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**PRODUCT-DETAILS**

## 3GBA182410-BDN

### IE4 Super Premium Efficiency Cast Iron Motors, 18.5 kW, 400 V (3GBA182410-BDN)



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**General Information**

<b>Product ID:</b>	3GBA182410-BDN
<b>ABB Type Designation:</b>	M2BAX 180MLA 4
<b>Catalog Description:</b>	IE4 Super Premium Efficiency Cast Iron Motors, 18.5 kW, 400 V (3GBA182410-BDN)
<b>Display Name:</b>	3GBA182410-BDN

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**Ordering**

<b>ABB Type Designation:</b>	M2BAX 180MLA 4
<b>Invoice Description:</b>	M2BAX 180MLA 4
<b>Product Name:</b>	3-Phase squirrel cage motor
<b>Product Type:</b>	EBA4__M2BAX_CI
<b>Country of Origin:</b>	China
<b>Customs Tariff Number:</b>	85015230
<b>Stocked At (Warehouses):</b>	Menden, Germany

**Medium Description:** 18.5kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GBA182410-BDN)

**Short Description:** 18.5kW, 4P, Frame Size 180, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

## Electrical

Conn	Temp Class	Network Freq	Network Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	18.50 kW	1479 r/min	20.30 A	0.810	94.20 %	119.00 N-m	9.20
D	--	50 Hz	400 V	18.50 kW	1479 r/min	35.00 A	0.810	94.20 %	119.00 N-m	9.20
Y	--	50 Hz	660 V	18.50 kW	1476 r/min	20.50 A	0.840	94.20 %	119.00 N-m	8.50
D	--	50 Hz	380 V	18.50 kW	1476 r/min	35.50 A	0.840	94.20 %	119.00 N-m	8.50

**Connection Configuration:** D

**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 IE4  
Full Load (100%) 94.2 %  
Partial Load (75%) 94.3 %  
Partial Load (50%) 93.5 %

**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:** D

## Mechanical

**Frame Material:** Cast Iron

**Frame Size:** 180

**Bearing:** 6310-2Z/C3

**Bearing NDE:** 6210-2Z/C3

**IM Class:** IMB5 IM3001

**Terminator Box Location:** D-End top

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**Dimensions**

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<b>Product Net Depth / Length:</b>	729 mm
<b>Product Net Height:</b>	453 mm
<b>Product Net Width:</b>	340 mm
<b>Product Net Weight:</b>	193 kg
<b>Gross Weight:</b>	203 kg

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**Environmental**

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<b>WEEE Category:</b>	4. Large Equipment (Any External Dimension More Than 50 cm)
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**External Classifications and Standards**

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<b>UNSPSC:</b>	26101100
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**Categories**

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Products > Motors and Generators > IEC Low Voltage AC Motors > General Performance Motors > IE4 Super Premium Efficiency Cast Iron Motors

