

PRODUCT-DETAILS

# 3GAA182410-BDK

## IE3 Premium Efficiency Aluminum Motor, 18.5 kW, 400 V (3GAA182410-BDK)




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### General Information

|                      |  |
|----------------------|--|
| Product ID           | 3GAA182410-BDK   |
| ABB Type Designation | M3AA 180MLA 4  |
| Catalog Description  | IE3 Premium Efficiency Aluminum Motor, 18.5 kW, 400 V (3GAA182410-BDK) |

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### Additional Information

|                          |   |
|--------------------------|---|
| ABB Type Designation     | M3AA 180MLA 4                             |
| Altitude                 | 1000 m                                    |
| Ambient Temperature      | 40 °C                                     |
| Bearing                  | 6310-2Z/C3                                |
| Bearing NDE              | 6209-2Z/C3                                |
| Connection Configuration | D   |
| Country of Origin        | Poland (PL)<br>Finland (FI)<br>China (CN) |
| 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 | 1481 r/min | 20.10 A | 0.830        | 92.60 %    | 119.30 N-m | 7.20  |
| D    | --         | 50 Hz | 400 V   | 18.50 kW | 1481 r/min | 34.90 A | 0.830        | 92.60 %    | 119.30 N-m | 7.20  |
| Y    | --         | 50 Hz | 660 V   | 18.50 kW | 1477 r/min | 20.90 A | 0.840        | 92.60 %    | 119.50 N-m | 6.50  |
| D    | --         | 50 Hz | 380 V   | 18.50 kW | 1477 r/min | 36.30 A | 0.840        | 92.60 %    | 119.50 N-m | 6.50  |
| D    | --         | 50 Hz | 415 V   | 18.50 kW | 1482 r/min | 33.80 A | 0.820        | 92.60 %    | 119.17 N-m | 7.80  |
| D    | --         | 60 Hz | 460 V   | 18.50 kW | 1783 r/min | 30.30 A | 0.820        | 93.60 %    | 99.04 N-m  | 8.40  |

|                                  |  |
|----------------------------------|--|
| Frame Material                   | Aluminum   |
| Frame Size                       | 180  |
| Frequency (f)                    | 50 Hz  |
| Gross Weight                     | 187 kg   |
| IC Class                         | IC411  |
| IE Class Data (50 Hz)            | IE Class IE3<br>Full Load (100%) 92.6 %<br>Partial Load (75%) 93.1 %<br>Partial Load (50%) 92.6 %            |
| IE Class Data (60 Hz)            | IE Class IE3<br>Full Load (100%) 93.6 %<br>Partial Load (75%) 93.7 %<br>Partial Load (50%) 92.9 %            |
| IM Class                         | IMB5 IM3001  |
| Input Voltage (U <sub>in</sub> ) | 400 V  |
| Insulation Class                 | ICLF   |
| Invoice Description              | M3AA 180MLA 4  |
| IP Class                         | IP55   |
| Made To Order                    | No   |
| Medium Description               | 18.5kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA182410-BDK) |
| Minimum Order Quantity           | 1 piece  |
| Number of Poles (High)           | 4  |
| 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               | 177 kg   |
| Product Net Width                | 341 mm   |
| Product Type                     | 3AA3 M3AA IE3 AA   |
| Quote Only                       | No   |
| Replaced Product ID (OLD)        | 3GAA182051-BDK   |
| SCIP                             | 27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)  |
| Selling Unit of Measure          | piece  |
| Short Description                | 18.5kW, 4P, Frame Size 180, 3PH, 400V, 50Hz, IP55, IMB5/IM3001   |
| Stocked At (Warehouses)          | Menden, Germany<br>Sant Quirze del Vallés - BCN, Spain   |
| 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)  |

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## Categories

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Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors

