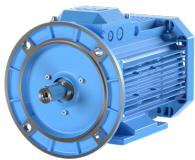


PRODUCT-DETAILS

# 3GAA091520-HSE436

## IE2 High Efficiency Aluminum Motors, 2.2 kW, 400 V (3GAA091520-HSE436)



General Information	
Product ID	3GAA091520-HSE436
ABB Type Designation	M3AA 90LB 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 2.2 kW, 400 V (3GAA091520-HSE436)

Ordering	
ABB Type Designation	M3AA 90LB 2
Invoice Description	M3AA 90LB 2
Product Name	3-Phase squirrel cage motor
Product Type	3AA2__M3AA_IE2_AA
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Poland (PL) Romania (RO)
Customs Tariff Number	85015220
Stocked At (Warehouses)	Menden, Germany
Medium Description	2.2kW, 2P, Frame Size 90, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA091520-HSE436)

Short Description

2.2kW, 2P, Frame Size 90, 3PH, 400V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	400 V	2.20 kW	2870 r/min	4.40 A	0.860	84.60 %	7.30 N·m	6.90
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	230 V	2.20 kW	2870 r/min	7.65 A	0.860	84.60 %	7.30 N·m	6.90
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
Y	--	50 Hz	380 V	2.20 kW	2860 r/min	4.50 A	0.870	84.20 %	7.30 N·m	6.30
Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
D	--	50 Hz	220 V	2.20 kW	2861 r/min	7.80 A	0.870	84.20 %	7.30 N·m	6.80
Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20

Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20
Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20
Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20
Y	--	50 Hz	415 V	2.20 kW	2890 r/min	4.30 A	0.850	84.60 %	7.30 N·m	7.20
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U <sub>in</sub> )										400 V
Frequency (f)										50 Hz
Output Power										2.2 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 84.2 % Partial Load (75%) 85.9 % Partial Load (50%) 86.5 %
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										S

Mechanical

Frame Material	Aluminum
Frame Size	90
Bearing	6205-2Z/C3
Bearing NDE	6204-2Z/C3
IM Class	IMB35 IM2001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 carton
Product Net Depth / Length	331.5 mm
Product Net Height	217 mm
Product Net Width	177 mm
Product Net Weight	18 kg
Gross Weight	21 kg

Environmental

WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
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**Classifications**

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UNSPSC	26101100
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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

