

PRODUCT-DETAILS

3GAA223230-ADG

IE2 High Efficiency Aluminum Motors, 45 kW,
400 V (3GAA223230-ADG)



General Information

Product ID	3GAA223230-ADG
ABB Type Designation	M3AA 225SMC 6
Catalog Description	IE2 High Efficiency Aluminum Motors, 45 kW, 400 V (3GAA223230-ADG)

Additional Information

ABB Type Designation	M3AA 225SMC 6
Altitude	1000 m
Ambient Temperature	40 °C
Bearing	6313-2Z/C3
Bearing NDE	6212-2Z/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	45.00 kW	984 r/min	48.90 A	0.830	92.60 %	436.00 N-m	6.40
D	--	50 Hz	400 V	45.00 kW	984 r/min	84.40 A	0.830	92.60 %	436.00 N-m	6.40
D	--	50 Hz	415 V	45.00 kW	985 r/min	82.10 A	0.820	92.80 %	436.00 N-m	6.90
D	--	60 Hz	440 V	45.00 kW	1185 r/min	76.20 A	0.830	93.30 %	362.00 N-m	6.70
D	--	60 Hz	460 V	45.00 kW	1187 r/min	73.50 A	0.820	93.60 %	362.00 N-m	7.30
Y	--	50 Hz	690 V	42.00 kW	990 r/min	47.00 A	0.820	92.80 %	406.44 N-m	6.80
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Y	--	50 Hz	690 V	42.00 kW	990 r/min	47.00 A	0.820	92.80 %	406.44 N-m	6.80
D	--	50 Hz	400 V	42.00 kW	990 r/min	80.90 A	0.820	92.80 %	406.44 N-m	6.80
D	--	50 Hz	400 V	42.00 kW	990 r/min	80.90 A	0.820	92.80 %	406.44 N-m	6.80
D	--	50 Hz	400 V	42.00 kW	990 r/min	80.90 A	0.820	92.80 %	406.44 N-m	6.80
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D	--	50 Hz	400 V	42.00 kW	990 r/min	80.90 A	0.820	92.80 %	406.44 N-m	6.80
D	--	50 Hz	415 V	42.00 kW	991 r/min	80.00 A	0.800	92.80 %	405.98 N-m	7.10
D	--	50 Hz	415 V	42.00 kW	991 r/min	80.00 A	0.800	92.80 %	405.98 N-m	7.10
D	--	50 Hz	415 V	42.00 kW	991 r/min	80.00 A	0.800	92.80 %	405.98 N-m	7.10
D	--	50 Hz	415 V	42.00 kW	991 r/min	80.00 A	0.800	92.80 %	405.98 N-m	7.10
D	--	50 Hz	415 V	42.00 kW	991 r/min	80.00 A	0.800	92.80 %	405.98 N-m	7.10
D	--	60 Hz	440 V	42.00 kW	1191 r/min	72.30 A	0.830	93.20 %	337.79 N-m	7.30
D	--	60 Hz	440 V	42.00 kW	1191 r/min	72.30 A	0.830	93.20 %	337.79 N-m	7.30
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D	--	60 Hz	440 V	42.00 kW	1191 r/min	72.30 A	0.830	93.20 %	337.79 N-m	7.30
D	--	60 Hz	460 V	42.00 kW	1193 r/min	70.00 A	0.820	93.30 %	337.42 N-m	7.80
D	--	60 Hz	460 V	42.00 kW	1193 r/min	70.00 A	0.820	93.30 %	337.42 N-m	7.80
D	--	60 Hz	460 V	42.00 kW	1193 r/min	70.00 A	0.820	93.30 %	337.42 N-m	7.80
D	--	60 Hz	460 V	42.00 kW	1193 r/min	70.00 A	0.820	93.30 %	337.42 N-m	7.80
D	--	60 Hz	460 V	42.00 kW	1193 r/min	70.00 A	0.820	93.30 %	337.42 N-m	7.80

Frame Material Aluminum

Frame Size 225

Frequency (f)	50 Hz
Gross Weight	310 kg
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE1 Full Load (100%) 92.6 % Partial Load (75%) 93.9 % Partial Load (50%) 94.0 %
IE Class Data (60 Hz)	IE Class IE1 Full Load (100%) 93.2 % Partial Load (75%) 93.4 % Partial Load (50%) 92.7 %
IM Class	IMB3 IM1001
Input Voltage (U _{in})	400 V
Insulation Class	ICLF
Invoice Description	M3AA 225SMC 6
IP Class	IP55
Made To Order	No
Medium Description	45kW, 6 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA223230-ADG)
Minimum Order Quantity	1 piece
Number of Poles (High)	6
Order Multiple	1 piece
Output Power	45 kW
Package Level 1 Units	0 pallet (lift)
Product Name	3-Phase squirrel cage motor
Product Net Depth / Length	850 mm
Product Net Height	547 mm
Product Net Weight	300 kg
Product Net Width	425 mm
Product Type	3AA2__M3AA_IE2_AA
Quote Only	No
Replaced Product ID (OLD)	3GAA223033-ADG
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)
Selling Unit of Measure	piece
Short Description	45kW, 6P, Frame Size 225, 3PH, 400V, 50Hz, IP55, IMB3/IM1001
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)

Categories

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

