

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : SanRock

Product line : W22Xdb IE3 Three-Phase Product code : 15546096
 Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Frame	: 160M/L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 15 kW (20 HP)	Temperature rise	: 80 K
Poles	: 4	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	: 28.3/16.4 A	Protection degree	: IP56
L. R. Amperes	: 198/115 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B5T
No load current	: 13.0/7.54 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1475 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 1.67 %	Starting method	: VFD
Rated torque	: 9.91 kgfm	Approx. weight ³	: 200 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1534 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.0	92.5	92.3	Max. traction	: 326 kgf
Power Factor	0.00	0.66	0.77	0.83	Max. compression	: 526 kgf

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)
8.2	7.3	7.0	3.8	2.8	1.8	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6308 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 22ATEX0025X
 CML 23UKEX1256X
 II 2G Ex db eb IIB T4 Gb
 EAC
 EAЭC RU C-BR.AA87.B.00379/20
 1Ex db e IIB T4 Gb X
 ООО «НАИНО ЦСБЭ»
 IECEX
 IECEX INE 22.0044X
 Ex db eb IIB T4 Gb

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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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

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TORQUE AND CURRENT VS SPEED CURVE

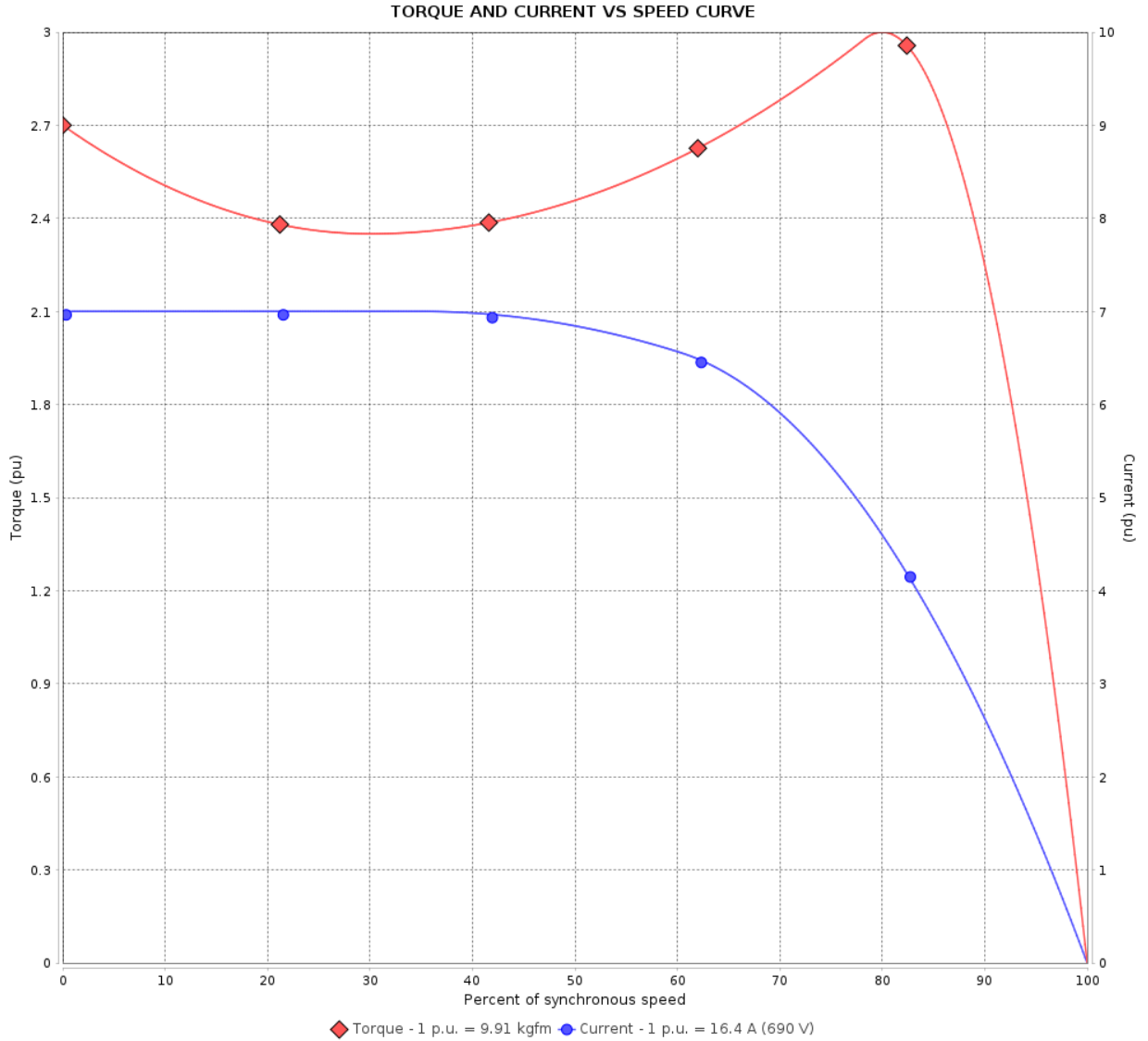


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Performance : 400/690 V 50 Hz 4P

Rated current	: 28.3/16.4 A	Moment of inertia (J)	: 0.1534 kgm ²
LRC	: 7.0	Duty cycle	: S1
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: N

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LOAD PERFORMANCE CURVE

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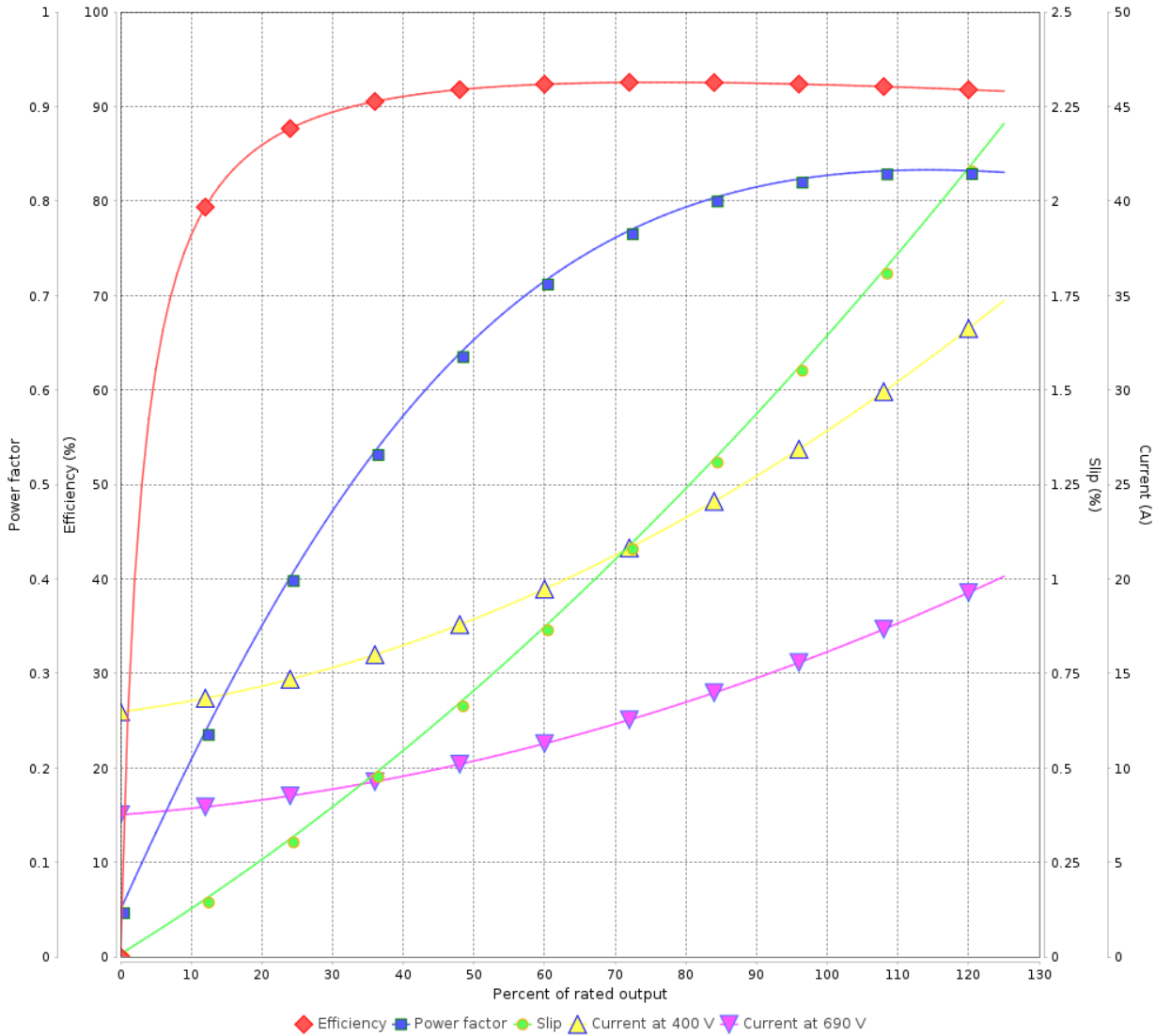


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Moment of inertia (J) : 0.1534 kgm²
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VFD OPERATION CURVE

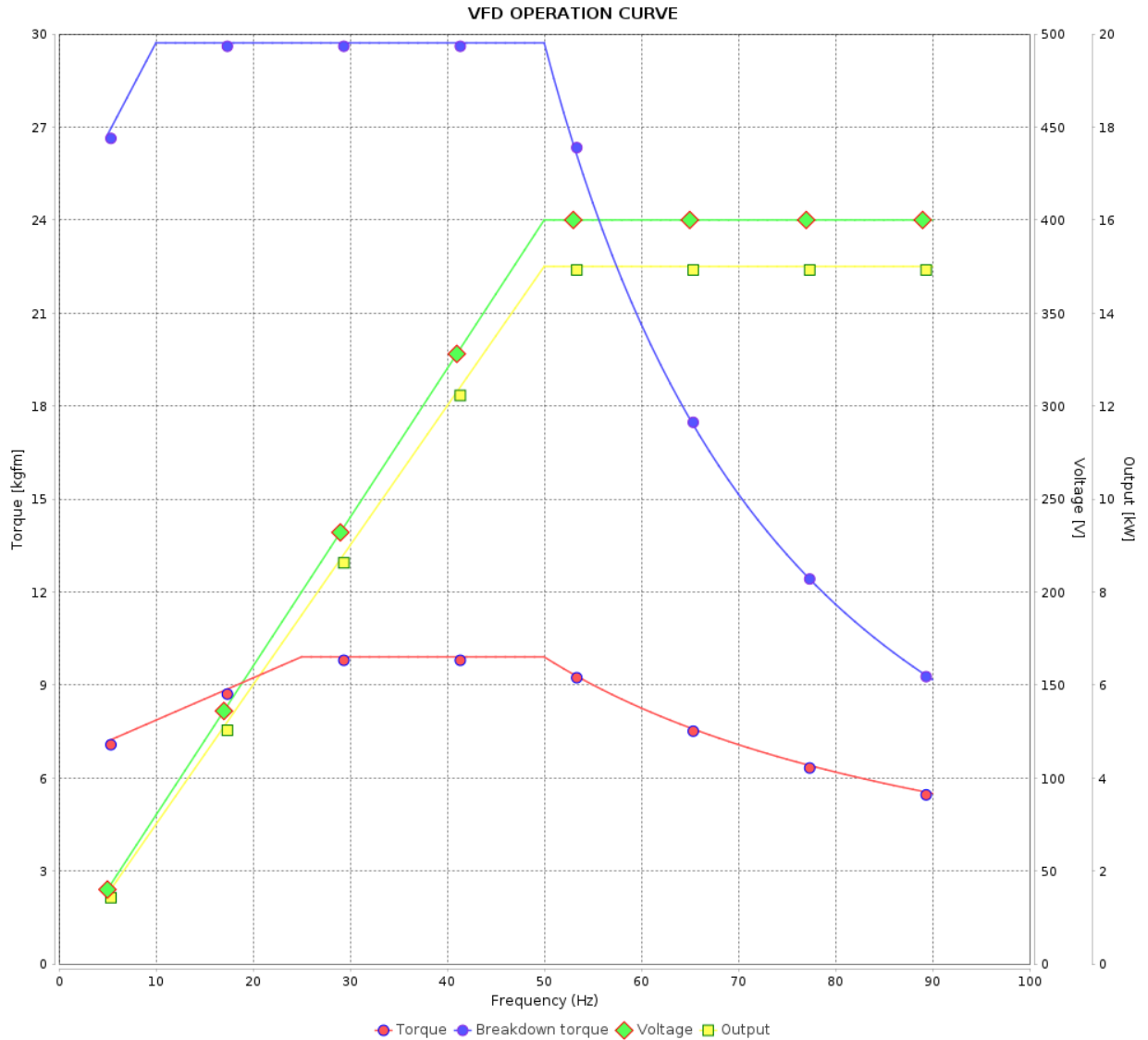
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