

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			
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	155 °C

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VFD OPERATION CURVE

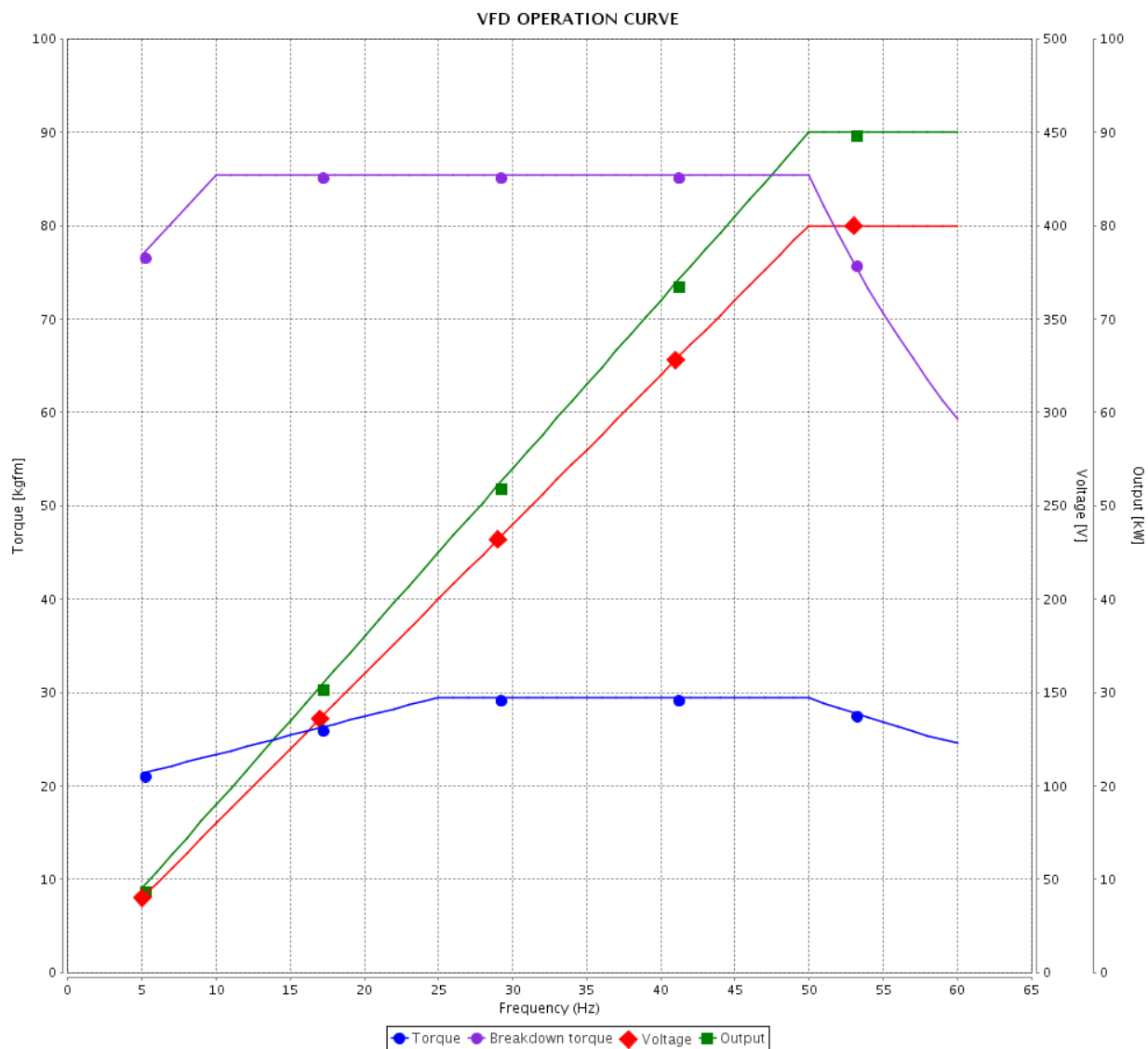
Three Phase Induction Motor - Squirrel Cage



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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