



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Information Packet

August 7, 2020

Data shown is for the current revision model #. Ensure your nameplate model # matches.

<b>Model Number:</b>	<b>5KFE163ZWL3103</b>
<b>Catalog Number:</b>	--
<b>Instruction Manual:</b>	GEI-M1052-SP
<b>Connection Diagram:</b>	--
<b>Outline Drawing:</b>	358B6965AA

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	--
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

<b>MODEL NUMBER:</b>	5KFE163ZWL3103	<b>Estimated Weight(kg):</b>	135
<b>Outline Drawing:</b>	358B6965AA	<b>Duty:</b>	S1
<b>Connection Diagram:</b>	--	<b>Enclosure:</b>	TEFC
<b>Connection:</b>	DELTA / WYE	<b>Encl Construction:</b>	Energy Saver
<b>Instruction Book:</b>	GEI-M1052-SP	<b>Cooling (IC):</b>	411
<b>Design Code:</b>	NA	<b>Protection (IP):</b>	55
<b>Type:</b>	KFE	<b>Ambient Max (°C):</b>	40
<b>Frame:</b>	160L	<b>Alt Ambient Max(°C):</b>	--
<b>Mounting (IM):</b>	B3	<b>Ambient Min(°C):</b>	-15
<b>Phases:</b>	3	<b>Insulation Class:</b>	F
<b>Poles:</b>	6	<b>IEC Design:</b>	N
<b>Output Power:</b>	15HP/11kW	<b>Nominal Efficiency (%):</b>	IE2-88.7
<b>RPM:</b>	965	<b>Guaranteed Efficiency (%):</b>	87.0
<b>Voltage(V):</b>	400/690	<b>Power Factor (%):</b>	79
<b>Hertz:</b>	50	<b>Bearing - DE:</b>	6309/2Z C3
<b>Amps - FL:</b>	22.6/13.0	<b>Bearing - ODE:</b>	6307/2Z C3
<b>Service Factor:</b>	1.15	<b>Vibration (mm/s) rms:</b>	2.2
<b>Alt Service Factor:</b>	--		

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:Additional Information:

SUITABLE FOR DOL STARTING  
 ROTATION: CW VIEWED FROM DE  
 INVERTER DUTY PER IEC TS 60034-25, SECTION 18  
 INVERTER RATED PWM 20:1 VARIABLE TORQUE, 1.0 SF



**Performance Characteristic:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.53	88.06	88.72	89.18	88.54	84.23	0.00
% PF	82.95	82.70	81.74	77.55	67.77	45.97	24.03
AMPS	27.33	25.08	21.89	17.22	13.23	10.25	9.23

TORQUE(FL) N-m                    108.3    TORQUE(LR)%FL                    231    TORQUE(BD)%FL                    221  
 AMPS(LR 400V)                    127.3    PF AT START                    24.03%

**Other Useful Information for Application:**

Rotor Inertia (Kg-m <sup>2</sup> ) :	0.17342
Max load inertia (Kg-m <sup>2</sup> ):	8.356
Load Type:	Square Torque/Speed Characteristic
Voltage:	100%
Number of starts per hour:	2 Cold or 1 Hot
Acceleration Time with maximum inertia (sec):	4.7
Safe stall time (sec): Cold/Hot	30.2/12.3



