



PRODUCT-DETAILS

# 3GAA253220-BEK

## IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-BEK)



General Information	
Product ID	3GAA253220-BEK
ABB Type Designation	M3AA 250SMB 6
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-BEK)

Ordering	
ABB Type Designation	M3AA 250SMB 6
Invoice Description	M3AA 250SMB 6
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	85015290
Replaced Product ID (OLD)	3GAA253052-BEK
Medium Description	45kW, 6 Poles, Frame Size 250, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA253220-BEK)

Short Description

45kW, 6P, 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	991 r/min	69.90 A	0.790	94.10 %	433.21 N·m	8.00
D	--	60 Hz	575 V	45.00 kW	1193 r/min	62.00 A	0.770	94.60 %	361.70 N·m	8.30

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 IE3 Full Load (100%) 94.1 % Partial Load (75%) 94.2 % Partial Load (50%) 93.6 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 94.6 % Partial Load (75%) 94.5 % Partial Load (50%) 93.6 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	6
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	601 mm
Product Net Width	473 mm
Product Net Weight	389 kg

Gross Weight 399 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

