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 PRODUCT-DETAILS

## 3GAA161420-AEK

### IE3 Premium Efficiency Aluminum Motors, 15 kW, 500 V (3GAA161420-AEK)




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**General Information**

Product ID	3GAA161420-AEK
ABB Type Designation	M3AA 160MLB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 15 kW, 500 V (3GAA161420-AEK)

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**Ordering**

ABB Type Designation	M3AA 160MLB 2
Invoice Description	M3AA 160MLB 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	85015230
Replaced Product ID	3GAA161052-AEK

(OLD)

Medium Description	15kW, 2 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA161420-AEK)
Short Description	15kW, 2P, Frame Size 160, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

## Electrical

### Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	15.00 kW	2947 r/min	21.40 A	0.880	91.90 %	48.60 N·m	8.20
D	--	60 Hz	575 V	15.00 kW	3553 r/min	18.60 A	0.890	91.00 %	40.30 N·m	8.30

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	500 V
Frequency (f)	50 Hz
Output Power	15 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 91.9 % Partial Load (75%) 92.2 % Partial Load (50%) 91.8 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 91.0 % Partial Load (75%) 90.9 % Partial Load (50%) 89.7 %
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	E

## Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

## Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	681 mm
Product Net Height	370 mm

Product Net Width	310 mm
Product Net Weight	123 kg
Gross Weight	133 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)

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### Classifications

UNSPSC	26101100
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### Categories

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

