

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862502
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	: B3T
No load current	: 31.7/18.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1480 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 29.6 kgfm	Approx. weight ³	: 402 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6733 kgm ²		
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		: 765 kgf	
Max. compression		: 1167 kgf	
		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
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
Performed by			
Checked by			
Date	27/06/2019		
		Page	Revision
		1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : IDS

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	27/06/2019				

VFD OPERATION CURVE

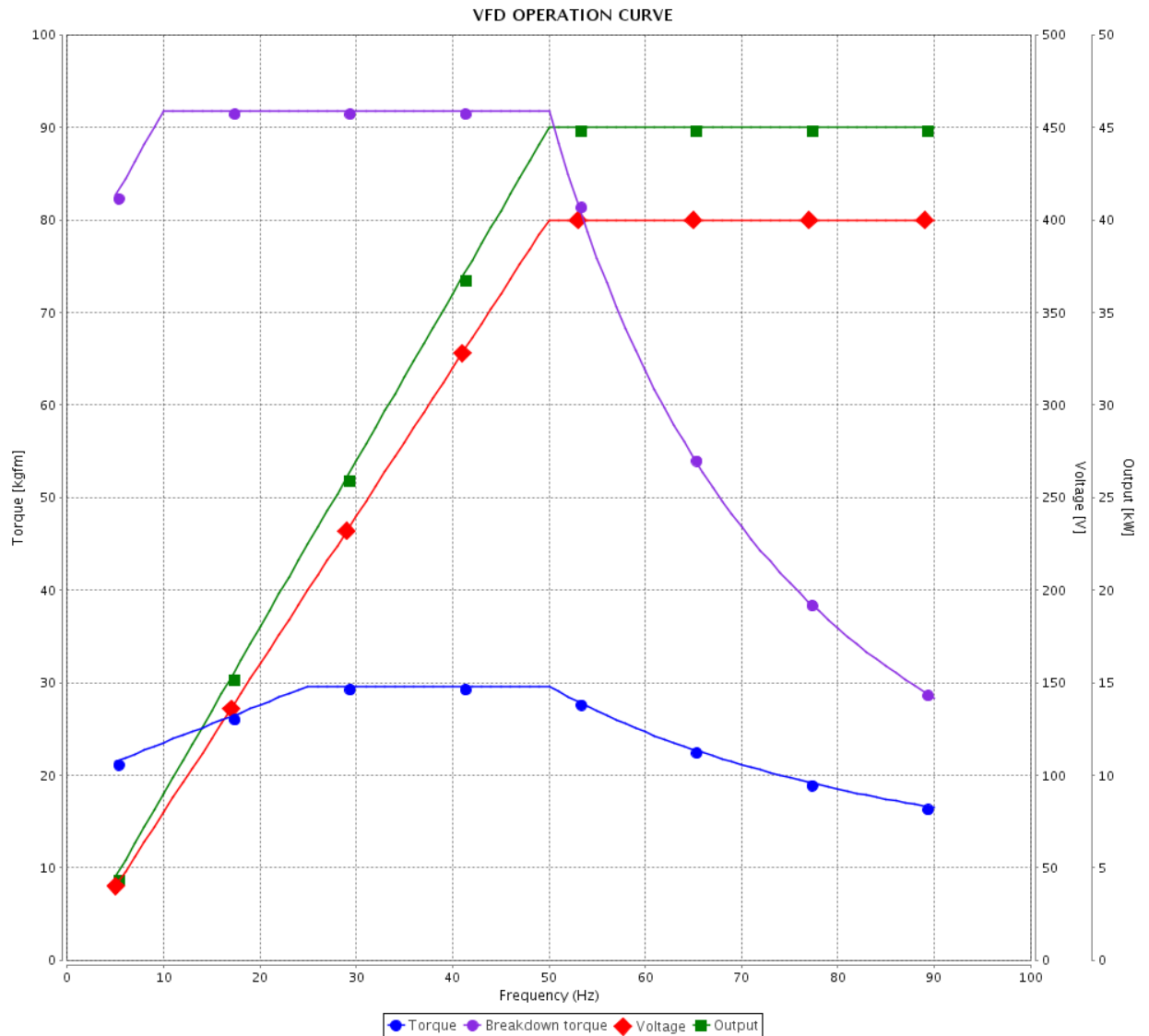
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862502



Performance : 400/690 V 50 Hz 4P

Rated current : 80.9/46.9 A
 LRC : 7.5
 Rated torque : 29.6 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 310 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.6733 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	27/06/2019			
		Revision		