



PRODUCT-DETAILS

# 3GAA181410-BEK

## IE3 Premium Efficiency Aluminum Motors, 22 kW, 500 V (3GAA181410-BEK)



General Information	
Product ID	3GAA181410-BEK
ABB Type Designation	M3AA 180MLA 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 22 kW, 500 V (3GAA181410-BEK)

Ordering	
ABB Type Designation	M3AA 180MLA 2
Invoice Description	M3AA 180MLA 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 (OLD)	3GAA181051-BEK
Medium Description	22kW, 2 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA181410-BEK)

Short Description

22kW, 2P, Frame Size 180, 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	22.00 kW	2956 r/min	30.10 A	0.900	92.70 %	70.98 N·m	7.80
D	--	60 Hz	575 V	22.00 kW	3562 r/min	26.40 A	0.890	91.70 %	58.92 N·m	9.70

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	500 V
Frequency (f)	50 Hz
Output Power	22 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 92.7 % Partial Load (75%) 93.1 % Partial Load (50%) 92.7 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 91.7 % Partial Load (75%) 91.6 % Partial Load (50%) 90.1 %
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	180
Bearing	6310-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Width	341 mm
Product Net Weight	176 kg

Gross Weight	186 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 → IE3 Premium Efficiency Aluminum Motors

