

DATA SHEET

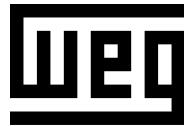
Three Phase Induction Motor - Squirrel Cage



Customer :																								
Product line		: W22 IE3 Three-Phase			Product code :	12862535																		
Frame : 180M			Locked rotor time : 12s (cold) 7s (hot)																					
Output : 18.5 kW (25 HP)			Temperature rise : 80 K																					
Frequency : 50 Hz			Duty cycle : S1																					
Rated voltage : 400/690 V			Ambient temperature : -20°C to +40°C																					
Poles : 4			Altitude : 1000 m.a.s.l.																					
Rated current : 35.6/20.6 A			Protection degree : IP55																					
LRC : 7.9			Cooling method : IC411 - TEFC																					
Rated speed : 1480 rpm			Mounting : B5T																					
Rated torque : 119 Nm			Rotation ¹ : Both (CW and CCW)																					
Insulation class : F			Noise level ² : 61.0 dB(A)																					
Service factor : 1.00			Starting method : Direct On Line																					
Moment of inertia (J) : 0.1740 kgm ²			Approx. weight ³ : 190 kg																					
Design : N																								
Output	50%	75%	100%	Foundation loads																				
Efficiency (%)	91.3	92.3	92.6	Max. traction : 4466 N																				
Power Factor	0.63	0.75	0.81	Max. compression : 6329 N																				
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)																		
7.8	6.8	6.4	3.9	2.8	2.0	1.4																		
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33.33%;"></th><th style="width: 33.33%; text-align: center;">Drive end</th><th style="width: 33.33%; text-align: center;">Non drive end</th></tr> </thead> <tbody> <tr> <td>Bearing type</td><td>6311 ZZ C3</td><td>6211 ZZ C3</td></tr> <tr> <td>Sealing</td><td>Oil Seal</td><td>Lip Seal</td></tr> <tr> <td>Lubrication interval</td><td>-</td><td>-</td></tr> <tr> <td>Lubricant amount</td><td>-</td><td>-</td></tr> <tr> <td>Lubricant type</td><td colspan="2" rowspan="3" style="text-align: center;">00088</td></tr> </tbody> </table>								Drive end	Non drive end	Bearing type	6311 ZZ C3	6211 ZZ C3	Sealing	Oil Seal	Lip Seal	Lubrication interval	-	-	Lubricant amount	-	-	Lubricant type	00088	
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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	Date																		
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Checked by																								
Date	02/02/2026																							

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

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

Rev.

Changes Summary

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Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

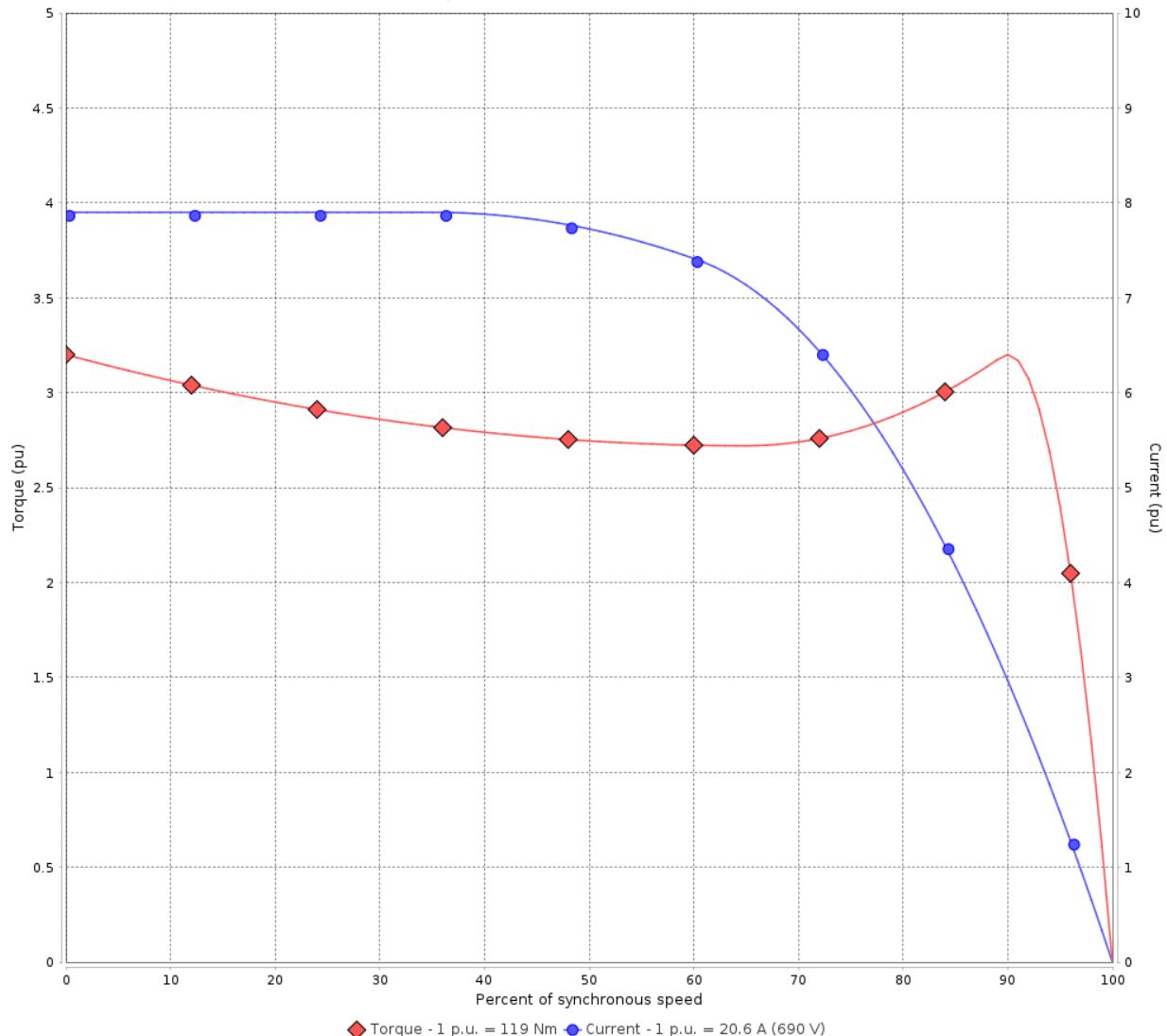


Customer :

Product line : W22 IE3 Three-Phase

Product code : 12862535

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400/690 V 50 Hz 4P

Rated current	: 35.6/20.6 A	Moment of inertia (J)	: 0.1740 kgm ²
LRC	: 7.9	Duty cycle	: S1
Rated torque	: 119 Nm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 320 %	Duty cycle	: S1
Rated speed	: 1480 rpm		

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



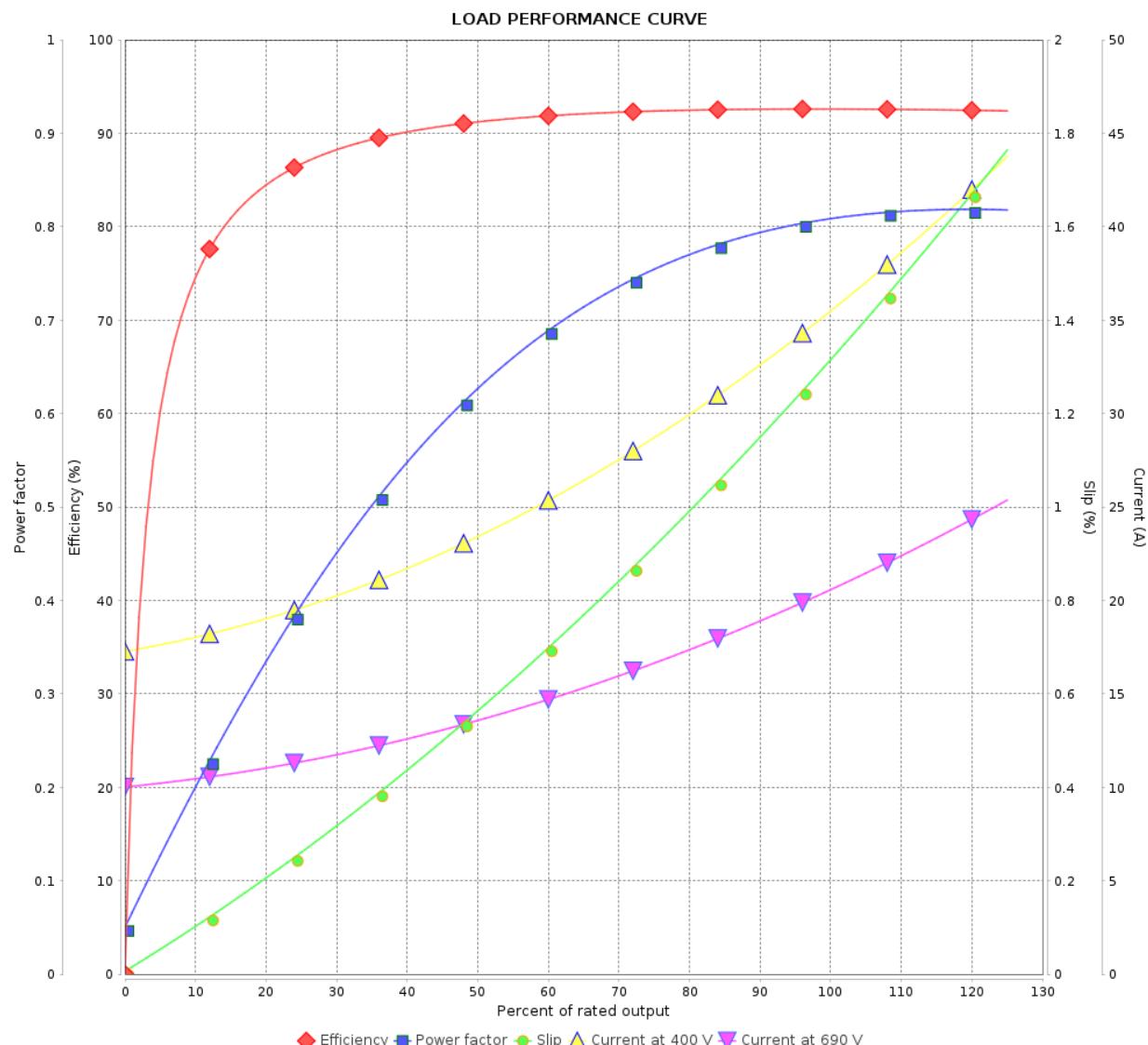
Customer :

Product line

: W22 IE3 Three-Phase

Product code :

12862535



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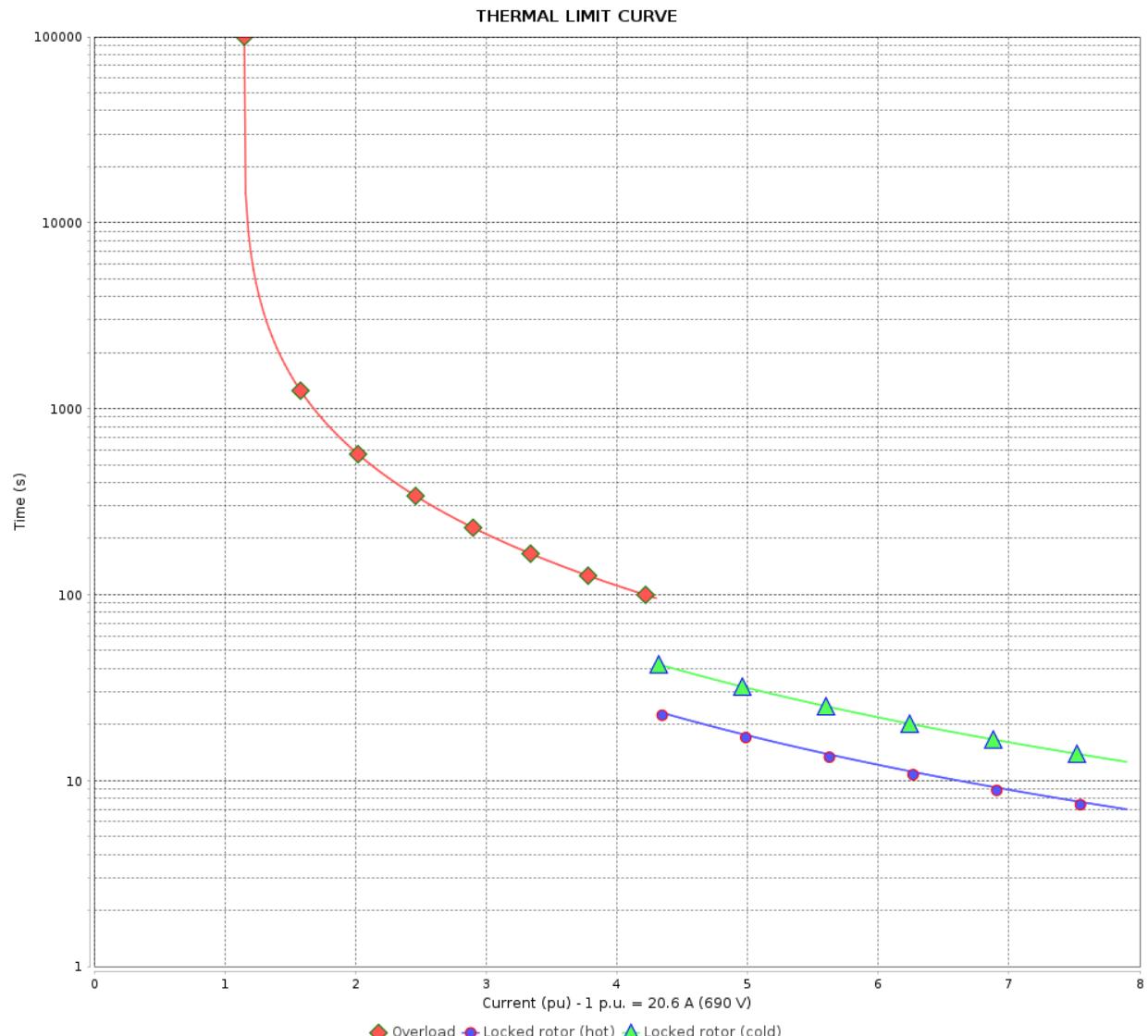
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862535



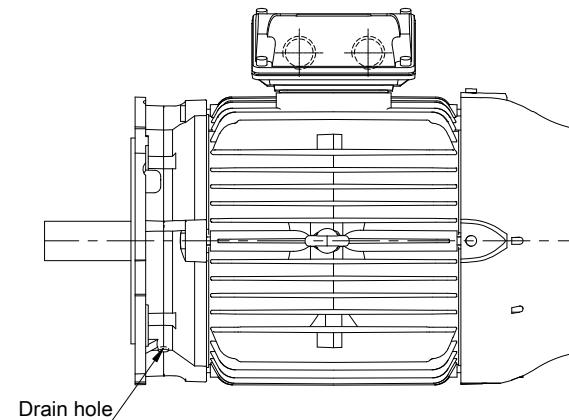
Heating constant

Cooling constant

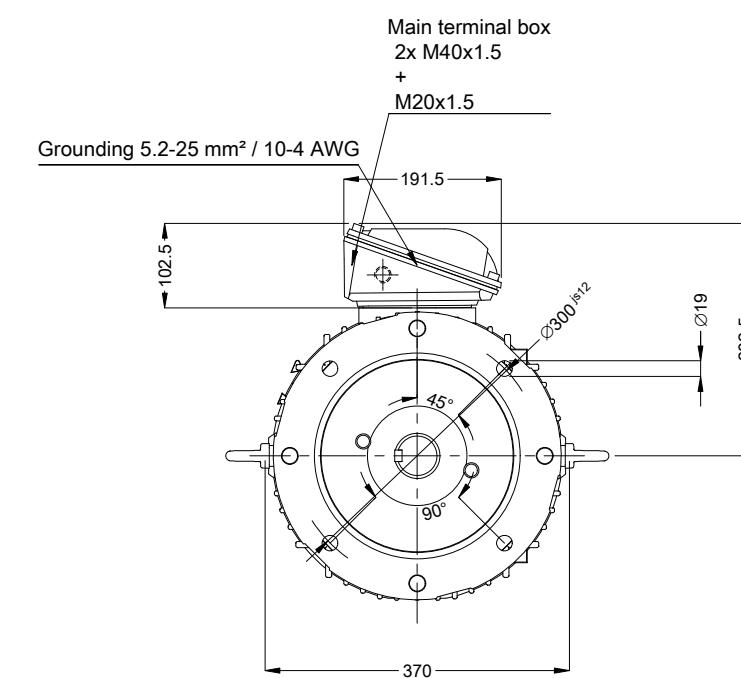
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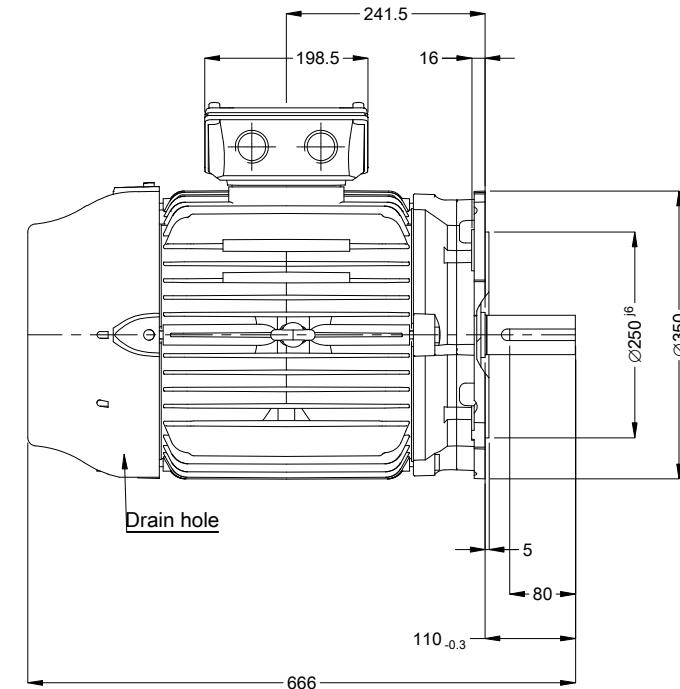
A



B



C



D

E

18.5 kW 04 Poles 50 Hz

Dimensions in mm

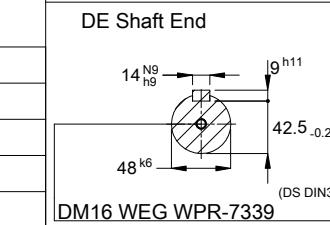
Without vertical jackscrews

Sealing - oil seal ring

Color RAL 5009

Painting plan 203A

Mounting B5T



HYBRISUSER EXECUTED CHECKED RELEASED DATE VER

LOC HYBRISUSER THREE PH. MOTOR W22 IE3

RELEASED FRAME 180M IP55 TEFC

REL. DATE

PREVIEW			
WDD	00	SHEET	1 / 1