

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase Product code : 15558718

Frame	: 225S/M	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 45 kW (60 HP)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 78.4/45.5 A	Protection degree	: IP56
L. R. Amperes	: 604/350 A	Cooling method	: IC411 - TEFC
LRC	: 7.7	Mounting	: B3T
No load current	: 21.7/14.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2965 rpm	Starting method	: VFD
Slip	: 1.17 %	Approx. weight ³	: 558 kg
Rated torque	: 145 Nm		
Locked rotor torque	: 250 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.2861 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.9	93.5	93.9	94.1	Max. traction	: 2270 N
Power Factor	0.60	0.78	0.85	0.88	Max. compression	: 7744 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)
6.0	4.7	4.4	2.9	1.7	1.0	0.6

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: Viton Oil Seal	Viton Oil Seal
Lubrication interval	: 5000 h	5000 h
Lubricant amount	: 27 g	27 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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In. DAIS-368-04.10.24

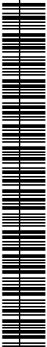
Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V



In. DAIS-1368-04.10.24

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TORQUE AND CURRENT VS SPEED CURVE

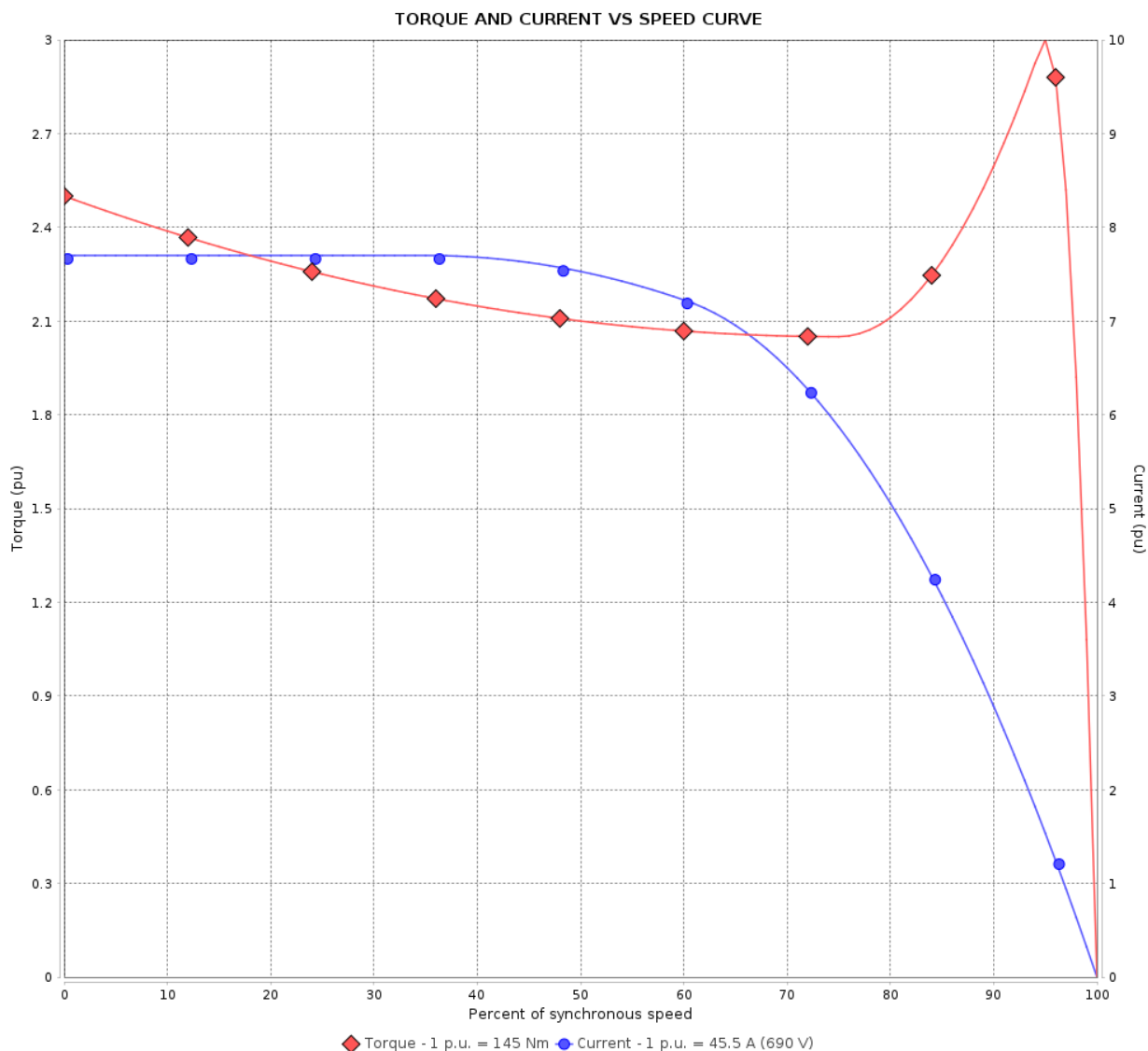
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LOAD PERFORMANCE CURVE

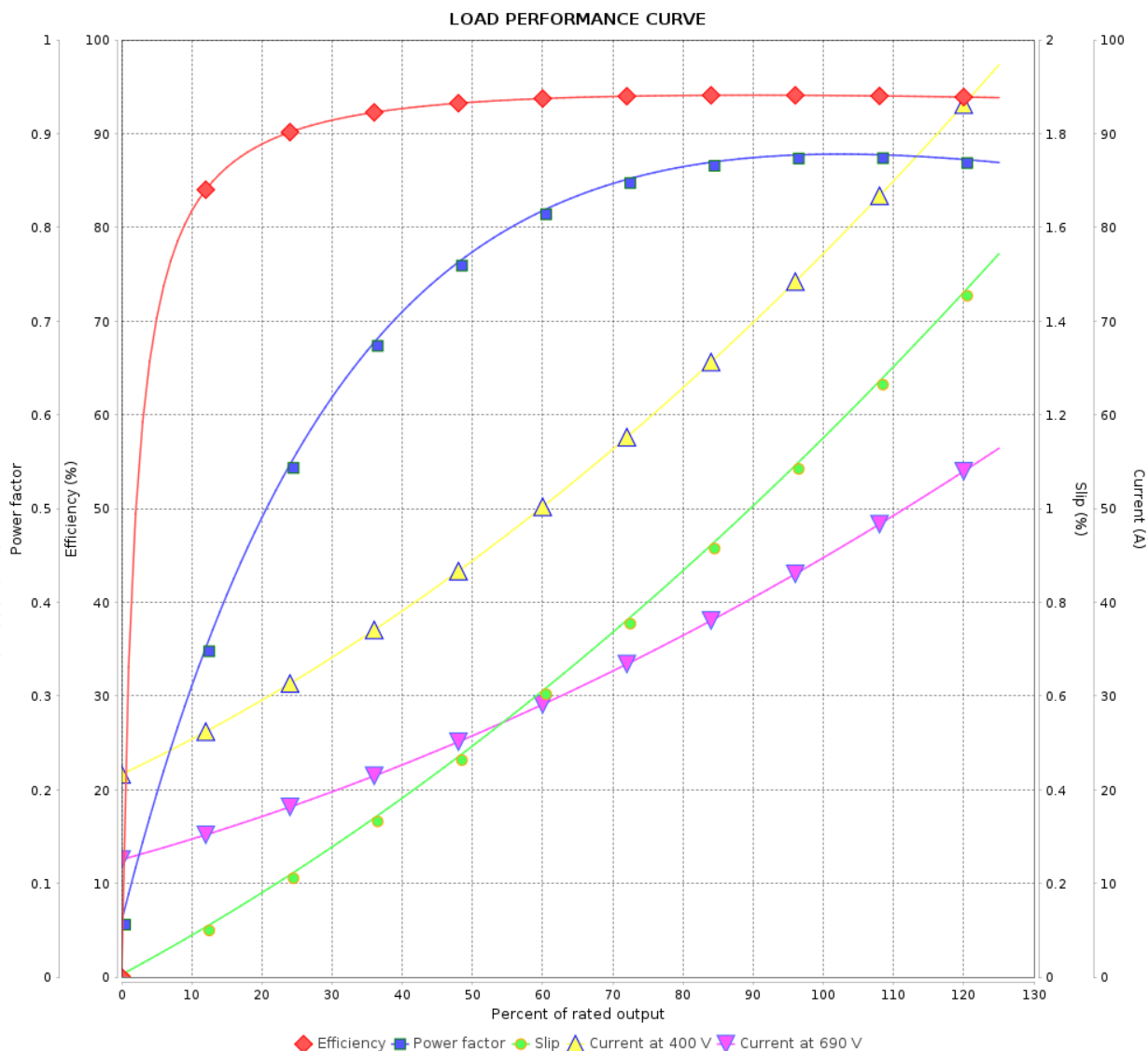
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VFD OPERATION CURVE

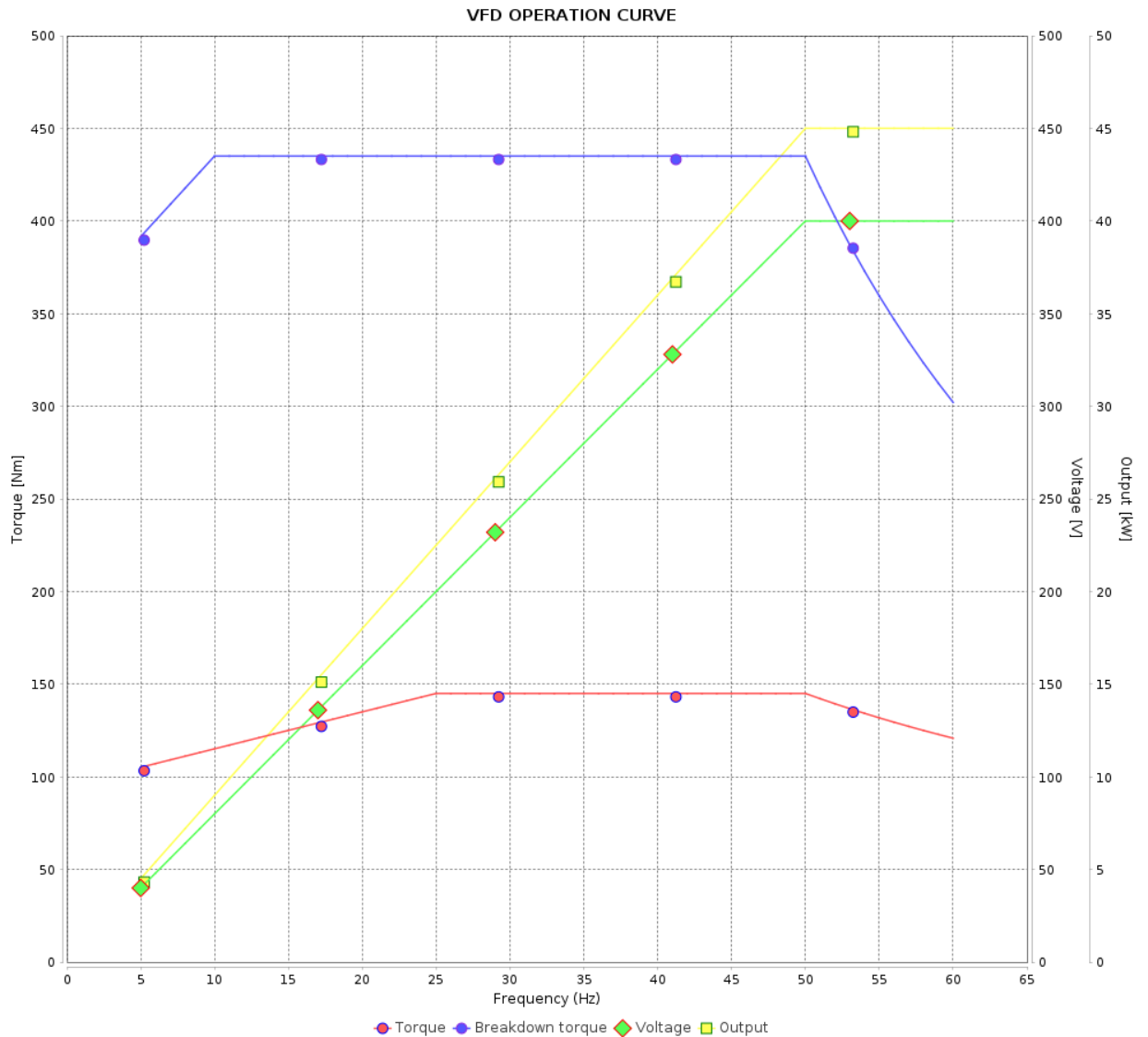
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