

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : AutomationSTE
Customer reference : AutomationSTE

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase
Product code : 12636593
Catalog # : 02036ET3E256T-S

Frame	: 254/6T	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 45.4/22.7 A	Protection degree	: IP55
L. R. Amperes	: 300/150 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 13.8/6.88 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 40.5 Nm	Approx. weight ³	: 98.7 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0514 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.0	91.0	91.0	Max. traction	: 1366 N
Power Factor	0.81	0.88	0.91	Max. compression	: 2333 N

	Drive end	Non drive end
Bearing type	: 6309 Z C3	6208 Z C3
Sealing	: V'Ring	Without Bearing Seal
Lubrication interval	: 15797 h	20000 h
Lubricant amount	: 13 g	8 g
Lubricant type	Mobil Polyrex EM	

Notes:
USABLE @208V 50.2A SF 1.00 SFA 50.2A

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 NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

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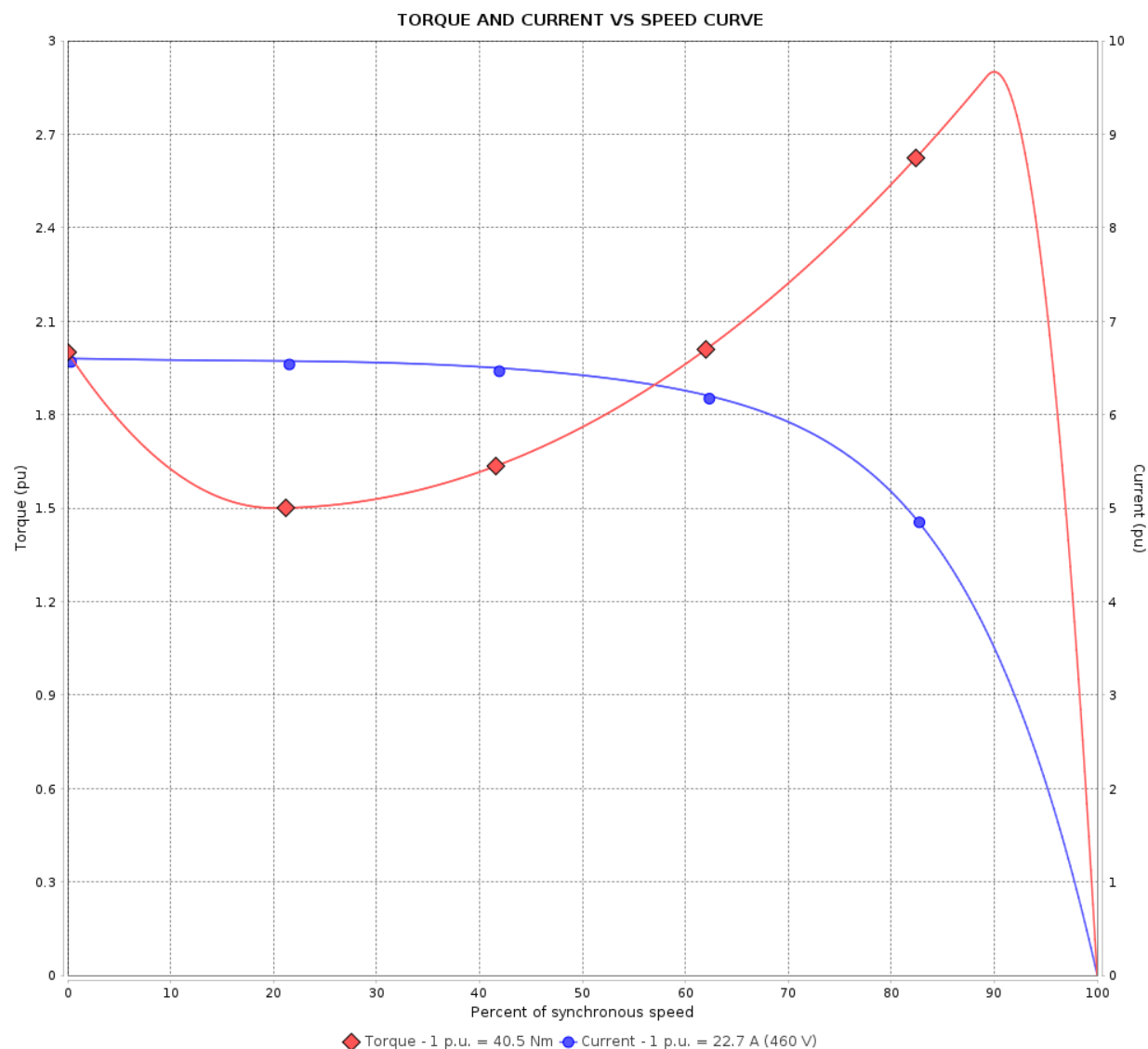


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Breakdown torque : 290 %
Rated speed : 3515 rpm

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Design : B

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LOAD PERFORMANCE CURVE

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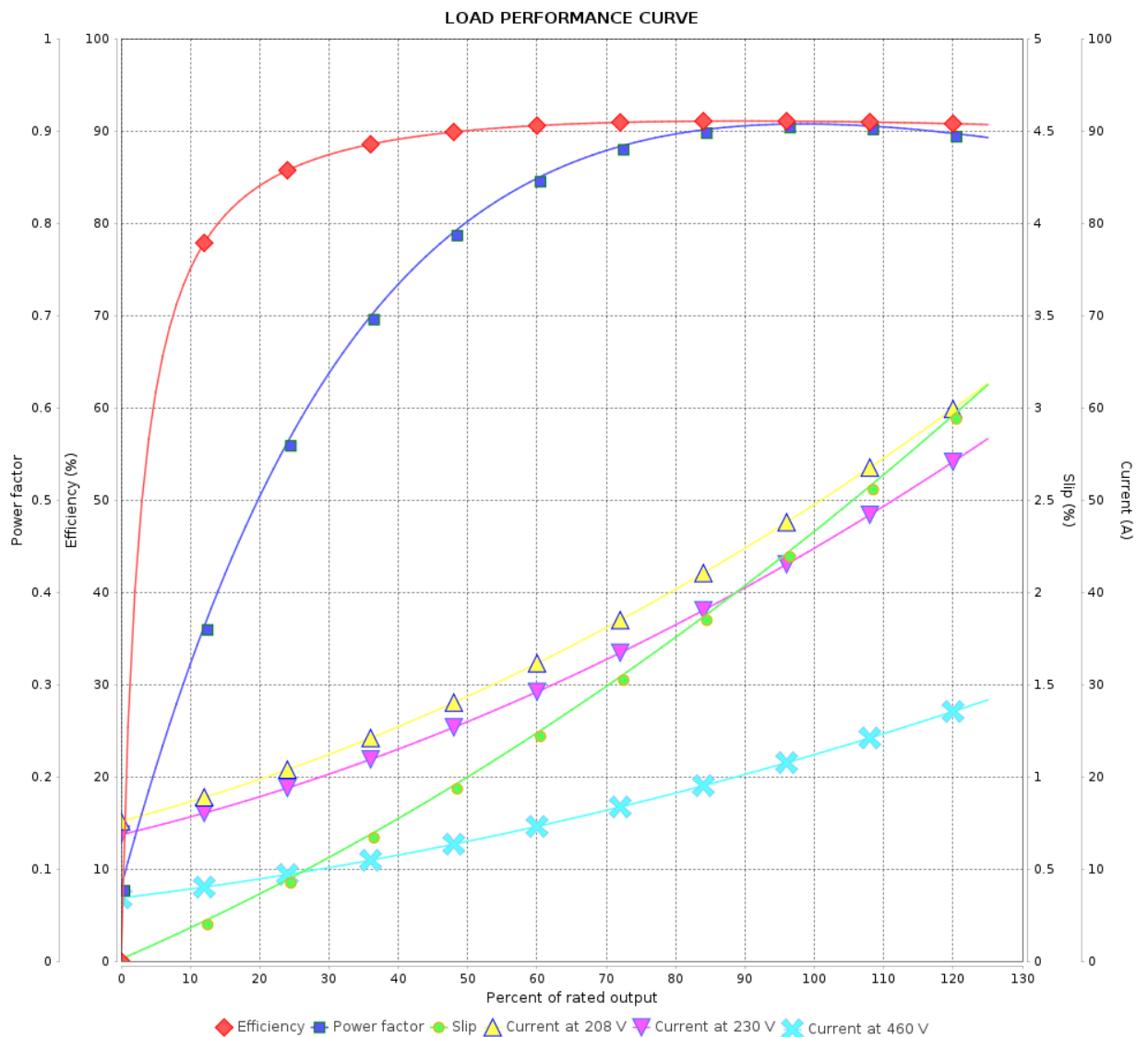


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VFD OPERATION CURVE

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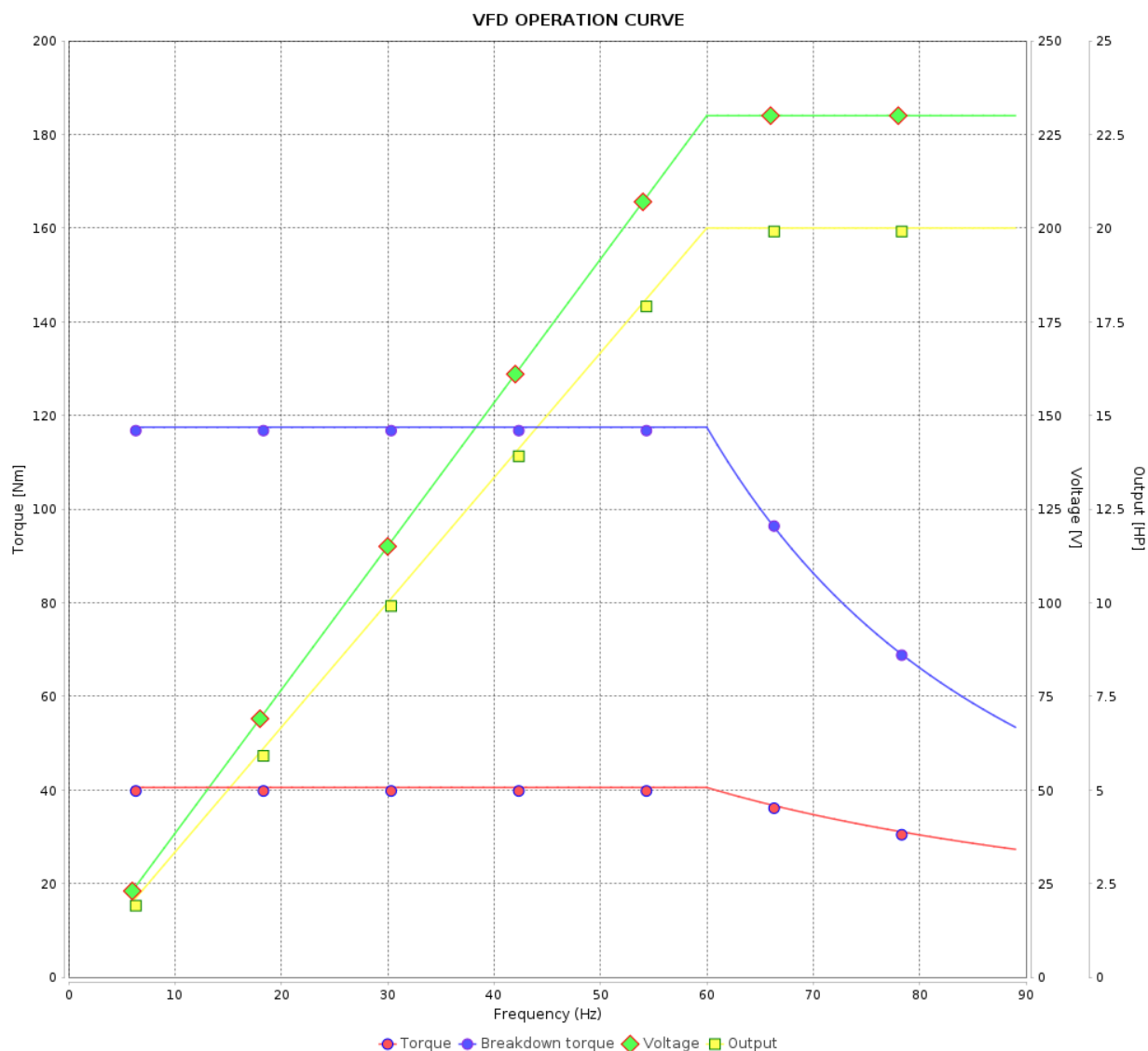


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