DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	: IDS

Product line	: W22 IE3 Three-Phase	Product code :	12976955

Frame	: 225S/M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 45 kW	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	: 80.9/46.9 A	Protection degree	: IP55
L. R. Amperes	: 607/352 A	Cooling method	: IC411 - TEFC
LRC	: 7.5	Mounting	: B35T
No load current	: 31.7/18.4 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1480 rpm	Noise level²	: 63.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 29.6 kgfm	Approx. weight³	: 414 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6733 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	93.7	94.1	94.4
Power Factor	0.71	0.81	0.85

Foundation loads	
Max. traction	: 759 kgf
Max. compression	: 1173 kgf

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	14000 h	14000 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.

Rev.	Changes Summary	Performed	Checked	Date

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Customer : IDS

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 ºC

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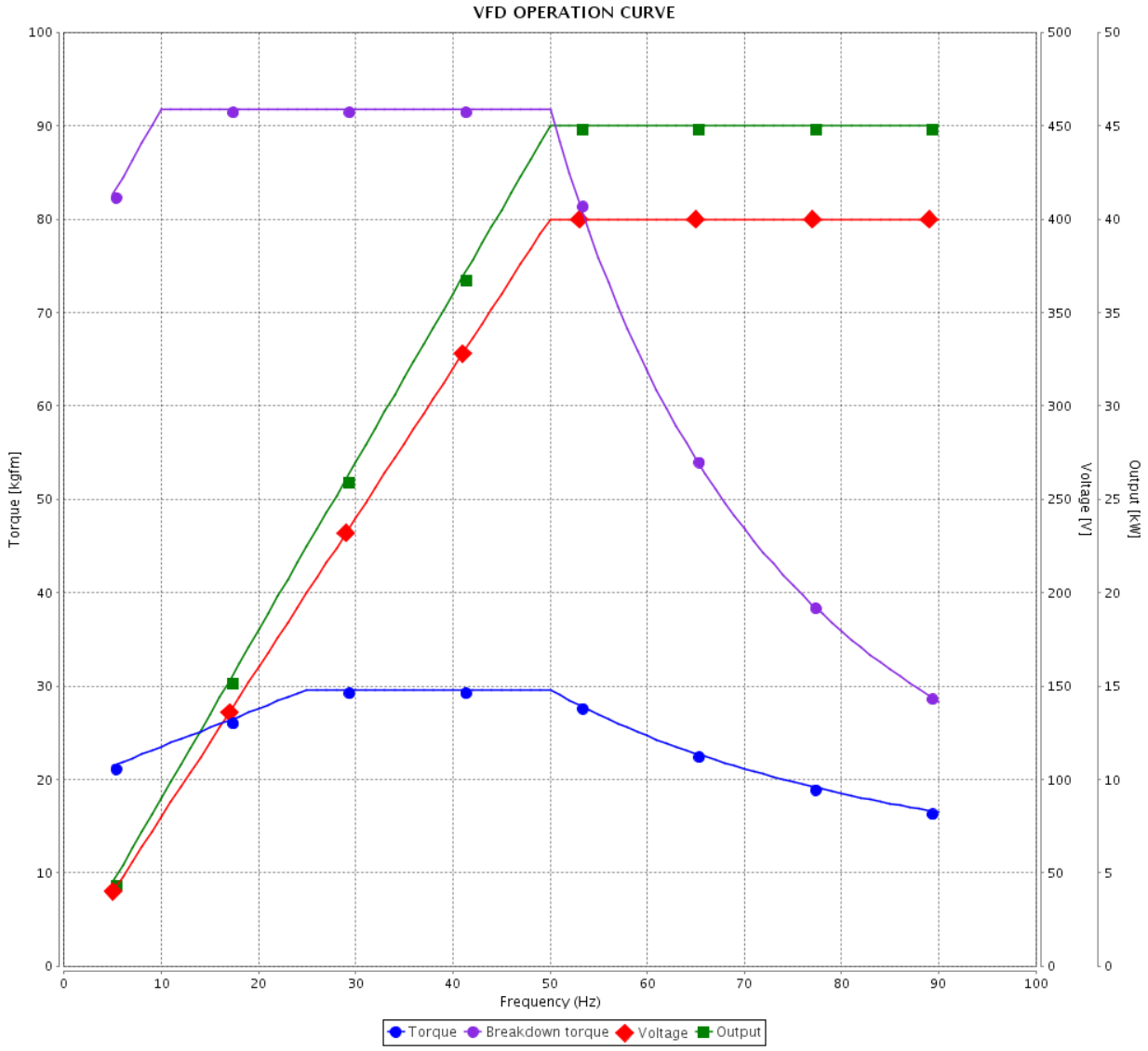
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	: IDS		
Product line	: W22 IE3 Three-Phase	Product code :	12976955



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 80.9/46.9 A	Moment of inertia (J)	: 0.6733 kgm²
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 29.6 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: N

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