

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W22 IE1 Three-Phase		Product code : 11360586
Frame	: 90S	Locked rotor time	: 12s (cold) 7s (hot)	
Output	: 1.1 kW	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: S1	
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 230/400 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 4.45/2.56 A	Protection degree	: IP55	
L. R. Amperes	: 25.8/14.8 A	Cooling method	: IC411 - TEFC	
LRC	: 5.8	Mounting	: B3T	
No load current	: 2.87/1.65 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1450 rpm	Noise level ²	: 49.0 dB(A)	
Slip	: 3.33 %	Starting method	: Direct On Line	
Rated torque	: 0.739 kgfm	Approx. weight ³	: 20.2 kg	
Locked rotor torque	: 180 %			
Breakdown torque	: 240 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.0052 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	72.5	75.5	75.5	Max. traction : 40 kgf
Power Factor	0.60	0.74	0.82	Max. compression : 60 kgf
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6205 ZZ	6204 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 IEC 60034-1.				
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
Date	21/11/2018			
			Page	Revision
			1 / 3	

TORQUE AND CURRENT VS SPEED CURVE

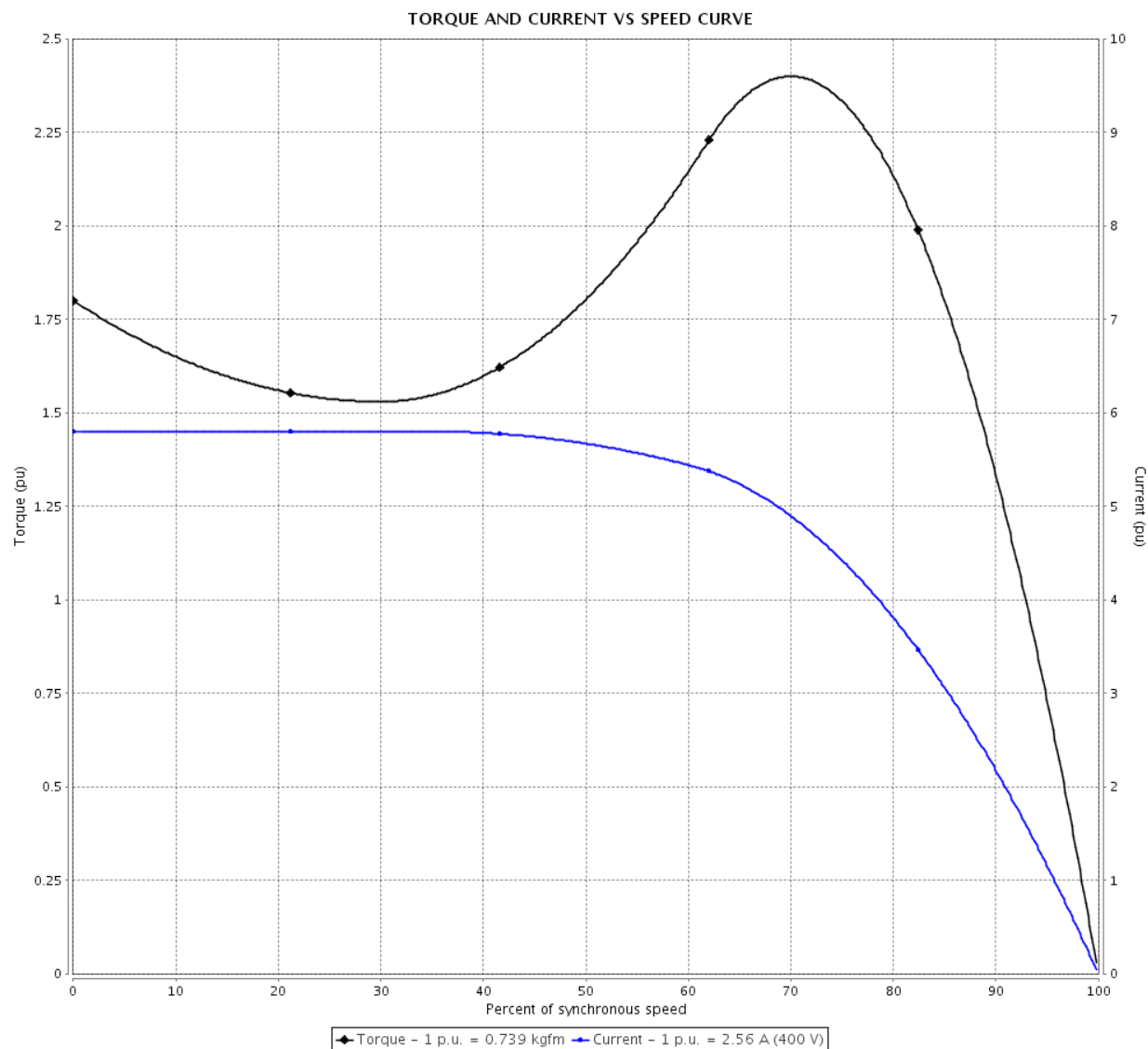
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase

Product code : 11360586



Performance : 230/400 V 50 Hz 4P

Rated current : 4.45/2.56 A
LRC : 5.8
Rated torque : 0.739 kgfm
Locked rotor torque : 180 %
Breakdown torque : 240 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 12s (cold) 7s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 3 Revision		
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LOAD PERFORMANCE CURVE

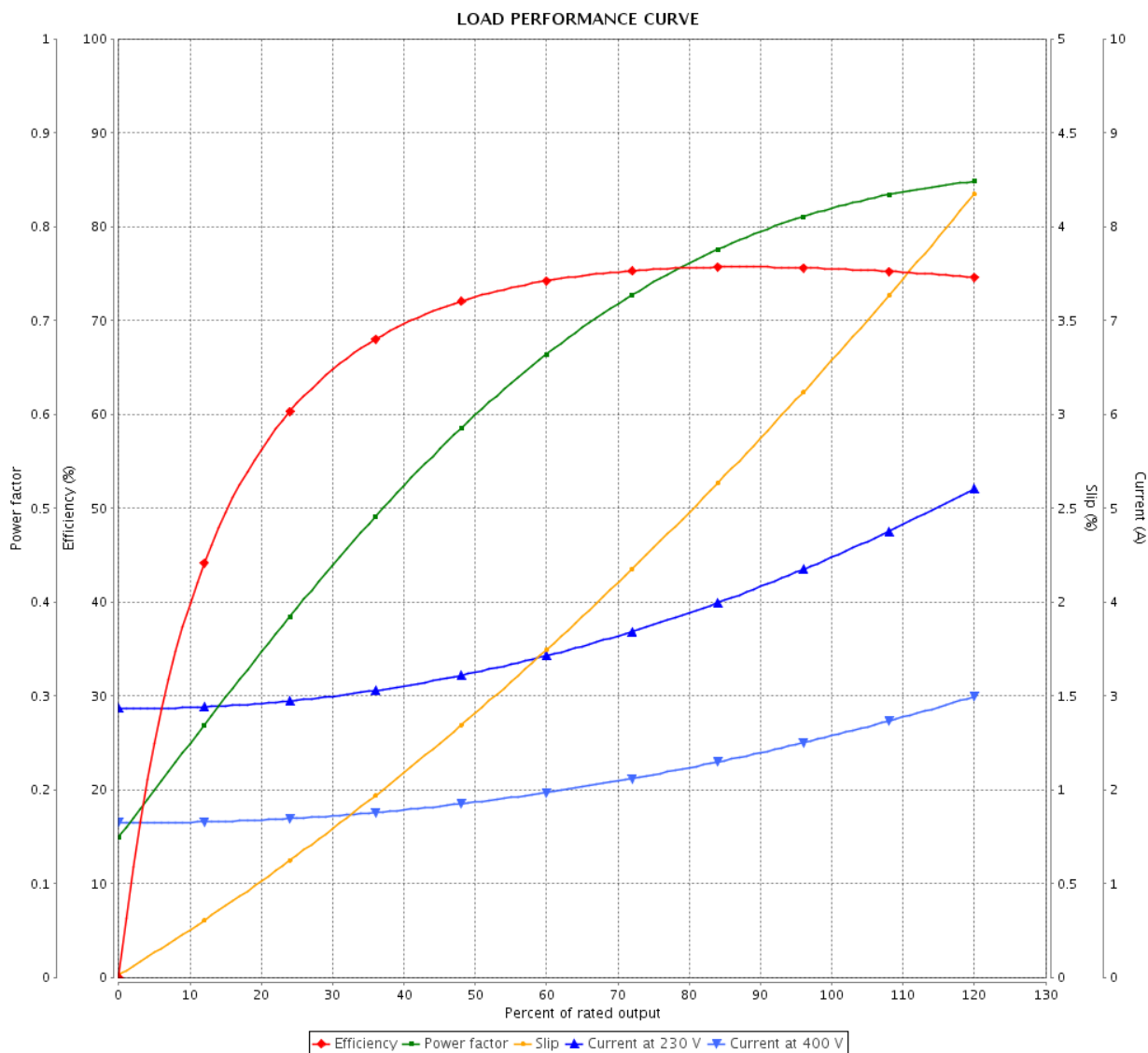
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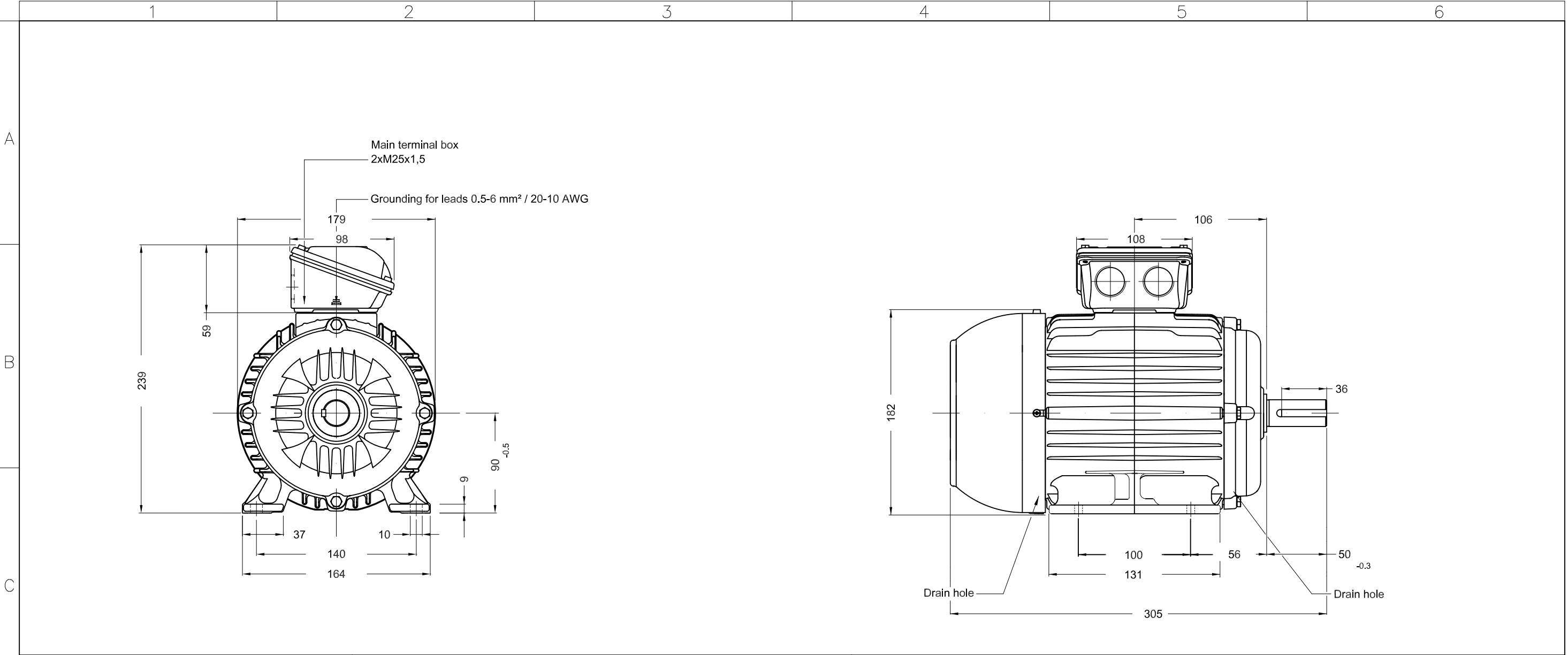


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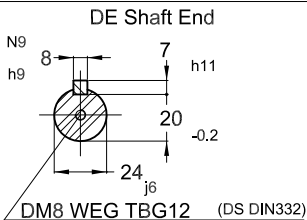
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 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

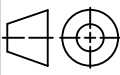
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Performed by		Page 3 / 3Revision		
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Color RAL 5009
Painting plan 207A
Mounting B3T



1.1 kW 04 Poles 50 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 90S IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		