: 188 kgf
Power Factor	0.76	0.84	0.88	Max. compression	: 305 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 Z C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
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 IEC 60034-1.

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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

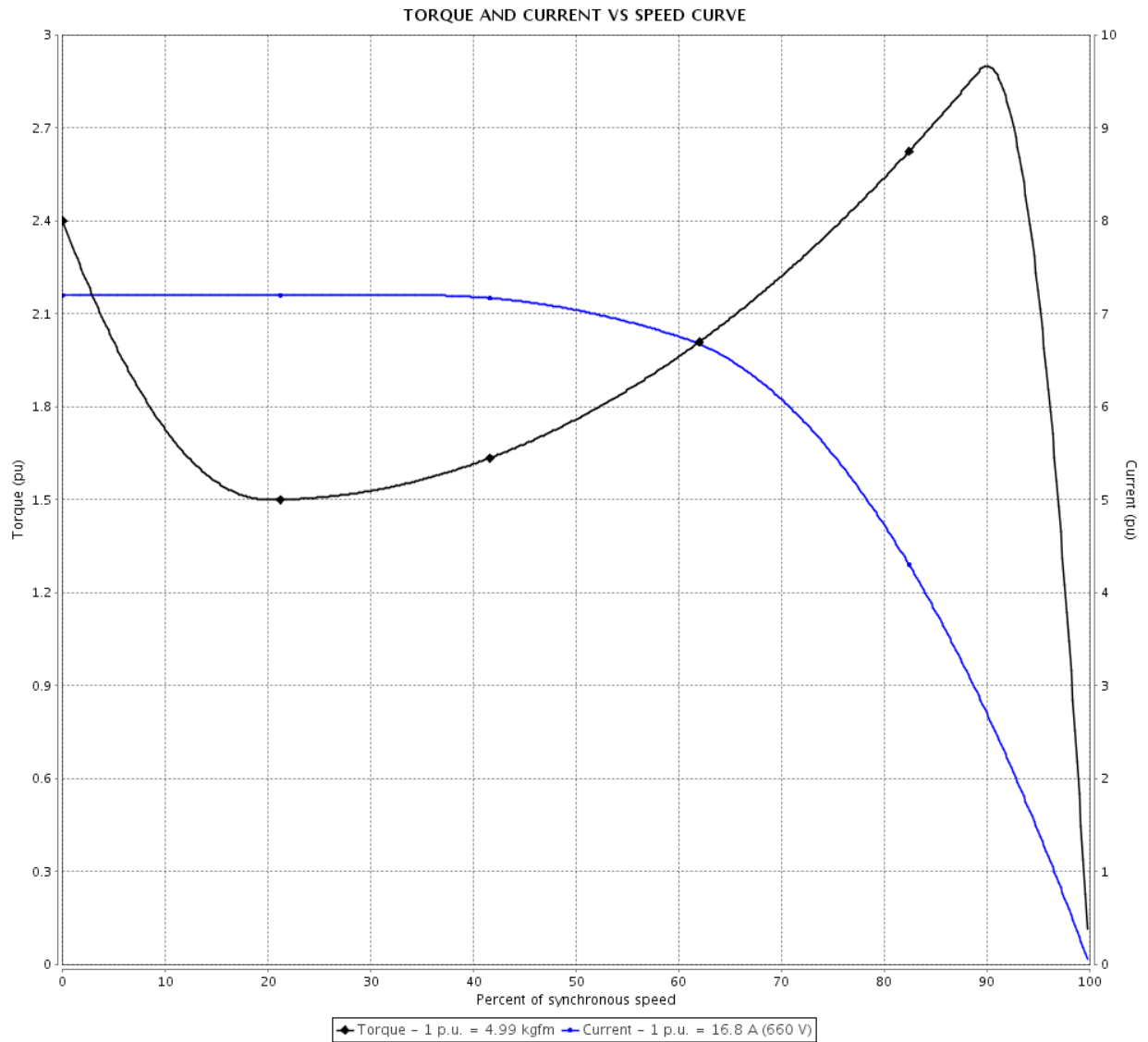
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Customer :

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Product code : 11360540



Performance : 380/660 V 50 Hz 2P

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 Breakdown torque : 290 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.0517 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Locked rotor time : 16s (cold) 9s (hot)

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LOAD PERFORMANCE CURVE

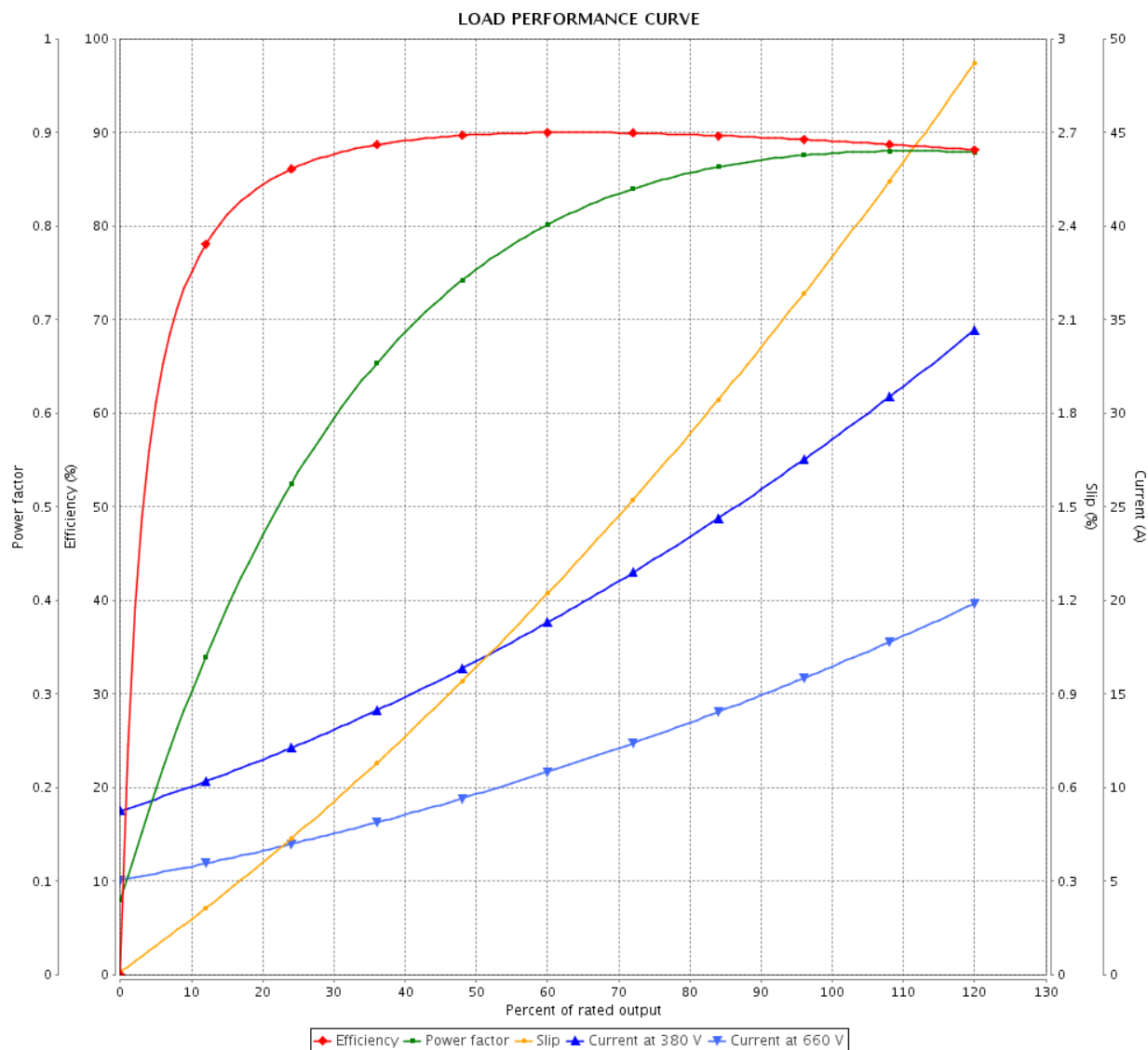
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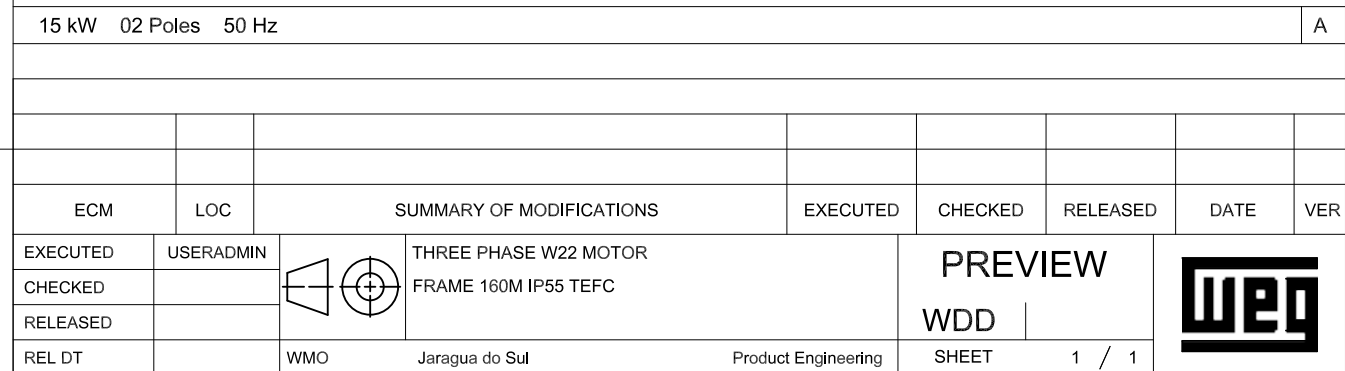
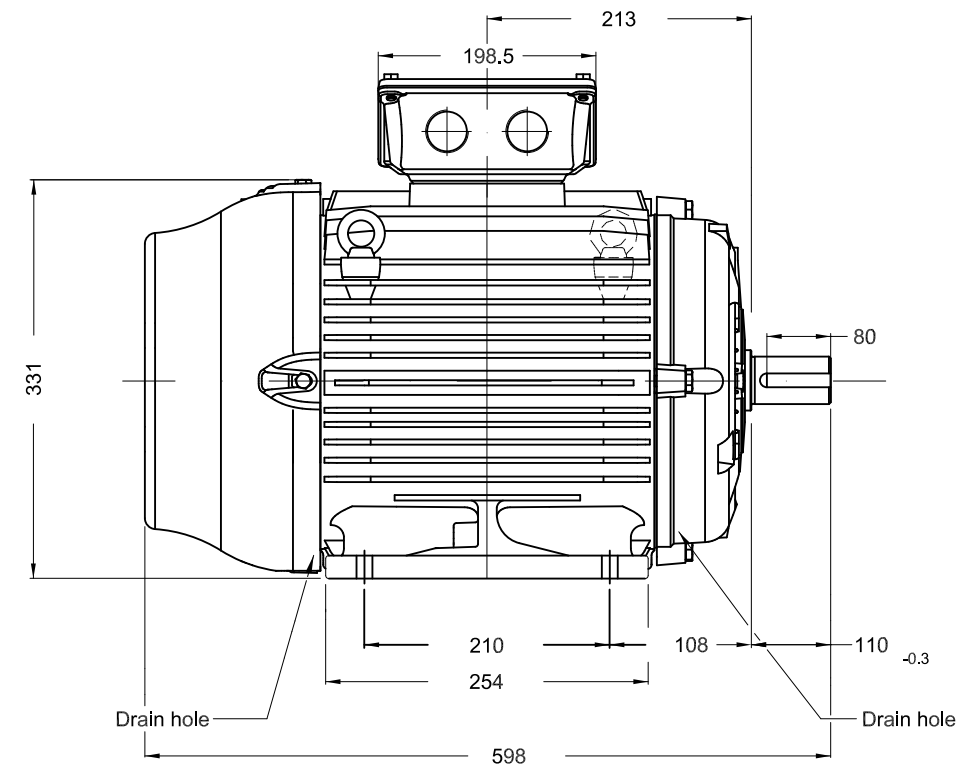


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