

PRODUCT-DETAILS

## 3GAA252220-BDG

IE2 High Efficiency Aluminum Motors, 75 kW,  
400 V (3GAA252220-BDG)



### General Information

Product ID	3GAA252220-BDG
ABB Type Designation	M3AA 250SMB 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 75 kW, 400 V (3GAA252220-BDG)

### Additional Information

ABB Type Designation	M3AA 250SMB 4
Altitude	1000 m
Ambient Temperature	40 °C
Bearing	6315-2Z/C3
Bearing NDE	6213-2Z/C3
Connection Configuration	D
Country of Origin	Finland (FI) Poland (PL)
Customs Tariff Number	85015290
Direction of Rotation	Both sides
Electrical Data	

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	75.00 kW	1478 r/min	77.70 A	0.850	94.40 %	484.00 N-m	7.30
D	--	50 Hz	400 V	75.00 kW	1478 r/min	134.00 A	0.850	94.40 %	484.00 N-m	7.30
D	--	50 Hz	415 V	75.00 kW	1480 r/min	133.00 A	0.830	94.40 %	484.00 N-m	7.60
D	--	60 Hz	440 V	75.00 kW	1779 r/min	119.00 A	0.870	94.60 %	402.00 N-m	7.70
D	--	60 Hz	460 V	75.00 kW	1782 r/min	116.00 A	0.850	94.80 %	401.00 N-m	8.40
Y	--	50 Hz	690 V	69.00 kW	1480 r/min	73.00 A	0.840	94.40 %	444.75 N-m	7.80
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Y	--	50 Hz	690 V	69.00 kW	1480 r/min	73.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	400 V	69.00 kW	1480 r/min	126.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	400 V	69.00 kW	1480 r/min	126.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	400 V	69.00 kW	1480 r/min	126.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	400 V	69.00 kW	1480 r/min	126.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	400 V	69.00 kW	1480 r/min	126.00 A	0.840	94.40 %	444.75 N-m	7.80
D	--	50 Hz	415 V	69.00 kW	1481 r/min	124.00 A	0.820	94.50 %	444.34 N-m	8.20
D	--	50 Hz	415 V	69.00 kW	1481 r/min	124.00 A	0.820	94.50 %	444.34 N-m	8.20
D	--	50 Hz	415 V	69.00 kW	1481 r/min	124.00 A	0.820	94.50 %	444.34 N-m	8.20
D	--	50 Hz	415 V	69.00 kW	1481 r/min	124.00 A	0.820	94.50 %	444.34 N-m	8.20
D	--	50 Hz	415 V	69.00 kW	1481 r/min	124.00 A	0.820	94.50 %	444.34 N-m	8.20
D	--	60 Hz	440 V	69.00 kW	1780 r/min	113.00 A	0.850	94.50 %	369.79 N-m	8.60
D	--	60 Hz	440 V	69.00 kW	1780 r/min	113.00 A	0.850	94.50 %	369.79 N-m	8.60
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D	--	60 Hz	440 V	69.00 kW	1780 r/min	113.00 A	0.850	94.50 %	369.79 N-m	8.60
D	--	60 Hz	440 V	69.00 kW	1780 r/min	113.00 A	0.850	94.50 %	369.79 N-m	8.60
D	--	60 Hz	460 V	69.00 kW	1781 r/min	111.00 A	0.830	94.50 %	369.45 N-m	9.10
D	--	60 Hz	460 V	69.00 kW	1781 r/min	111.00 A	0.830	94.50 %	369.45 N-m	9.10
D	--	60 Hz	460 V	69.00 kW	1781 r/min	111.00 A	0.830	94.50 %	369.45 N-m	9.10
D	--	60 Hz	460 V	69.00 kW	1781 r/min	111.00 A	0.830	94.50 %	369.45 N-m	9.10

Frame Material Aluminum  
 Frame Size 250

Frequency (f)	50 Hz
Gross Weight	360 kg
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 94.4 % Partial Load (75%) 94.6 % Partial Load (50%) 94.1 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 94.5 % Partial Load (75%) 94.4 % Partial Load (50%) 93.3 %
IM Class	IMB5 IM3001
Input Voltage (U <sub>in</sub> )	400 V
Insulation Class	ICLF
Invoice Description	M3AA 250SMB 4
IP Class	IP55
Made To Order	No
Medium Description	75kW, 4 Poles, Frame Size 250, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA252220-BDG)
Minimum Order Quantity	1 piece
Number of Poles (High)	4
Order Multiple	1 piece
Output Power	75 kW
Package Level 1 Units	0 pallet (lift)
Product Name	3-Phase squirrel cage motor
Product Net Depth / Length	884 mm
Product Net Height	595 mm
Product Net Weight	350 kg
Product Net Width	473 mm
Product Type	3AA2_M3AA_IE2_AA
Quote Only	No
Replaced Product ID (OLD)	3GAA252032-BDG
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)
Selling Unit of Measure	piece
Short Description	75kW, 4P, Frame Size 250, 3PH, 400V, 50Hz, IP55, IMB5/IM3001
Stocked At (Warehouses)	Menden, Germany
Temperature Class Default	--
Terminator Box Location	D-End top
Two Speed Motor	No
Type of Duty	S1
UNSPSC	26101100
Voltage Code	D
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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## Categories

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

