DR EMAX, NEW EMAX – EMAX 2

End of Life Instruction

Decommissioning instructions available to enable responsible recycling or disposal

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2024-11-22	Matteo Airoldi	EoL Instructions	Public		
OWNING ORGANIZATION		DOCUMENT ID.	REV.	LANG.	PAGE
ABB - ELSE		4TLB000580	A	en	1/6

Contents

1. Scope

This product family is in the scope of European Union directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The product family must be disposed according to the legislation of the country. This the end-of-life instructions is intended for use by customers and recycling companies which outline the responsible recycling or disposal method of the ABB product.

Document is focused on Direct Replacement New Emax E2- Emax E2.2 3p IEC version, anyway it allows to cover other versions of Direct Replacement Emax, New Emax – Emax 2 equipped with an electronic trip unit with just few slight differences to be considered.

2. Safety notes

Before proceeding with any disassembly operation, it’s mandatory to put the circuit breaker in open position and make sure that the springs of the operating mechanism are discharged.

For handling and lifting circuit breakers refer to section “Unpacking and handling” of Emax 2 “Installation, operation and maintenance instructions for the installer and the user” document. Improper lifting can result in death, serious injury to persons and damage to the equipment; never lift a circuit breaker above other people. The trained personnel in charge of handling and lifting must use appropriate safety equipment.

Disassembly operations of circuit breakers must be performed by qualified and skilled personnel in the electrical field (IEV 195-04-01: person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which electricity can create) and having a detailed knowledge of circuit breakers.

Disassembly activities must be performed in an ergonomic workspace able to ensure protection of persons demanded to perform disassembly activities.

Applicable national legislation and international standards in force at the time of disassembly of circuit breakers must be taken into account in addition to prescriptions illustrated in this document.

ABB declines any responsibility for injury to people or damage to property resulting from a failure to comply with the instructions set out in this document and with any applicable safety standard.

3. Personal protective equipment (PPE)

When performing disassembly, following safety Personal Protective Equipment (PPE) must be worn:

4. Dismantling instructions

4.1. Tools

The following tools are needed to perform disassembly activities:

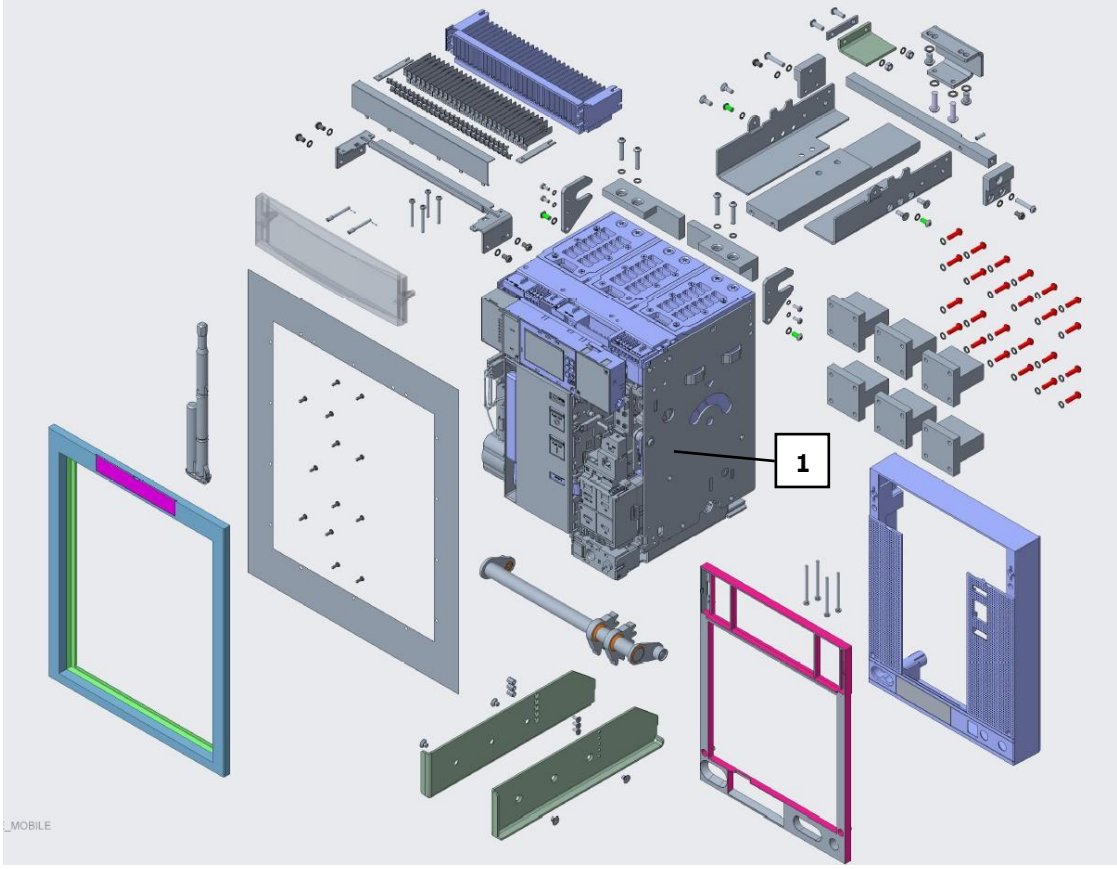
- Flat screwdriver
- Cross screwdriver
- Torx key (no. 8/30/40)
- Allen key (2,5/4 mm)
- Spanner (10-11 mm)
- Hammer

4.2. Direct Replacement retrofit kit

Remove all the screws that are fixing the components highlighted in the exploded view below.

For dismantling instructions of item n°1, please refer to the following documents:

- E2.2: 1SDH002304A1001
- E4.2: 1SDH002305A1001
- E6.2: 1SDH002306A1001



5. Constituent materials

The representative product is DR E2.2 - E2 3p New IEC Air Circuit Breaker which weighs 64.40 kg including its installed accessories, paper documentation and packaging.

DR E2.2 - E2 3p New IEC				
Materials	**Name**	**IEC 62474 MC**	**[g]**	**%**
Metals	Steel	M-119	26467.2	41.1%
	Cu and Cu Alloys	M-121	14346.1	22.3%
	Stainless Steel	M-100	1264.7	2.0%
	Aluminum	M-120	215.4	0.3%
	Precious Metals	M-159	46.2	<0.1%
Plastics	Unsaturated Polyester	M-301	7522.2	11.7%
	Polyamide	M-258	974.0	1.4%
	Polycarbonate	M-254	825.9	1.3%
	Other Polymers	NA	621.3	1.0%
Other	Wood	M-340	12000.0	18.6%
	Paper/Cardboard	M-341	117.3	0.2%
Total			64400.3	100.0%

Table 3: Weight of materials DR E2.2 - E2 3P NEW IEC

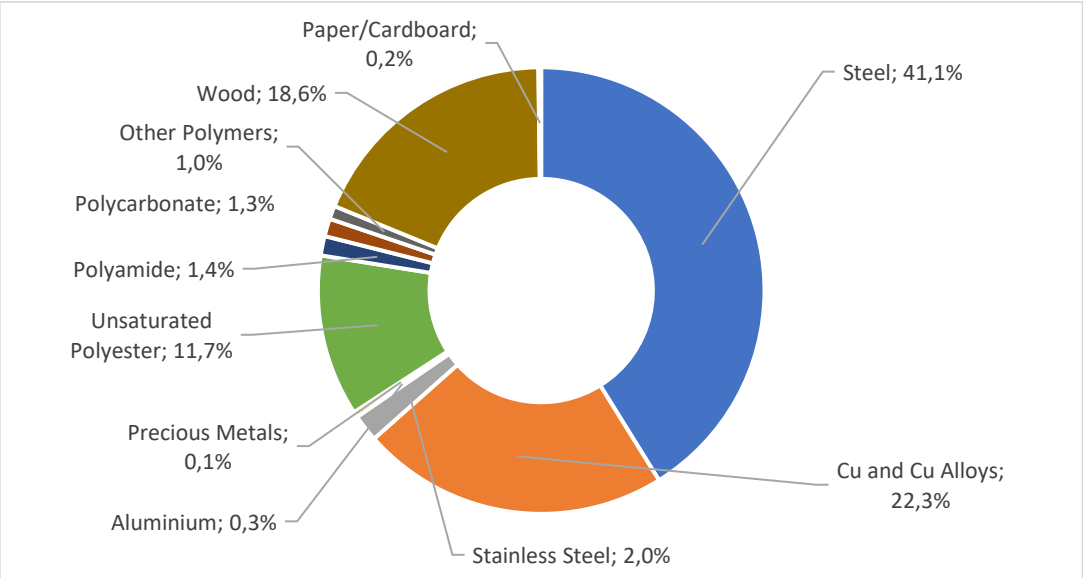


Figure 1: Composition of DR E2.2 - E2 3p New IEC

6. Additional Information

Weight per Pole	64,40 kg
Overall dimensions (H x D x W)	309 x 418 x 393 mm
Recyclability rate	80,83%