

PRODUCT-DETAILS

3GAA183420-ADG

IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA183420-ADG)



General Information

Product ID	3GAA183420-ADG
ABB Type Designation	M3AA 180MLB 6
Catalog Description	IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA183420-ADG)

Additional Information

ABB Type Designation	M3AA 180MLB 6
Altitude	1000 m
Ambient Temperature	40 °C
Bearing	6310-2Z/C3
Bearing NDE	6209-2Z/C3
Connection Configuration	D
Country of Origin	Finland (FI) China (CN) Poland (PL)
Customs Tariff Number	85015230
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	18.50 kW	975 r/min	21.60 A	0.790	90.70 %	181.00 N-m	5.80
D	--	50 Hz	400 V	18.50 kW	975 r/min	37.20 A	0.790	90.70 %	181.00 N-m	5.80
D	--	50 Hz	415 V	18.50 kW	978 r/min	36.70 A	0.770	91.00 %	181.00 N-m	6.20
D	--	60 Hz	440 V	18.50 kW	1177 r/min	33.40 A	0.790	91.90 %	150.00 N-m	6.10
D	--	60 Hz	460 V	18.50 kW	1180 r/min	32.30 A	0.780	92.00 %	149.00 N-m	6.60
Y	--	50 Hz	690 V	16.50 kW	978 r/min	19.70 A	0.770	90.90 %	161.01 N-m	6.30
Y	--	50 Hz	690 V	16.50 kW	978 r/min	19.70 A	0.770	90.90 %	161.01 N-m	6.30
Y	--	50 Hz	690 V	16.50 kW	978 r/min	19.70 A	0.770	90.90 %	161.01 N-m	6.30
Y	--	50 Hz	690 V	16.50 kW	978 r/min	19.70 A	0.770	90.90 %	161.01 N-m	6.30
Y	--	50 Hz	690 V	16.50 kW	978 r/min	19.70 A	0.770	90.90 %	161.01 N-m	6.30
D	--	50 Hz	400 V	16.50 kW	978 r/min	34.00 A	0.770	90.90 %	161.01 N-m	6.40
D	--	50 Hz	400 V	16.50 kW	978 r/min	34.00 A	0.770	90.90 %	161.01 N-m	6.40
D	--	50 Hz	400 V	16.50 kW	978 r/min	34.00 A	0.770	90.90 %	161.01 N-m	6.40
D	--	50 Hz	400 V	16.50 kW	978 r/min	34.00 A	0.770	90.90 %	161.01 N-m	6.40
D	--	50 Hz	400 V	16.50 kW	978 r/min	34.00 A	0.770	90.90 %	161.01 N-m	6.40
D	--	50 Hz	415 V	16.50 kW	979 r/min	33.60 A	0.750	91.00 %	160.78 N-m	6.70
D	--	50 Hz	415 V	16.50 kW	979 r/min	33.60 A	0.750	91.00 %	160.78 N-m	6.70
D	--	50 Hz	415 V	16.50 kW	979 r/min	33.60 A	0.750	91.00 %	160.78 N-m	6.70
D	--	50 Hz	415 V	16.50 kW	979 r/min	33.60 A	0.750	91.00 %	160.78 N-m	6.70
D	--	50 Hz	415 V	16.50 kW	979 r/min	33.60 A	0.750	91.00 %	160.78 N-m	6.70
D	--	60 Hz	440 V	16.50 kW	1177 r/min	30.30 A	0.780	91.40 %	133.71 N-m	6.60
D	--	60 Hz	440 V	16.50 kW	1177 r/min	30.30 A	0.780	91.40 %	133.71 N-m	6.60
D	--	60 Hz	440 V	16.50 kW	1177 r/min	30.30 A	0.780	91.40 %	133.71 N-m	6.60
D	--	60 Hz	440 V	16.50 kW	1177 r/min	30.30 A	0.780	91.40 %	133.71 N-m	6.60
D	--	60 Hz	460 V	16.50 kW	1179 r/min	29.70 A	0.760	91.50 %	133.53 N-m	7.10
D	--	60 Hz	460 V	16.50 kW	1179 r/min	29.70 A	0.760	91.50 %	133.53 N-m	7.10
D	--	60 Hz	460 V	16.50 kW	1179 r/min	29.70 A	0.760	91.50 %	133.53 N-m	7.10
D	--	60 Hz	460 V	16.50 kW	1179 r/min	29.70 A	0.760	91.50 %	133.53 N-m	7.10

Frame Material	Aluminum
Frame Size	180
Frequency (f)	50 Hz
Gross Weight	172 kg
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 90.7 % Partial Load (75%) 92.0 %

IE Class Data (60 Hz)	Partial Load (50%) 92.0 % IE Class IE2 Full Load (100%) 91.4 % Partial Load (75%) 91.4 % Partial Load (50%) 90.1 %
IM Class	IMB3 IM1001
Input Voltage (U _{in})	400 V
Insulation Class	ICLF
Invoice Description	M3AA 180MLB 6
IP Class	IP55
Made To Order	No
Medium Description	18.5kW, 6 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA183420-ADG)
Minimum Order Quantity	1 piece
Number of Poles (High)	6
Order Multiple	1 piece
Output Power	18.5 kW
Package Level 1 Units	0 pallet (lift)
Product Name	3-Phase squirrel cage motor
Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Weight	162 kg
Product Net Width	354 mm
Product Type	3AA2 M3AA IE2 AA
Quote Only	No
Replaced Product ID (OLD)	3GAA183420-ADA 3GAA183034-ADG
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)
Selling Unit of Measure	piece
Short Description	18.5kW, 6P, Frame Size 180, 3PH, 400V, 50Hz, IP55, IMB3/IM1001
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)

Categories

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

