DATA SHEET

Three Phase Induction Motor - Squirrel Cage

: S1



: Grupa MGE Customer reference : Grupa MGE Product line : WEG GENERAL PURPOSE IE3 Product code: 16170075 Three-Phase : 160M Frame Cooling method : IC411 - TEFC Insulation class : F Mounting : B3T

Duty cycle : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 Approx. weight³ : 125 kg Protection degree : IP55 Moment of inertia (J) : 0.0779 kgm² Design : N

Rotation¹

Output [kW] 11 11 Poles 4 4 Frequency [Hz] 50 60 Rated voltage [V] 400/690 460 Rated current [A] 21.2/12.3 18.4 L. R. Amperes [A] 146/84.8 151 LRC [A] 6.9 8.2 No load current [A] 10.5/6.09 9.90 Rated speed [RPM] 1475 1780 Slip [%] 1.67 1.11 Rated torque [Nm] 71.3 59.0 Locked rotor torque [%] 250 340 Breakdown torque [%] 340 400 Service factor 1.00 1.00 80 K 80 K Temperature rise 23s (cold) 13s (hot) 30s (cold) 17s (hot) Locked rotor time Noise level² 59.0 dB(A) 63.0 dB(A) 25% 50% 90.4 90.7 Efficiency (%) 75% 91.3 92.3 100% 91.4 92.4 25% 50% 0.64 0.62 Power Factor 75% 0.74 0.76 100% 0.82 0.81

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

	P1 (0,9;1,0)	9.2	8.0
	P2 (0,5;1,0)	8.2	7.2
	P3 (0,25;1,0)	7.9	6.9
Losses (%)	P4 (0,9;0,5)	4.4	3.9
	P5 (0,5;0,5)	3.3	2.9
	P6 (0,5;0,25)	2.2	1.9
	P7 (0,25;0,25)	1.7	1.4

Non drive end Foundation loads Drive end Bearing type 6209 ZZ C3 6209 ZZ C3 Max. traction Sealing V'Ring V'Ring Max. compression Lubrication interval

Lubricant amount Lubricant type Mobil Polyrex EM

This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal 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.

power supply, subject to the tolerances stipulated in IEC 60034-1.

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Customer : Grupa MGE
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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

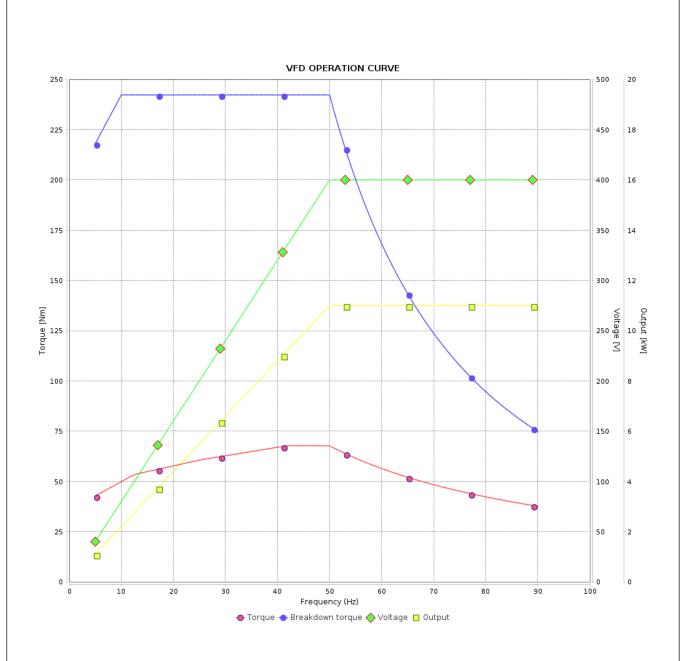
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Product line : WEG GENERAL PURPOSE IE3 Product code : 16170075

Three-Phase



Performance	: 400/690 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.2/12.3 A : 6.9 : 71.3 Nm : 250 % : 340 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0779 kgm² : S1 : F : 1.00 : 80 K : N	
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VFD OPERATION CURVE

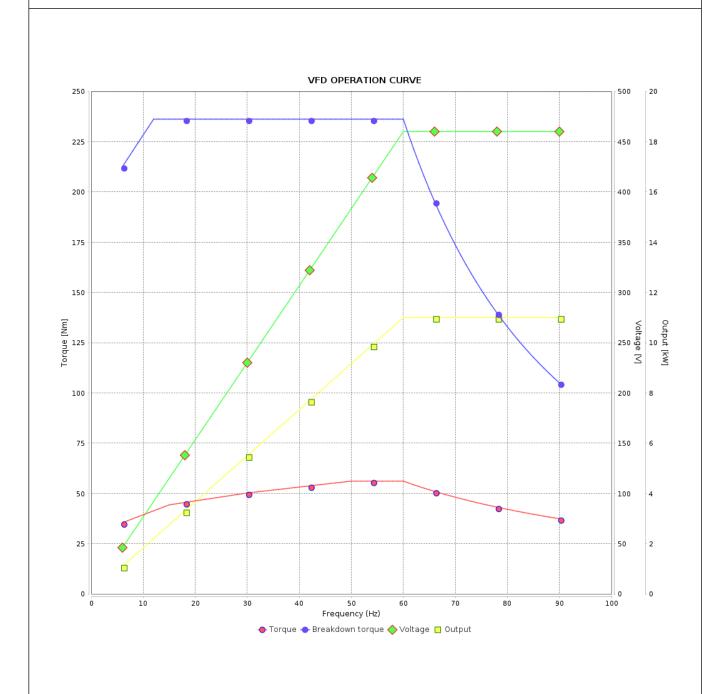
Three Phase Induction Motor - Squirrel Cage



Customer : Grupa MGE Customer reference : Grupa MGE

Product line : WEG GENERAL PURPOSE IE3 Product code : 16170075

Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current : 18.4 A		ass or	: 0.0779 kgm² : S1 : F : 1.00 : 80 K : N		
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