

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862411
Frame	: 280S/M	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 90 kW	Temperature rise	: 80 K
Poles	: 2	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	: 153/88.7 A	Protection degree	: IP55
L. R. Amperes	: 1163/674 A	Cooling method	: IC411 - TEFC
LRC	: 7.6	Mounting	: B3T
No load current	: 41.0/23.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2976 rpm	Noise level ²	: 77.0 dB(A)
Slip	: 0.80 %	Starting method	: Direct On Line
Rated torque	: 29.5 kgfm	Approx. weight ³	: 700 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 1.12 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	94.3	95.2	95.2
Power Factor	0.81	0.87	0.89
Foundation loads			
Max. traction		: 335 kgf	
Max. compression		: 1036 kgf	
		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	5000 h	5000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	
Notes			
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			
<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.</p>			
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Thermal protection

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

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VFD OPERATION CURVE

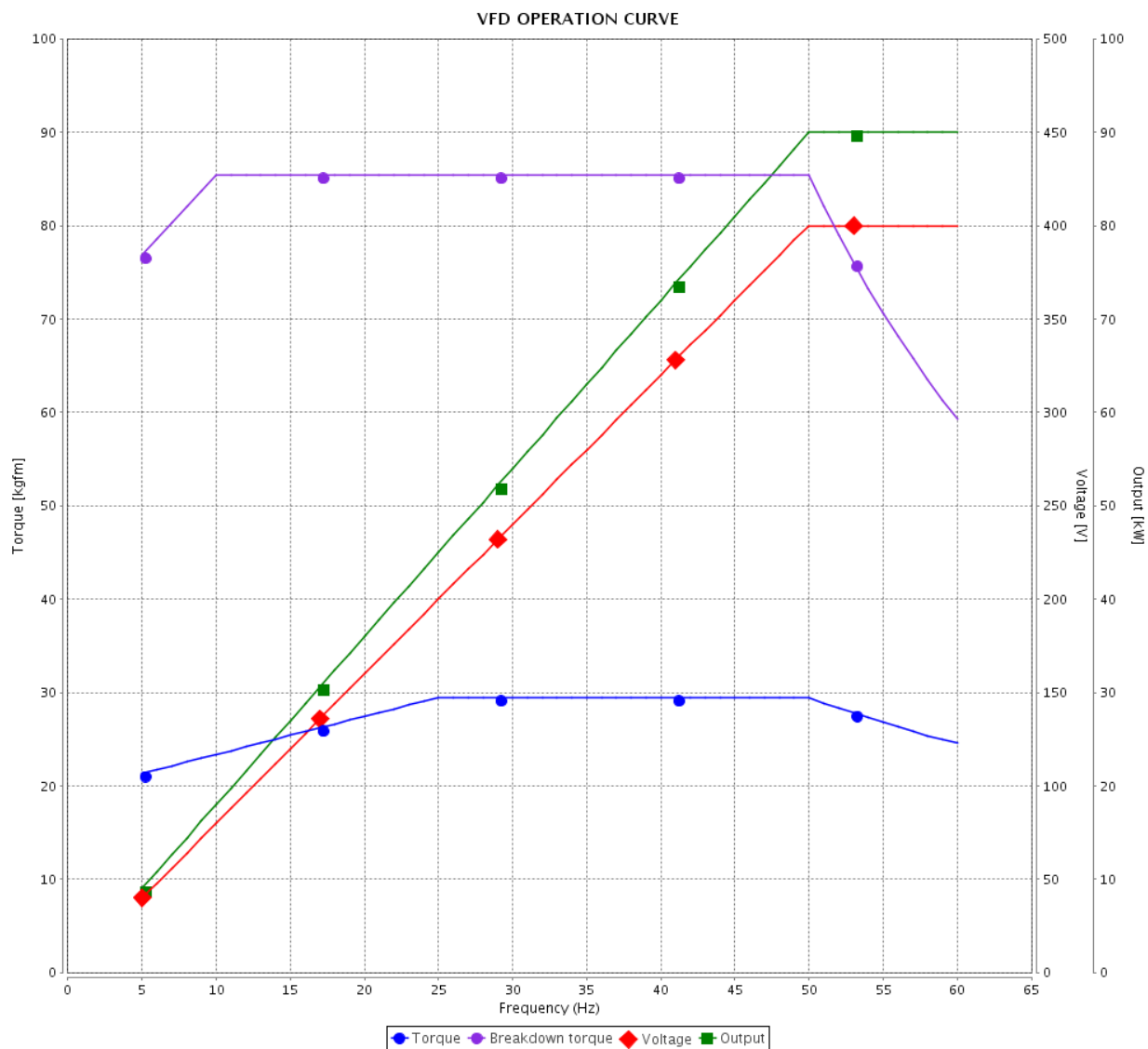
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862411



Performance : 400/690 V 50 Hz 2P

Rated current : 153/88.7 A
 LRC : 7.6
 Rated torque : 29.5 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 2976 rpm

Moment of inertia (J) : 1.12 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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