

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12959507
Frame	: 250S/M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 55 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	: 98.6/57.2 A	Protection degree	: IP55
L. R. Amperes	: 740/429 A	Cooling method	: IC411 - TEFC
LRC	: 7.5	Mounting	: B35T
No load current	: 42.0/24.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1480 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 36.2 kgfm	Approx. weight ³	: 511 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 1.05 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	94.3	94.7	94.7
Power Factor	0.69	0.80	0.85
Foundation loads			
Max. traction		: 779 kgf	
Max. compression		: 1291 kgf	
Bearing type		Drive end	Non drive end
Sealing		6314 C3	6314 C3
Lubrication interval		Oil Seal	Oil Seal
Lubricant amount		14000 h	14000 h
Lubricant type		27 g	27 g
		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.			
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.	
Rev.	Changes Summary		Date
Performed by	Checked		Page
Checked by	Revision		1 / 3
Date	10/07/2019		

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Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 3	
Date	10/07/2019				

VFD OPERATION CURVE

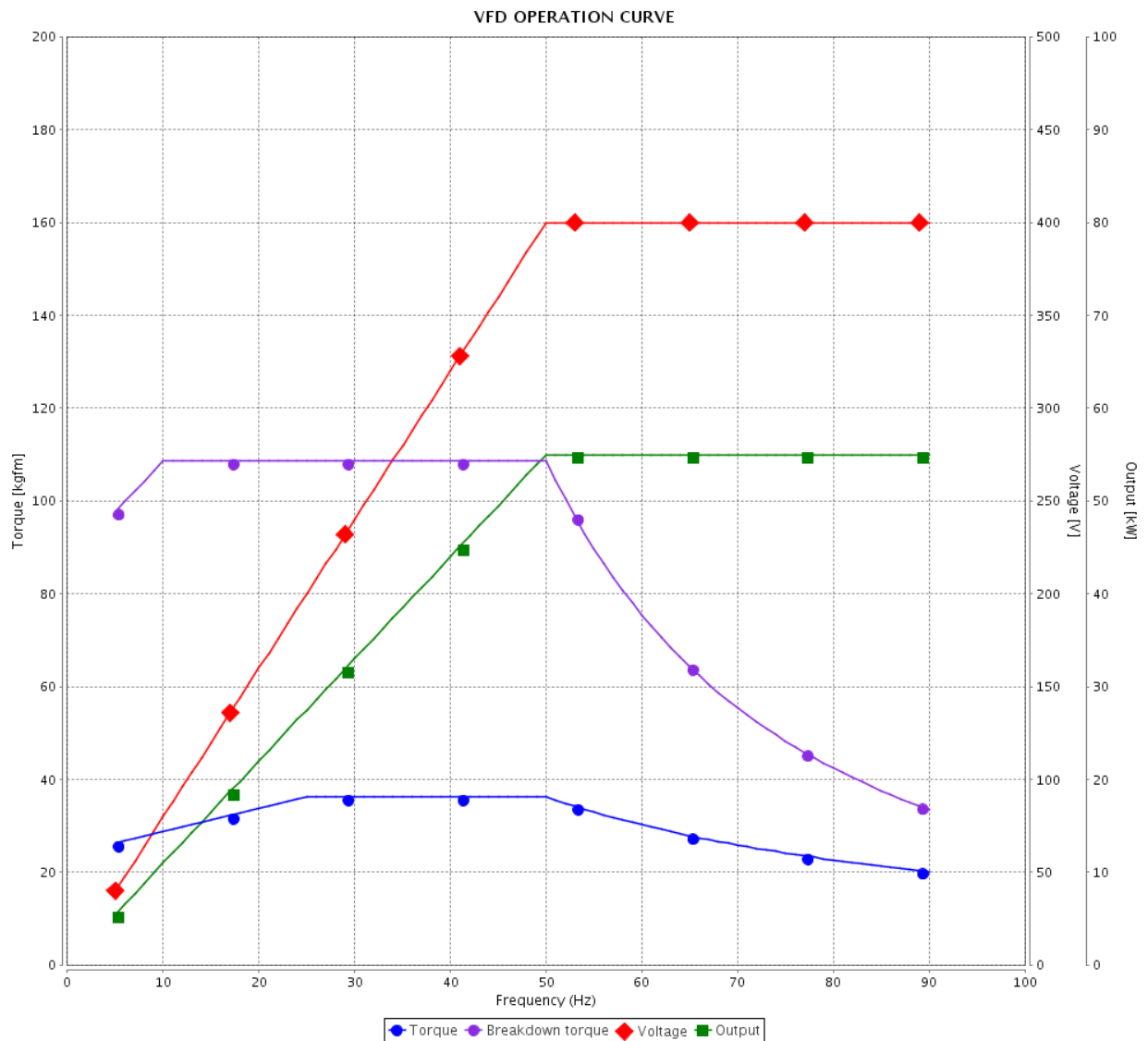
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12959507



Performance : 400/690 V 50 Hz 4P

Rated current : 98.6/57.2 A
 LRC : 7.5
 Rated torque : 36.2 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 300 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 1.05 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		
Checked by				
Date	10/07/2019			
		Revision		