

EME5 | MAIN AND EMERGENCY ON/OFF SWITCHES

Mounting and operating instructions



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SAFETY AND PRECAUTIONS



Read all the information, the datasheet, mounting and operating instructions and study the wiring and connection diagram before working with the product. For personal and equipment safety, and for optimum product performance, make sure you entirely understand the contents before installing, using, or maintaining this product.



For safety and licensing (CE) reasons, unauthorised conversion and /or modifications of the product are inadmissible.



The product should not be exposed to abnormal conditions, such as: extreme temperatures, direct sunlight or vibrations. Long-term exposure to chemical vapours in high concentration can affect the product performance. Make sure the work environment is as dry as possible; avoid condensation.



All installations shall comply with local health and safety regulations and local electrical standards and approved codes. This product can only be installed by an engineer or a technician who has expert knowledge of the product and safety precautions.



Avoid contacts with energised electrical parts. Always disconnect the power supply before connecting, servicing or repairing the product.



Always verify that you apply appropriate power supply to the product and use appropriate wire size and characteristics. Make sure that all the screws and nuts are well tightened and fuses (if any) are fitted well.



Recycling of equipment and packaging should be taken into consideration and these should be disposed of in accordance with local and national legislation / regulations.



In case there are any questions that are not answered, please contact your technical support or consult a professional.

PRODUCT DESCRIPTION

EME5 are surface mountable rotary isolator switches intended for commercial / industrial applications. The switchgear is housed in a moulded enclosure with an IP65 sealing. The EME5 series includes variants providing additional contacts (NO and NC type).

ARTICLE CODES

Article code	Switching diagram	Operational current AC21A*	Operational power 400 VAC/AC3*	Poles	Article codes	
					NO contact	NC contact
EME5-20-2100	61192	20 A	2,2 kW	2	-	-
EME5-20-4100	61194	20 A	3,7 kW	4	-	-
EME5-20-2111	41211	20 A	3 kW	2	1	1
EME5-20-4111	41411	20 A	5,5 kW	4	1	1
EME5-40-4111	41411	40 A	15 kW	4	1	1
EME5-63-4111	41411	63 A	30 kW	4	1	1

***Application categories:**

- AC21A Switching resistive loads including low overloads
- AC3 Squirrel-cage motors: starting, switching off, running motors

INTENDED AREA OF USE

- Security switches for fans and HVAC equipment (e.g. roof fans, box fans, air handling units etc.)
- Suitable for use as on/off or maintenance switches

TECHNICAL DATA

- 90° switching angle
- Product variants featuring NO and NC auxiliary contacts
- Easy cable connection via M20/25 knockouts
- Forced open contacts
- Fulfills load break requirements up to 690 VAC
- Terminal screws in open position
- 3x padlockable in off-position
- Protection standard: IP65 (according to EN 60529)
- Ambient conditions:
 - ▶ Temperature: 25—40 °C
 - ▶ Rel. humidity: ≤50% rH (at +40 °C); ≤90% rH (at +20 °C) (non-condensing)

STANDARDS

-    **CB**

SWITCHING DIAGRAMS

Switching diagram 41211		Switching diagram 41411																													
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WIRING AND CONNECTIONS

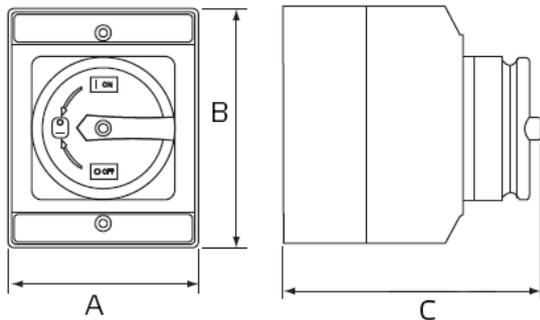
EME5-20-2100 and EME5-20-4100	
1/L1, 3/L2, 5/L3	Input connections
7/L4	Input, neutral (if connected to L4 the circuit is broken when the switch is in OFF position)
N	Input, neutral (if connected to N the circuit is not broken when the switch is in OFF position)
2/T1, 4/T2, 6/T3	Output connections
8/T4	Output, neutral (if connected to L4 the circuit is broken when the switch is in OFF position)
N	Output, neutral (if connected to N the circuit is not broken when the switch is in OFF position)
	Protective earth
EME5-20-2111, EME5-20-4111, EME5-40-4111 and EME5-63-4111	
1/L1, 3/L2, 5/L3	Input connections
Unmarked terminal	Input, neutral (if connected to L4 the circuit is broken when the switch is in OFF position)
N	Input, neutral (if connected to N the circuit is not broken when the switch is in OFF position)
2/T1, 4/T2, 6/T3	Output connections
Unmarked terminal	Output, neutral (if connected to L4 the circuit is broken when the switch is in OFF position)
N	Output, neutral (if connected to N the circuit is not broken when the switch is in OFF position)
	Protective earth
13, 14	Normally open contacts
21, 22	Normally closed contacts

MOUNTING INSTRUCTIONS IN STEPS

Before you start mounting the EME5, read carefully **“Safety and Precautions”**. Then proceed with the following mounting steps:

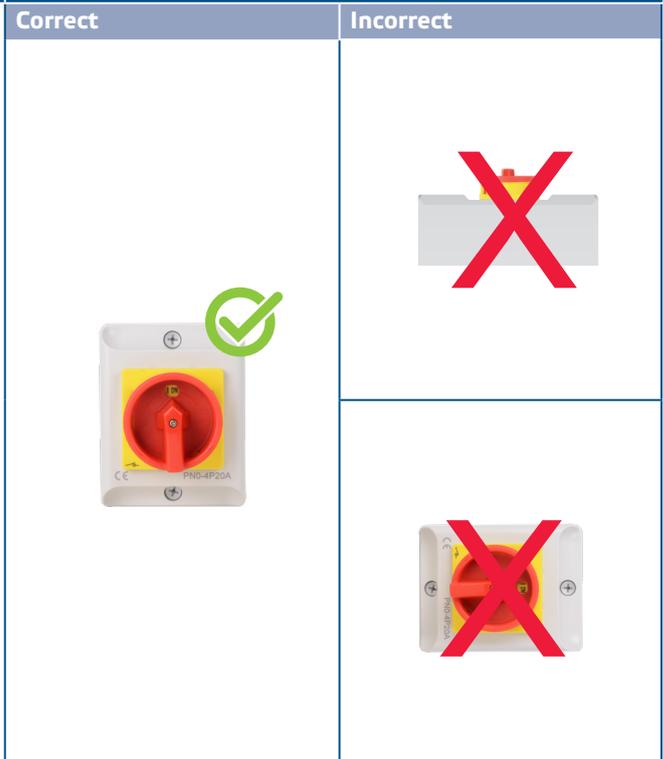
1. Remove and open the top of the enclosure.
2. Remove any of the pre-stamped cable entries (knockouts) to insert the wires.
3. Mount the unit onto the wall or panel using suitable fasteners. Mind the correct mounting position and unit mounting dimensions. (See **Fig. 1** and **Fig. 2**)

Fig. 1 Mounting dimensions



Article code	A [mm]	B [mm]	C [mm]
EME5-20-2100	100	125	120
EME5-20-4100	100	125	120
EME5-20-2111	100	125	120
EME5-20-4111	100	125	120
EME5-40-4111	114	175	135
EME5-63-4111	114	175	135

Fig. 2 Mounting position



NOTE

The enclosure can be opened only when the switch is in OFF position.

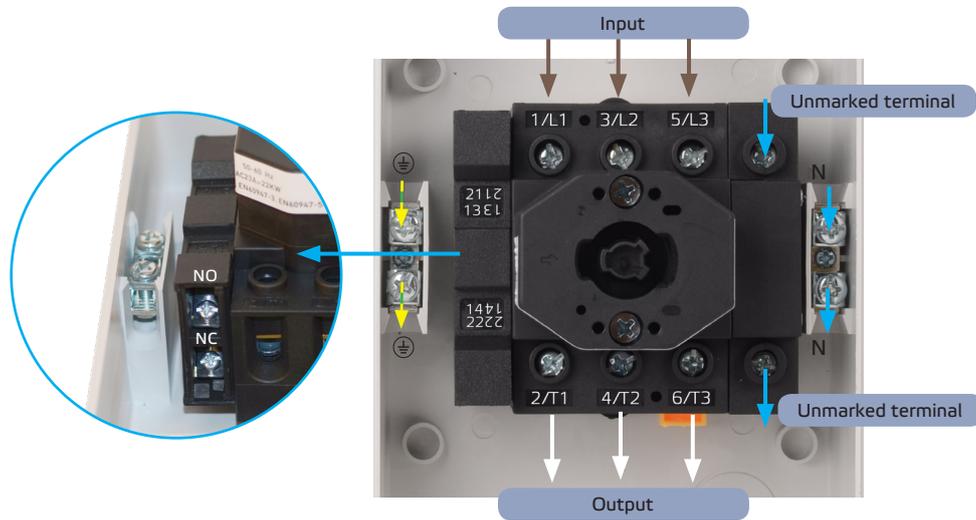
4. Do the wiring according to the wiring diagram (see **Fig. 3**) adhering to the information from section **“Wiring and connections”**. To facilitate the wiring, you can unmount the switch from the enclosure via the orange locking clip using a flat screwdriver and mount it back into the enclosure after completing the wiring.

Fig. 3 Wiring and connections

3a EME5-20-2100 and EME5-20-4100



3b EME5-20-2111, EME5-20-4111, EME5-40-4111 and EME5-63-4111



5. Mount back the cover and secure it with the screws.

6. Turn on the power supply.

NOTE

The switch is lockable only in OFF position. Locking it in ON position is forbidden.

NOTE

The position of the switch can be signalled to the control panel / room via the additional NO and NC contacts (if available).

OPERATING INSTRUCTIONS

In case of faulty operation

Please check if:

- the right voltage is applied;
- all connections are correct;
- the device is functioning.

TRANSPORT AND STORAGE

Avoid shocks and extreme conditions; stock in original packing.

WARRANTY AND RESTRICTIONS

Two years from the delivery date against defects in manufacturing. Any modifications or alterations to the product after the date of publication relieve the manufacturer of any responsibilities. The manufacturer bears no responsibility for any misprints or mistakes in this data.

MAINTENANCE

In normal conditions this product is maintenance-free. If soiled, clean with a dry or damp cloth. In case of heavy pollution, clean with a non-aggressive product. In these circumstances the unit should be disconnected from the supply. Pay attention that no fluids enter the unit. Only reconnect it to the supply when it is completely dry.