#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer : GRUPA MGE
Customer reference : GRUPA MGE

Product line : WEG GENERAL PURPOSE IE3 Product code : 16268376

Three-Phase

Frame : 160M Cooling method : IC411 - TEFC Insulation class : F Mounting : B3T

Insulation class : F Mounting : B3T

Duty cycle : S1 Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 Approx. weight³ : 110 kg
Protection degree : IP55 Moment of inertia (J) : 0.0333 kgm²

Protection degree : IP55
Design : N

Output [kW]		11	11	
Poles		2	2	
Frequency [Hz]		50	60	
Rated voltage [V]		400/690	460	
Rated current [A]		20.2/11.7	18.1	
L. R. Amperes [A]		152/87.8	152	
LRC [A]		7.5	8.4	
No load current [A	]	8.50/4.93	8.00	
Rated speed [RPN	4]	2950	3560	
Slip [%]		1.67	1.11	
Rated torque [Nm]		35.6	29.5	
Locked rotor torque [%]		250	300	
Breakdown torque [%]		360	420	
Service factor		1.00	1.00	
Temperature rise		80 K	80 K	
Locked rotor time		32s (cold) 18s (hot)	39s (cold) 22s (hot)	
Noise level <sup>2</sup>		67.0 dB(A)	72.0 dB(A)	
	25%			
Efficiency (%)	50%	90.4	89.7	
Efficiency (70)	75%	91.2	91.0	
	100%	91.2	91.0	
	25%			
Power Factor	50%	0.70	0.68	
I OWEI FACIOI	75%	0.80	0.79	
	100%	0.86	0.84	

Losses at normative operating points (speed;torque), in percentage of rated output power

	P1 (0,9;1,0)	9.2	9.5
	P2 (0,5;1,0)	7.8	8.0
	P3 (0,25;1,0)	7.3	7.5
Losses (%)	P4 (0,9;0,5)	4.6	4.7
	P5 (0,5;0,5)	3.0	3.1
	P6 (0,5;0,25)	2.0	2.0
	P7 (0,25;0,25)	1.4	1.4
	*		

Bearing type : Drive end 6209 ZZ C3 6209 ZZ C3 Foundation loads
Sealing : V'Ring V'Ring Foundation loads
Max. traction
Max. compression

Lubrication interval : - - - Lubricant amount : - - - - Lubricant type : Mobil Polyrex EM

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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.

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#### Three Phase Induction Motor - Squirrel Cage



Customer	: GRUPA MGE
Customer reference	· GRUPA MGF

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# DATA SHEET

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

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### VFD OPERATION CURVE

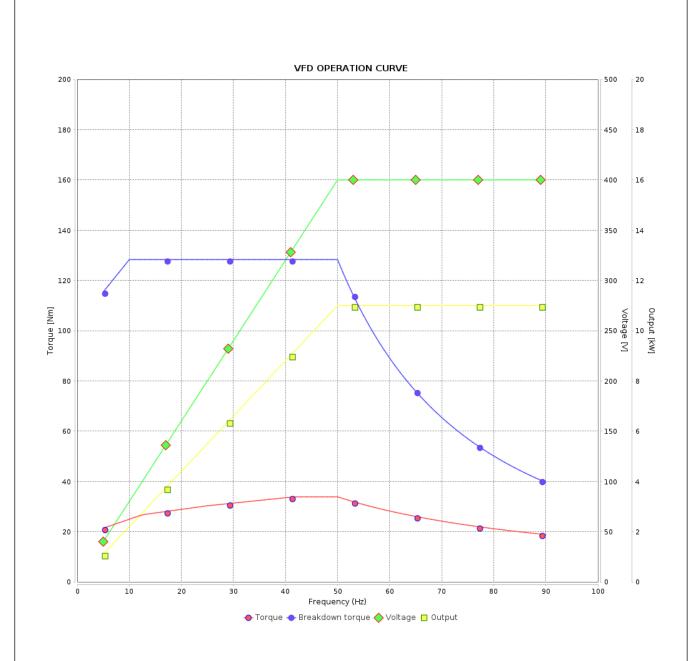
#### Three Phase Induction Motor - Squirrel Cage



Customer : GRUPA MGE
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Product line : WEG GENERAL PURPOSE IE3 Product code : 16268376

Three-Phase



Performance	: 400/690 V 50 Hz 2P				
Rated current	: 20.2/11.7 A	Moment of inertia (J)		: 0.0333 kgm²	
LRC	: 7.5	Duty cycle		: S1	
Rated torque	: 35.6 Nm	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 360 %	Temperature rise Design		: 80 K : N	
Rated speed	: 2950 rpm				
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### VFD OPERATION CURVE

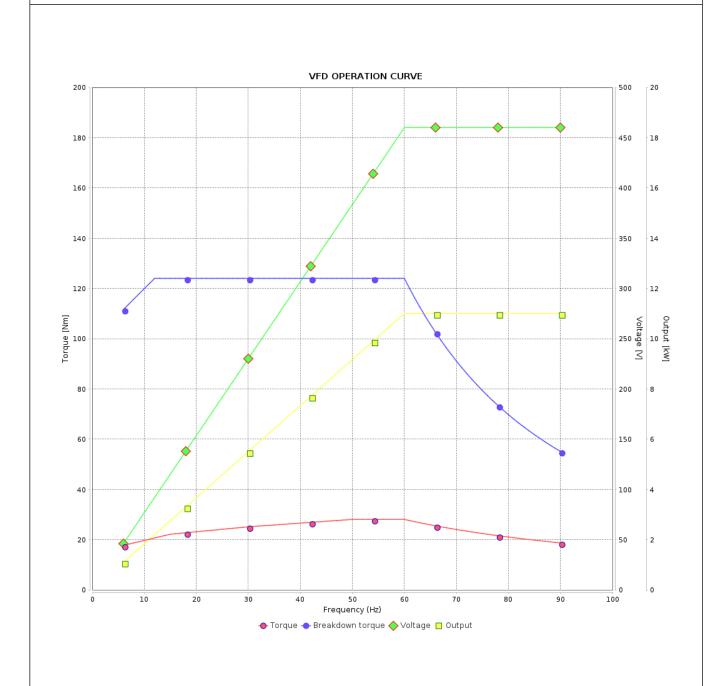
### Three Phase Induction Motor - Squirrel Cage



Customer : GRUPA MGE
Customer reference : GRUPA MGE

Product line : WEG GENERAL PURPOSE IE3 Product code : 16268376

Three-Phase



Performance	:	460 V 60 Hz 2P					
Rated current : 18.1 A		Moment o	Moment of inertia (J)		2		
LRC	:	8.4			: S1		
Rated torque	:	29.5 Nm	Insulation	Insulation class : F			
Locked rotor torg	jue :	300 %	Service fa	ctor	: 1.00		
· ·		420 %	Temperati	Temperature rise		: 80 K	
Rated speed		3560 rpm	Design	Design			
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