



PRODUCT-DETAILS

3GBA161430-ADC
IE2 High Efficiency Cast Iron Motors, 18.5 kW,
400 V (3GBA161430-ADC)



General Information

Product ID	3GBA161430-ADC
ABB Type Designation	M2BAX 160MLC 2
Catalog Description	IE2 High Efficiency Cast Iron Motors. 18.5 kW, 400 V (3GBA161430-ADC)

Ordering

ABB Type Designation	M2BAX 160MLC 2
Invoice Description	M2BAX 160MLC 2
Product Name	3-Phase squirrel cage motor
Product Type	EBA2__M2BAX_CI
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Poland (PL) China (CN)
Customs Tariff Number	85015230
Stocked At (Warehouses)	Menden, Germany Shanghai, China

Medium Description	18.5kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure,
--------------------	--

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	18.50 kW	2939 r/min	19.40 A	0.870	90.90 %	60.13 N·m	7.90
D	--	50 Hz	400 V	18.50 kW	2939 r/min	33.40 A	0.870	90.90 %	60.13 N·m	7.90
Y	--	50 Hz	660 V	18.50 kW	2932 r/min	19.80 A	0.890	90.90 %	60.13 N·m	7.90
D	--	50 Hz	380 V	18.50 kW	2932 r/min	34.40 A	0.890	90.90 %	60.13 N·m	7.90
D	--	60 Hz	440 V	18.50 kW	3540 r/min	30.20 A	0.870	91.00 %	49.79 N·m	9.20
D	--	60 Hz	460 V	18.50 kW	3546 r/min	29.40 A	0.860	91.00 %	49.72 N·m	9.90

Connection Configuration	D
Temperature Class	--
Default	
Input Voltage (U _{in})	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%) 90.9 % Partial Load (75%) 91.0 % Partial Load (50%) 90.3 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 91.0 % Partial Load (75%) 90.4 % Partial Load (50%) 89.1 %
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	D

Mechanical

Frame Material	Cast Iron
Frame Size	160
Bearing	6209-2Z/C3
Bearing NDE	6209-2Z/C3
Lubrication	For life
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	586.5 mm
Product Net Height	414 mm
Product Net Width	338 mm
Product Net Weight	124 kg
Gross Weight	134 kg

Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
SCIP	d19446d4-4db6-4ddb-826d-2341a0f7dd46 Finland (FI)

Classifications

Standards	IEC 60034-1
UNSPSC	26101100

Categories

Motors and Generators → IEC Low Voltage AC Motors → General Performance Motors → IE2 High Efficiency Cast Iron Motors

