DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: THE INVERTER DRIVE SUPERMARKET LTD
Product line	: Special Motor

Frame	: 132M	Locked rotor time	: 28 s (hot) 50 s (cold)
Output	: 5.5 kW	Temperature rise	: 65 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -5 °C to +80 °C
Rated voltage	: 415 V	Altitude	: 1000 m.a.s.l
Rated current	: 12.4 A	Protection degree	: IP55
L. R. Amperes	: 85.4 A	Cooling method	: IC411 - TEFC
LRC	: 6.9	Mounting	: V6T
No load current	: 7.50 A	Rotation[1]	: Both
Rated speed	: 970 rpm	Noise level[2]	: 53.0 dB(A)
Slip	: 3.00 %	Vibration class	: A
Rated torque	: 54.1 Nm	Starting method	: Direct On Line
Locked rotor torque	: 270 %	Coupling	: Direct
Pull up torque	: 255 %	Approx. weight[3]	: 86.2 kg
Breakdown torque	: 280 %	Painting plan	: 207A
Insulation class	: H	Color	: RAL 5009
Service factor	: 1.00	Design	: N
Moment of inertia (J)	: 0.0600 kgm²		

Output	50%	75%	100%
Efficiency (%)	86.5	87.8	88.0
Power Factor	0.49	0.62	0.70

	Load type	: -
	Load torque	: -
	Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6308-C3	6207-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	KRYTOX GPL 225	

Foundation loads	
Max. traction	:
Max. compression	:

Notes

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)
13.1	11.1	10.8	7.3	5.4	4.1	3.2

Standards				
	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Test	: IEC 60034-2	Tolerance	: IEC 60034-1
	Noise	: IEC 60034-9		

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 be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary	Rev.	Checked	Date

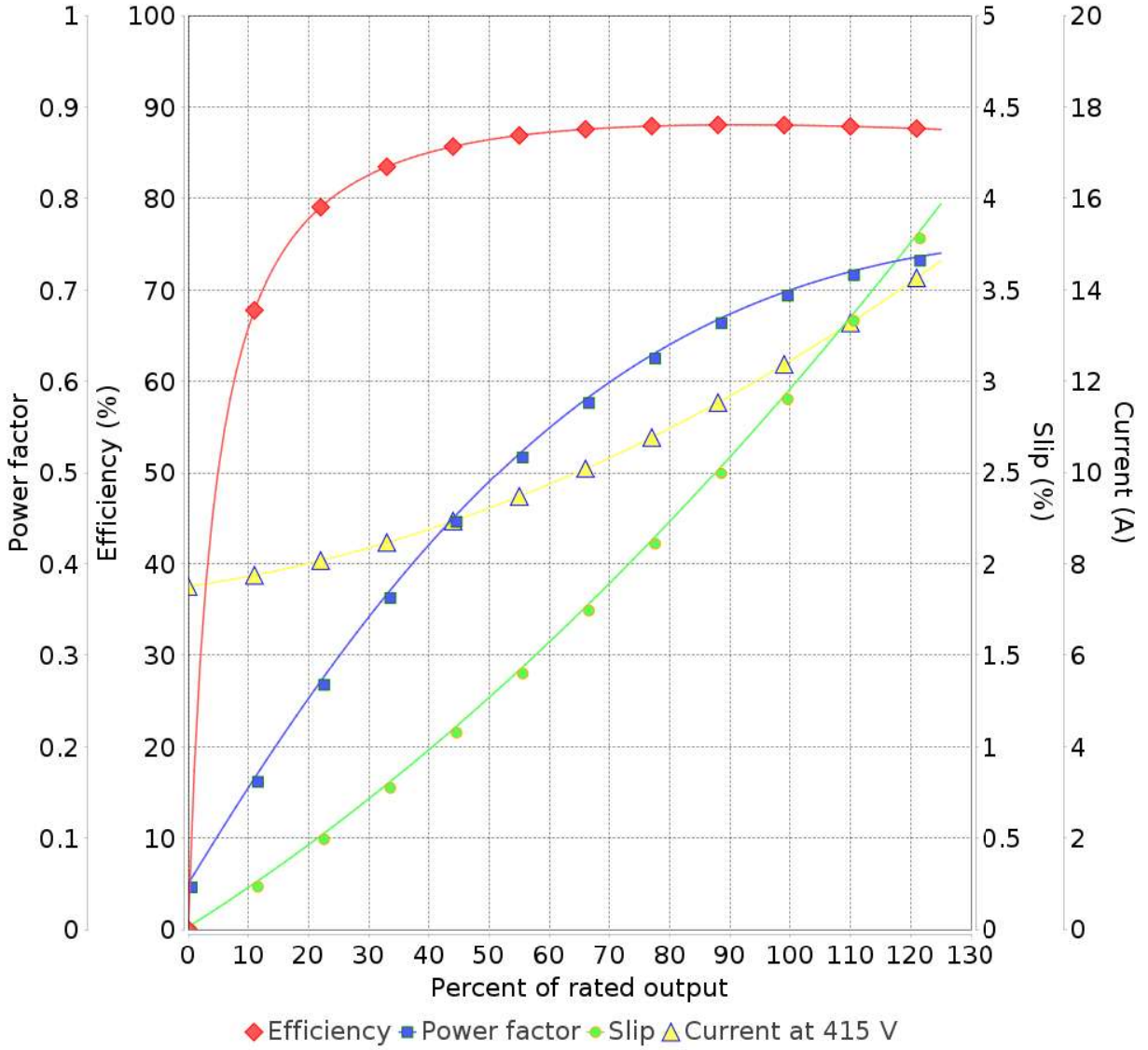
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	: THE INVERTER DRIVE SUPERMARKET LTD
Product line	: Special Motor



Performance	: 5.5 kW 415 V 50 Hz 6P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0600 kgm²
LRC	: 6.9	Duty cycle	: S1
Rated torque	: 54.1 Nm	Insulation class	: H
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 65 K
Rated speed	: 970 rpm	Design	: N

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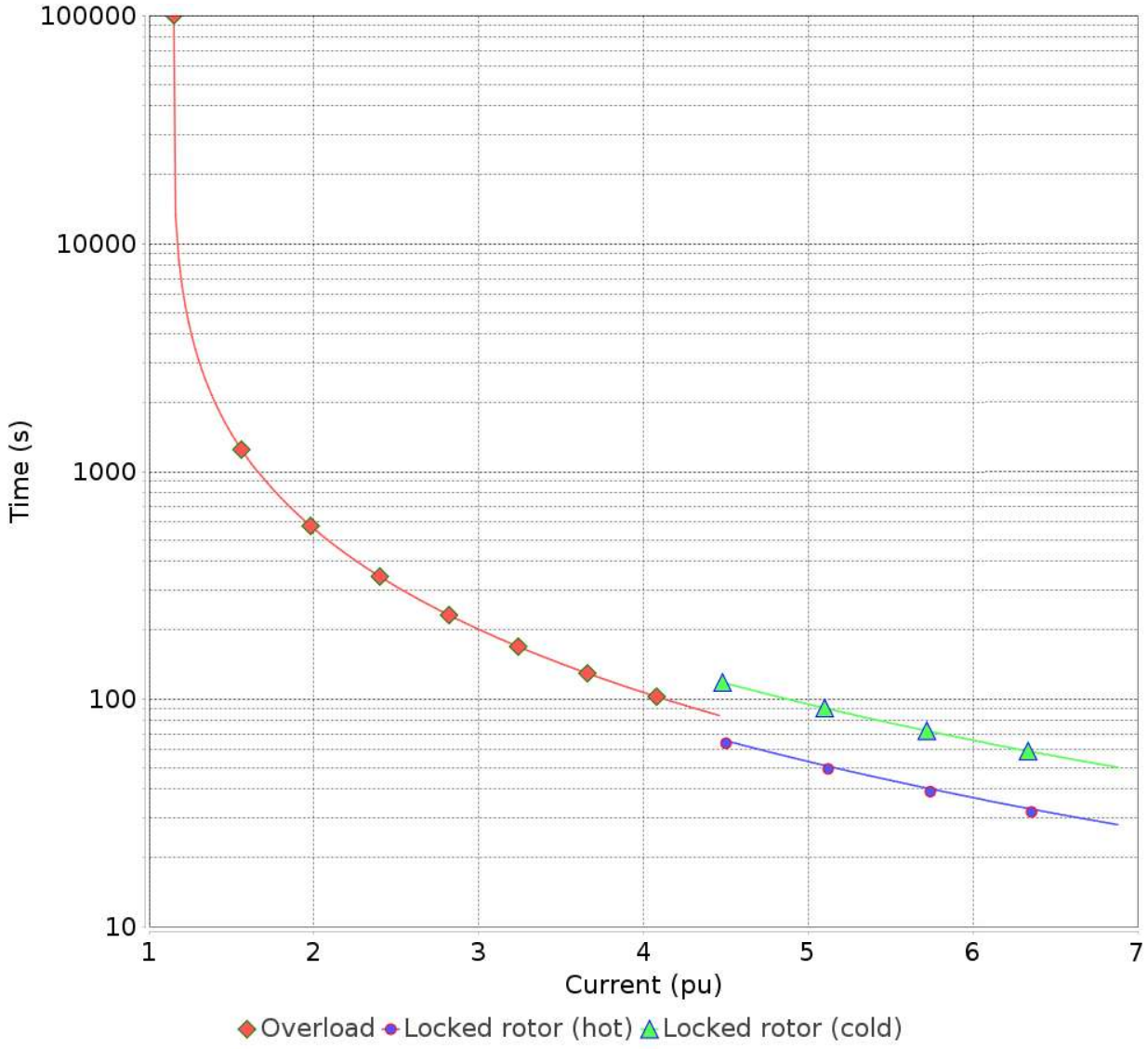
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	: THE INVERTER DRIVE SUPERMARKET LTD
Product line	: Special Motor



Performance	: 5.5 kW 415 V 50 Hz 6P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0600 kgm²
LRC	: 6.9	Duty cycle	: S1
Rated torque	: 54.1 Nm	Insulation class	: H
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 65 K
Rated speed	: 970 rpm	Design	: N
Heating constant	: 27.2 min		
Cooling constant	: 81.6 min		

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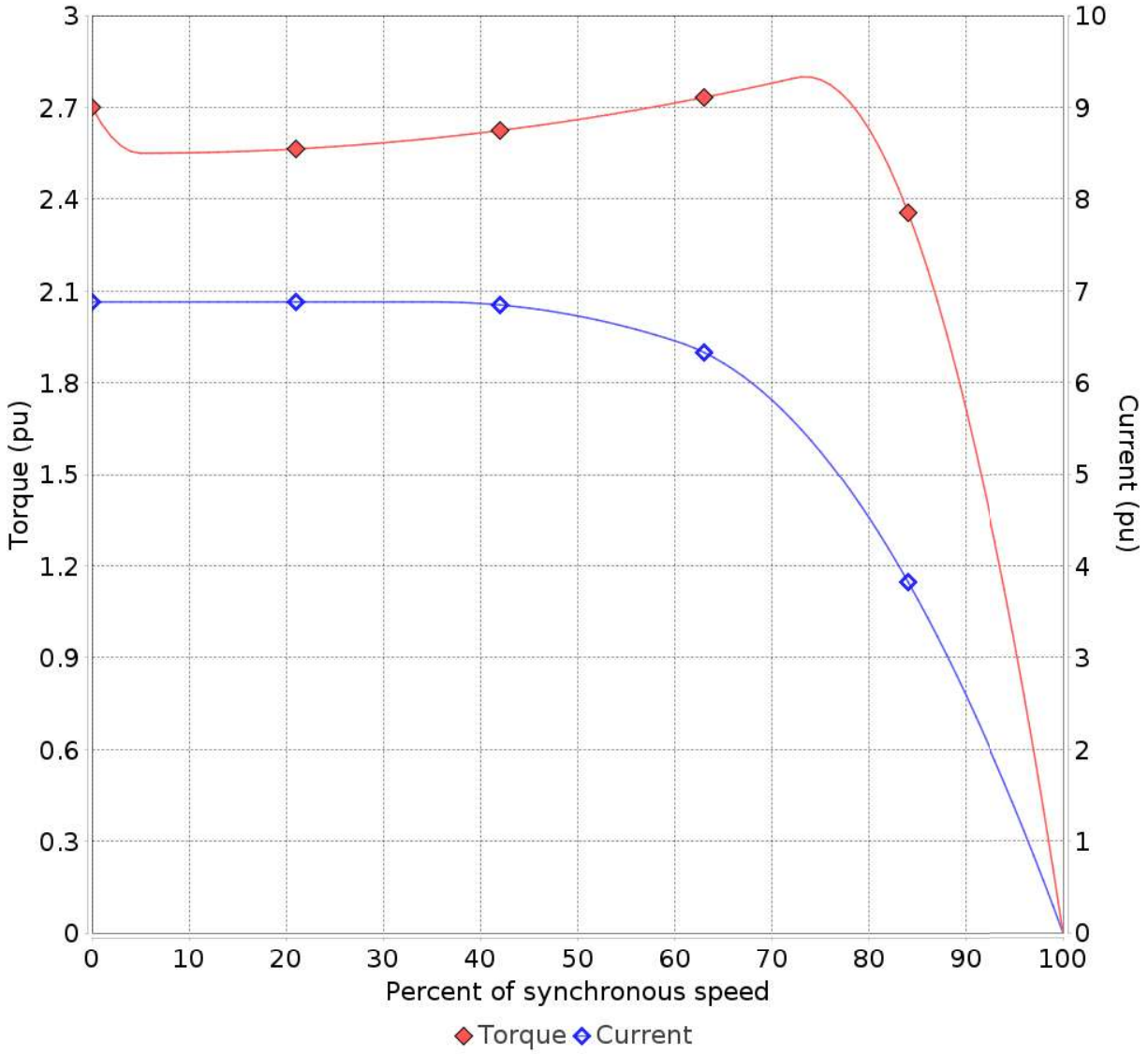
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	: THE INVERTER DRIVE SUPERMARKET LTD
Product line	: Special Motor



Performance	: 5.5 kW 415 V 50 Hz 6P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0600 kgm²
LRC	: 6.9	Duty cycle	: S1
Rated torque	: 54.1 Nm	Insulation class	: H
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 65 K
Rated speed	: 970 rpm	Design	: N

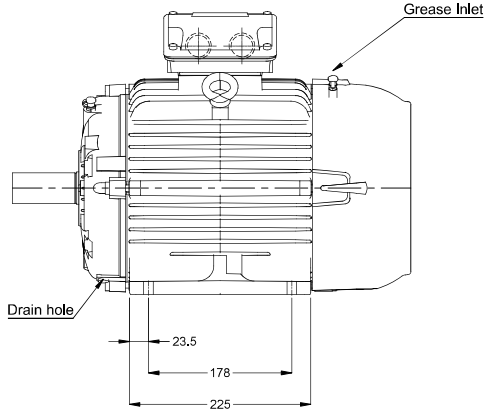
Locked rotor time 100%	: 28 s (hot) 50 s (cold)
Load inertia (J=GD²/4)	: 0.06 kgm²
Allowable run up time 100%	: 22 s (hot) 40 s (cold)

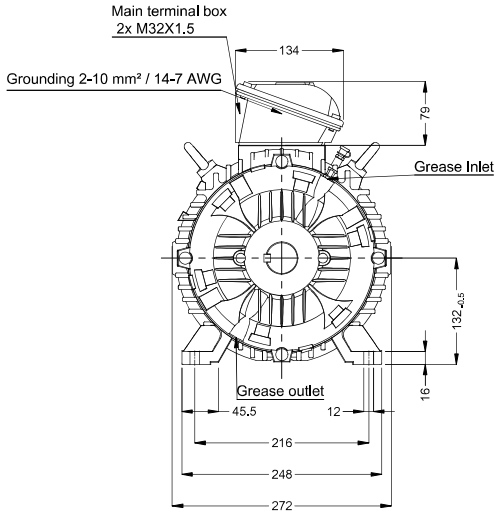
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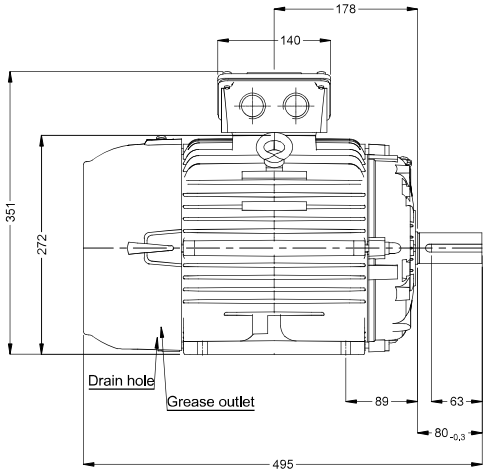
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THIS IS AN UPDATED REVISION. THE PREVIOUS ONE MUST BE DISREGARDED.

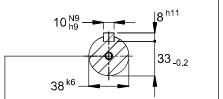






Cast iron fan cover
Grease - Krytox GPL 225
Bearing cap
With grease fitting
Aluminum fan
Color RAL 5009
Painting plan 207A
Mounting V6T

DE Shaft End



DM12 WEG WPR-7339

5.5 kW 06 Poles 50 Hz | A

THE INVERTER DRIVE SUPERMARKET LTD

Scale 2 : 13

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			PIRWBUSER				01

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3
FRAME 132M IP55 TEFC

PREVIEW
WDD 01

WEG REDDITCH [Operational]
SHEET 1 / 1

Dimensions in mm

A3

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