

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12959504
Frame	: 180L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 22 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	: 41.0/23.8 A	Protection degree	: IP55
L. R. Amperes	: 299/174 A	Cooling method	: IC411 - TEFC
LRC	: 7.3	Mounting	: B35T
No load current	: 19.0/11.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1470 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 14.6 kgfm	Approx. weight ³	: 202 kg
Locked rotor torque	: 340 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.2097 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	92.3	93.0	93.2
Power Factor	0.66	0.77	0.83
Foundation loads			
Max. traction		: 556 kgf	
Max. compression		: 758 kgf	
Drive end Non drive end Bearing type Sealing Lubrication interval Lubricant amount Lubricant type 6311 C3 Oil Seal 20000 h 18 g Mobil Polyrex EM 6211 Z C3 Oil Seal 20000 h 11 g			
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
Performed by			Checked
Checked by			Date
Date	10/07/2019		
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	10/07/2019				

VFD OPERATION CURVE

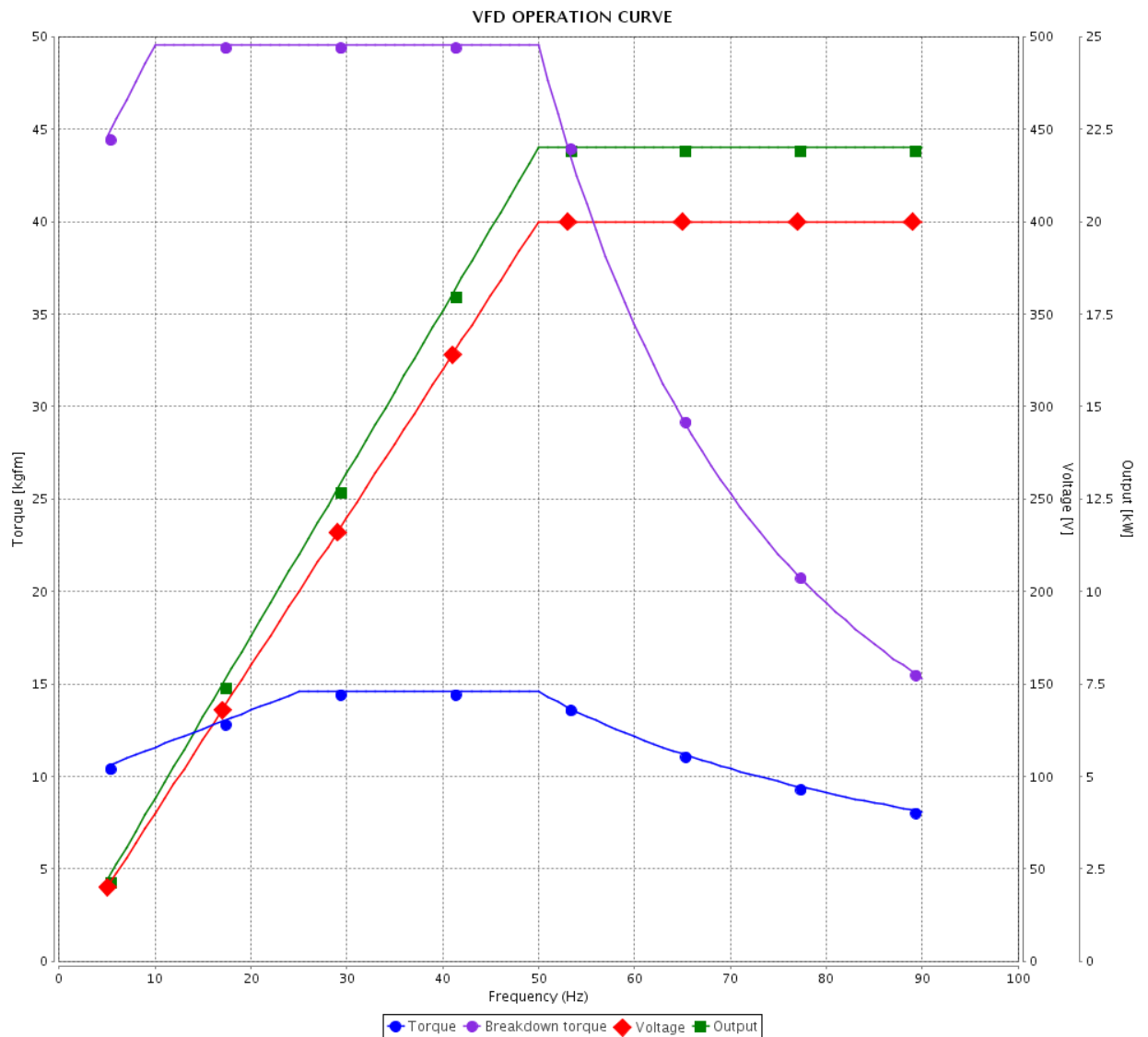
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12959504



Performance : 400/690 V 50 Hz 4P

Rated current : 41.0/23.8 A
 LRC : 7.3
 Rated torque : 14.6 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 340 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2097 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	Revision
Checked by				3 / 3	
Date					

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Subject to change without notice