



PRODUCT-DETAILS

# 3GAA251230-HSK

## IE3 Premium Efficiency Aluminum Motors, 90 kW, 400 V (3GAA251230-HSK)



General Information	
Product ID	3GAA251230-HSK
ABB Type Designation	M3AA 250SMC 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 90 kW, 400 V (3GAA251230-HSK)

Ordering	
ABB Type Designation	M3AA 250SMC 2
Invoice Description	M3AA 250SMC 2
Product Name	3-Phase squirrel cage motor
Product Type	3AA3 _M3AA_IE3_AA
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI) Poland (PL)
Customs Tariff Number	85015381
Replaced Product ID (OLD)	3GAA251053-HSK
Medium Description	90kW, 2 Poles, Frame Size 250, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA251230-HSK)

Short Description

90kW, 2P, Frame Size 250, 3PH, 400V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	90.00 kW	2975 r/min	156.00 A	0.870	95.00 %	288.60 N·m	8.50
D	--	50 Hz	230 V	90.00 kW	2975 r/min	270.00 A	0.870	95.00 %	288.60 N·m	8.50
Y	--	50 Hz	380 V	90.00 kW	2971 r/min	161.00 A	0.890	95.00 %	288.94 N·m	7.80
D	--	50 Hz	220 V	90.00 kW	2971 r/min	279.00 A	0.890	95.00 %	288.94 N·m	7.80
Y	--	50 Hz	415 V	90.00 kW	2977 r/min	154.00 A	0.850	95.00 %	288.38 N·m	8.90
Y	--	60 Hz	460 V	90.00 kW	3578 r/min	136.00 A	0.870	95.00 %	240.00 N·m	9.60

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	90 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 95.0 % Partial Load (50%) 94.3 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 94.8 % Partial Load (50%) 94.0 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	2
Two Speed Motor	No
Type of Duty	S1
Voltage Code	S

Mechanical

Frame Material	Aluminum
Frame Size	250
Bearing	6315-2Z/C3
Bearing NDE	6213-2Z/C3
IM Class	IMB35 IM2001
Terminator Box Location	D-End top

Dimensions	
Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	884 mm
Product Net Height	601 mm
Product Net Width	473 mm
Product Net Weight	414 kg
Gross Weight	424 kg

Environmental	
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

Classifications	
UNSPSC	26101100

Categories	
Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors	

