

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W12 IE2 Three-Phase

Product code : 16435551

Frame : W63
 Output : 0.12 kW (0.16 HP)
 Poles : 4
 Frequency : 50 Hz
 Rated voltage : 230/400 V
 Rated current : 0.943/0.542 A
 L. R. Amperes : 4.06/2.33 A
 LRC : 4.3
 No load current : 0.777/0.446 A
 Rated speed : 1425 rpm
 Slip : 5.00 %
 Rated torque : 0.805 Nm
 Locked rotor torque : 300 %
 Breakdown torque : 330 %
 Insulation class : F
 Service factor : 1.00
 Moment of inertia (J) : 0.0005 kgm²
 Design : N

Locked rotor time : 64s (cold) 36s (hot)
 Temperature rise : 80 K
 Duty cycle : S1
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : B5T
 Rotation¹ : Both (CW and CCW)
 Noise level² : 47.0 dB(A)
 Starting method : Direct On Line

Output	50%	75%	100%
Efficiency (%)	49.0	56.0	59.1
Power Factor	0.40	0.48	0.54

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)
75.5	57.5	67.3	67.2	47.5	47.8	30.1

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).
- (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
Performed by		<div>Page</div> <div>Revision</div>		
Checked by				
Date	12/12/2023			

TORQUE AND CURRENT VS SPEED CURVE

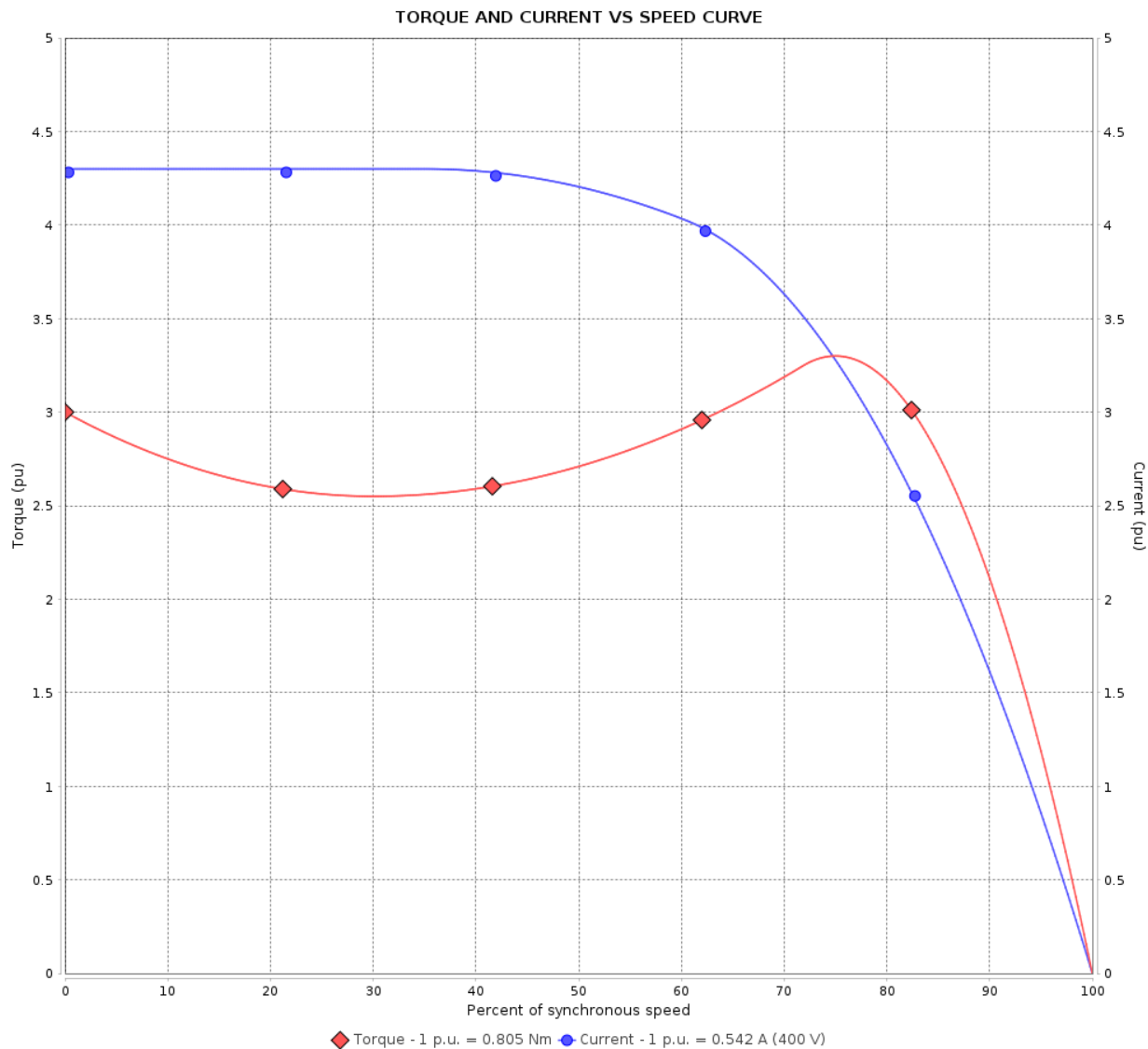
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 4Revision		
Checked by				
Date	12/12/2023			

LOAD PERFORMANCE CURVE

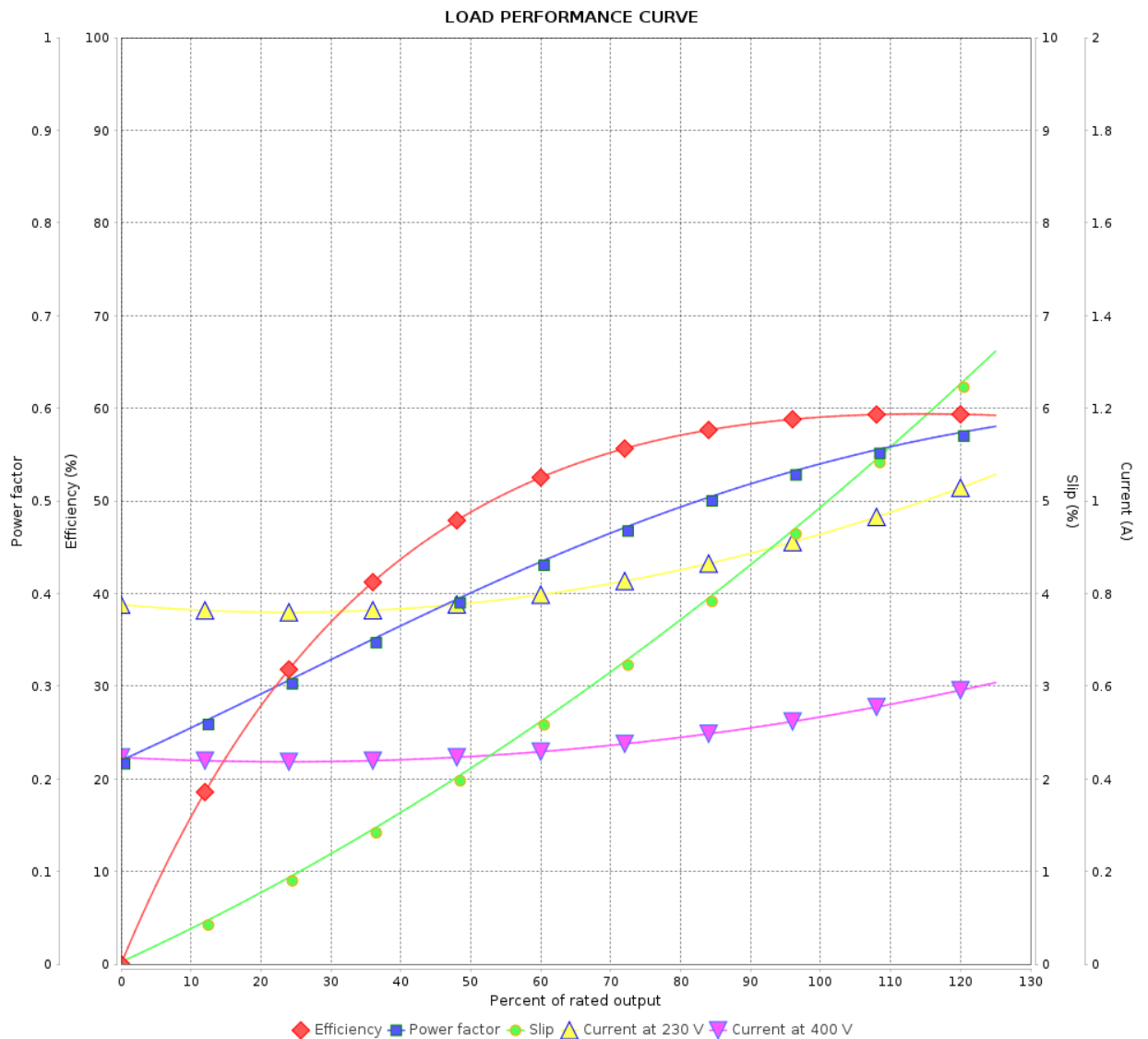
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	12/12/2023			

VFD OPERATION CURVE

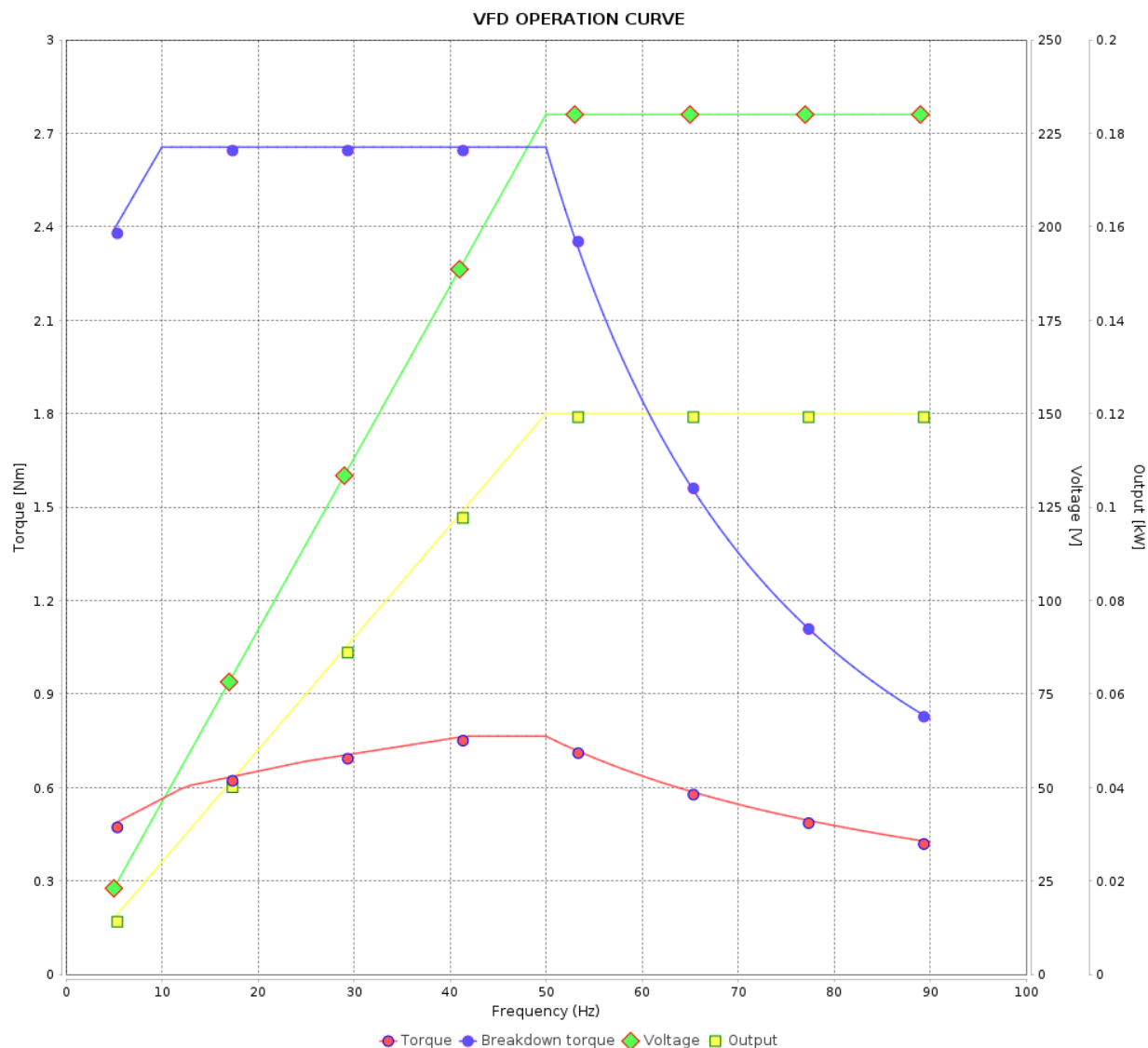
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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				4 / 4	
Date					