

PRODUCT-DETAILS

# 3GAA201430-BDK

## IE3 Premium Efficiency Aluminum Motors, 45 kW, 400 V (3GAA201430-BDK)



General Information

Product ID	3GAA201430-BDK
ABB Type Designation	M3AA 200MLC 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 45 kW, 400 V (3GAA201430-BDK)

Ordering

ABB Type Designation	M3AA 200MLC 2
Invoice Description	M3AA 200MLC 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) China (CN) Poland (PL)
Customs Tariff Number	85015290
Replaced Product ID (OLD)	3GAA201053-BDK
Stocked At (Warehouses)	Menden, Germany
Medium Description	45kW, 2 Poles, Frame Size 200, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA201430-BDK)

Short Description45kW, 2P, Frame Size 200, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	45.00 kW	2956 r/min	44.60 A	0.890	94.00 %	145.24 N·m	7.80
D	--	50 Hz	400 V	45.00 kW	2956 r/min	77.20 A	0.890	94.00 %	145.24 N·m	7.80
Y	--	50 Hz	660 V	45.00 kW	2950 r/min	46.50 A	0.900	94.00 %	145.51 N·m	7.00
D	--	50 Hz	380 V	45.00 kW	2950 r/min	80.60 A	0.900	94.00 %	145.51 N·m	7.00
D	--	50 Hz	415 V	45.00 kW	2959 r/min	75.10 A	0.880	94.00 %	145.06 N·m	8.40
D	--	60 Hz	460 V	45.00 kW	3563 r/min	66.80 A	0.890	93.60 %	120.60 N·m	8.70

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 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%) 94.0 % Partial Load (75%) 94.5 % Partial Load (50%) 94.5 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 93.9 % Partial Load (50%) 93.7 %
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	D

Mechanical

Frame Material	Aluminum
Frame Size	200
Bearing	6312-2Z/C3
Bearing NDE	6210-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	821 mm
Product Net Height	532 mm

Product Net Width	380 mm
Product Net Weight	250 kg
Gross Weight	260 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
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Categories

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

