

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W12 IE2 Three-Phase

Product code : 16435557

Frame	: W63	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 0.18 kW (0.25 HP)	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	: 1.06/0.608 A	Protection degree	: IP55
L. R. Amperes	: 5.29/3.04 A	Cooling method	: IC411 - TEFC
LRC	: 5.0	Mounting	: B14T
No load current	: 0.876/0.503 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1400 rpm	Noise level ²	: 47.0 dB(A)
Slip	: 6.67 %	Starting method	: Direct On Line
Rated torque	: 1.23 Nm		
Locked rotor torque	: 240 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0006 kgm ²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	58.0	63.0	64.7
Power Factor	0.46	0.58	0.66

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)
63.6	58.6	66.5	45.4	34.0	31.8	21.4

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.

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TORQUE AND CURRENT VS SPEED CURVE

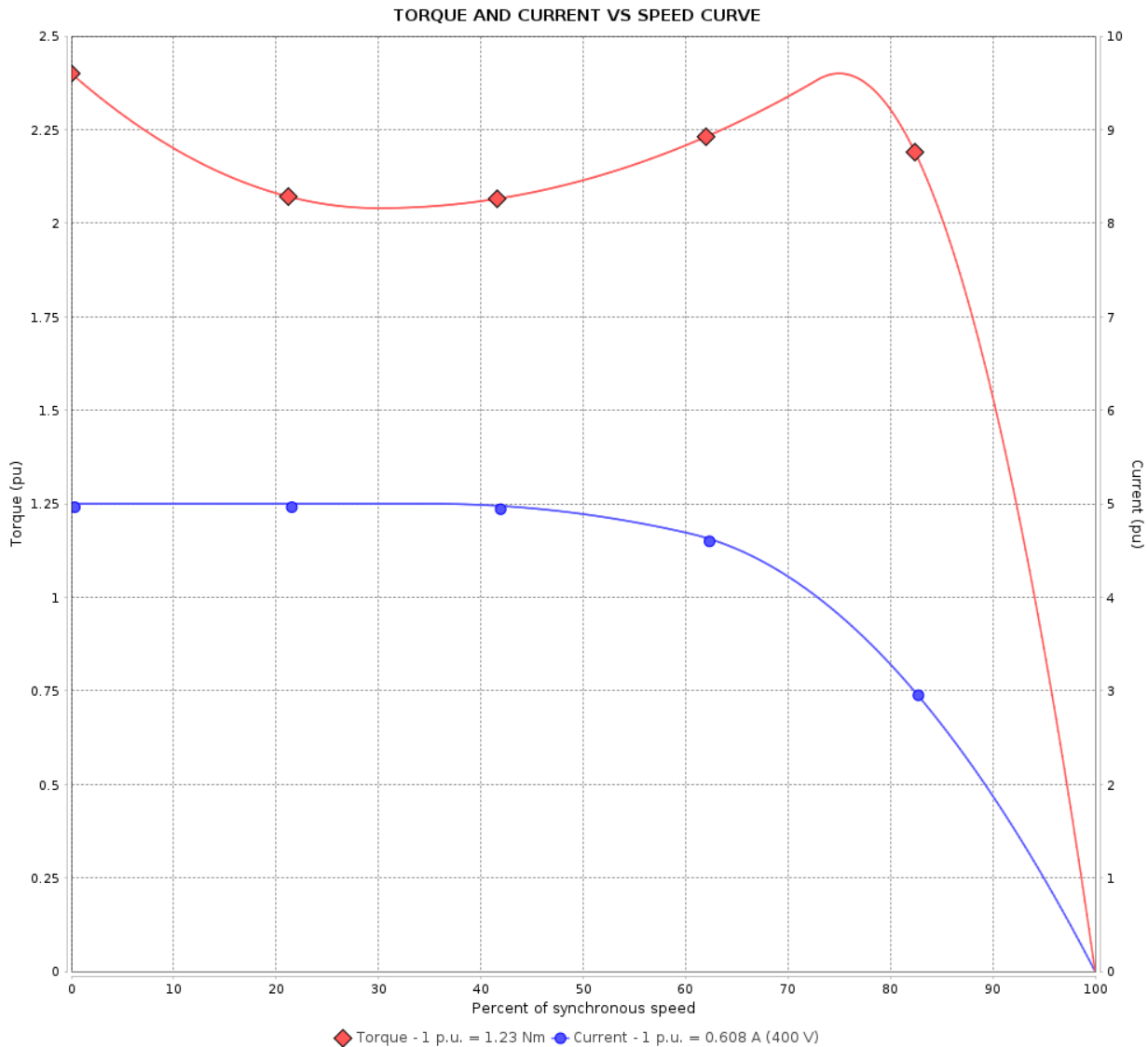
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Performance : 230/400 V 50 Hz 4P

Rated current	: 1.06/0.608 A	Moment of inertia (J)	: 0.0006 kgm ²
LRC	: 5.0	Duty cycle	: S1
Rated torque	: 1.23 Nm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1400 rpm	Design	: N

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

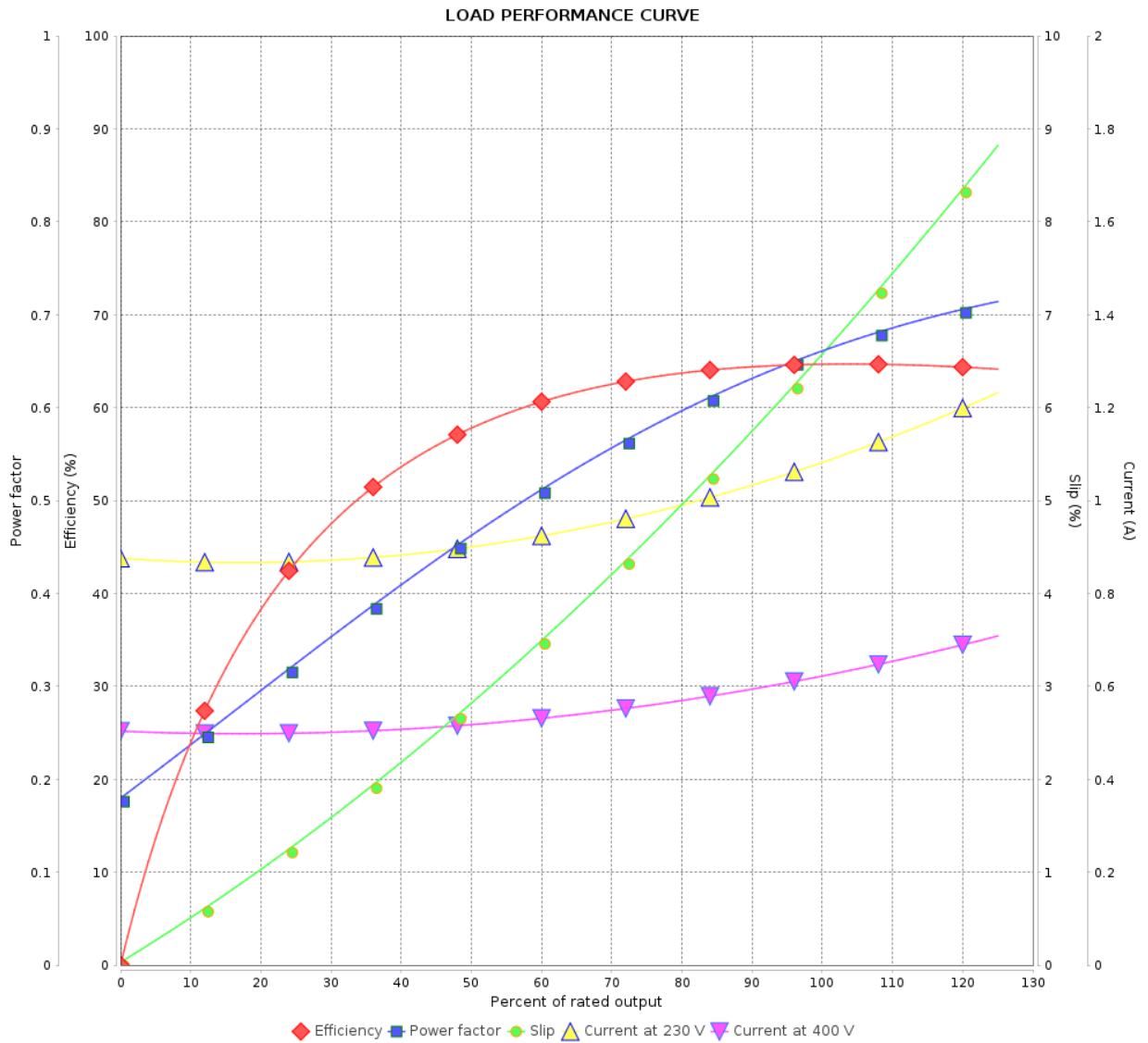
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Performance : 230/400 V 50 Hz 4P

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 Rated speed : 1400 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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VFD OPERATION CURVE

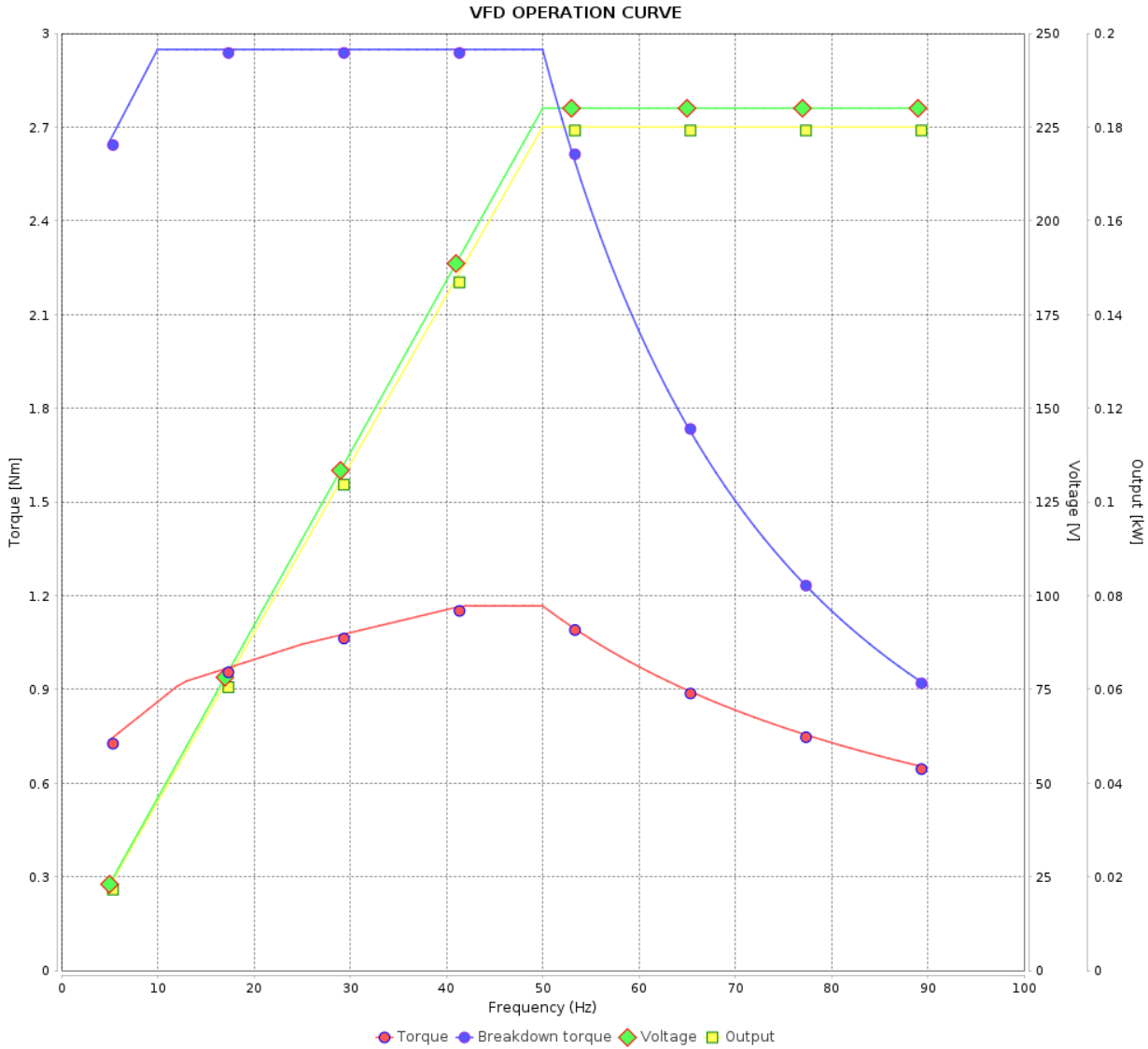
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