



PRODUCT-DETAILS

# 3GAA254230-BEG

## IE2 High Efficiency Aluminum Motors, 45 kW, 500 V (3GAA254230-BEG)



General Information	
Product ID	3GAA254230-BEG
ABB Type Designation	M3AA 250SMC 8
Catalog Description	IE2 High Efficiency Aluminum Motors, 45 kW, 500 V (3GAA254230-BEG)

Ordering	
ABB Type Designation	M3AA 250SMC 8
Invoice Description	M3AA 250SMC 8
Product Name	3-Phase squirrel cage motor
Product Type	3AA2__M3AA_IE2_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	85015290
Replaced Product ID (OLD)	3GAA254033-BEG
Medium Description	45kW, 8 Poles, Frame Size 250, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA254230-BEG)

Short Description

45kW, 8P, Frame Size 250, 3PH, 500V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	45.00 kW	738 r/min	76.20 A	0.740	92.10 %	582.00 N·m	5.60
D	--	60 Hz	575 V	45.00 kW	891 r/min	65.40 A	0.740	92.30 %	482.00 N·m	6.40

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	500 V
Frequency (f)	50 Hz
Output Power	45 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 92.1 % Partial Load (75%) 93.4 % Partial Load (50%) 93.4 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 92.3 % Partial Load (75%) 92.9 % Partial Load (50%) 92.3 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	8
Two Speed Motor	No
Type of Duty	S1
Voltage Code	E

Mechanical

Frame Material	Aluminum
Frame Size	250
Bearing	6315-2Z/C3
Bearing NDE	6213-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	884 mm
Product Net Height	595 mm
Product Net Width	473 mm
Product Net Weight	367 kg

Gross Weight	377 kg
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Environmental

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

Classifications

UNSPSC	26101100
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Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE2 High Efficiency Aluminum Motors

