




---

 PRODUCT-DETAILS

# 3GBL282233-BUC

## IE5 SynRM Motors, 110 kW, 690 V (3GBL282233-BUC)




---

**General Information**

Product ID	3GBL282233-BUC
ABB Type Designation	M3BL 280SMC 4
Catalog Description	IE5 SynRM Motors, 110 kW, 690 V (3GBL282233-BUC)

---

**Ordering**

ABB Type Designation	M3BL 280SMC 4
Invoice Description	M3BL 280SMC 4
Product Name	3-Phase synchronous motor
Product Type	3BL4__M3BL_IE5_SynRM_CI
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI)
Customs Tariff Number	85015381
Medium Description	110kW, 4 Poles, Frame Size 280, 3 Phases, 690V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GBL282233-BUC)
Short Description	110kW, 4P, Frame Size 280, 3PH, 690V, 50Hz, IP55, IMB5/IM3001

## Electrical

### Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	Operational Voltage
Y	--	50 Hz	690 V	110.00 kW	1500 r/min	133.00 A	0.770	96.60 %	700.28 N·m	0.00	650 V

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	690 V
Frequency (f)	50 Hz
Motor Operational Voltage	650 V
Output Power	110 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE5 Full Load (100%) 96.6 % Partial Load (75%) 96.4 % Partial Load (50%) 95.7 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	4
Two Speed Motor	No
Type of Duty	S9
Voltage Code	U

## Mechanical

Frame Material	Cast Iron
Frame Size	280
Bearing	6316/C3
Bearing NDE	6316/C3VL0241
IM Class	IMB5 IM3001
Terminator Box Location	Top

## Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	1088 mm
Product Net Height	762 mm
Product Net Width	577 mm
Product Net Weight	697 kg
Gross Weight	717 kg

## Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
---------------	---

## Circular Value

ABB EcoSolutions	Yes
------------------	-----

Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	Recycled Metal - 29 %
Group Waste to Landfill Target	No non-hazardous waste is sent to a landfill
Improved Resource Efficiency for Customers	Digital Efficiency - Product is digitally-supported to optimize usage and eventually optimize customer asset
Offered with Extended Lifetime	Lifetime Extension Services are Offered
End of Life Instructions	3GZW500930-3

---

### Eco Transparency

Environmental Product Declaration - EPD	9AAU00000000027
--	-----------------

---

### Classifications

UNSPSC	26101100
--------	----------

---

### Categories

Motors and Generators → IEC Low Voltage AC Motors → Synchronous Reluctance Motors → IE5 SynRM Motors

