



PRODUCT-DETAILS

# 3GAA182410-BSG

## IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA182410-BSG)



General Information	
Product ID	3GAA182410-BSG
ABB Type Designation	M3AA 180MLA 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA182410-BSG)

Ordering	
ABB Type Designation	M3AA 180MLA 4
Invoice Description	M3AA 180MLA 4
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	Finland (FI) Poland (PL)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA182061-BSA 3GAA182031-BSG
Medium Description	18.5kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA182410-BSG)

Short Description

18.5kW, 4P, Frame Size 180, 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	400 V	18.50 kW	1477 r/min	34.50 A	0.840	91.90 %	119.00 N-m	7.20
D	--	50 Hz	230 V	18.50 kW	1477 r/min	60.30 A	0.840	91.90 %	119.00 N-m	7.20
Y	--	50 Hz	415 V	18.50 kW	1479 r/min	34.00 A	0.820	92.10 %	119.00 N-m	7.70
Y	--	60 Hz	440 V	18.50 kW	1778 r/min	30.90 A	0.850	92.30 %	99.30 N-m	7.60
Y	--	60 Hz	460 V	18.50 kW	1781 r/min	30.20 A	0.830	92.50 %	99.10 N-m	8.20

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	18.5 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 91.9 % Partial Load (75%) 92.9 % Partial Load (50%) 92.7 %
IE Class Data (60 Hz)	IE Class IE1 Full Load (100%) 92.3 % Partial Load (75%) 92.8 % Partial Load (50%) 92.1 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	4
Two Speed Motor	No
Type of Duty	S1
Voltage Code	S

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)
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Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Width	354 mm
Product Net Weight	146 kg
Gross Weight	156 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 → IE2 High Efficiency Aluminum Motors

