

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50449327

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
Q.J.B.

Unser Zeichen *Our Reference*
01-DY-50302884 001

Ausstellungsdatum *Date of Issue*
08.11.2019 (day/mo/yr)

Genehmigungsinhaber *License Holder*

Zhejiang ETEK Electrical Technology Co., Ltd.
NO.288 Wei 17th Road,
Yueqing Economic Development Zone,
Yueqing, Wenzhou, Zhejiang Province
P. R. China

Fertigungsstätte *Manufacturing Plant*

Zhejiang ETEK Electrical Technology Co., Ltd.
NO.288 Wei 17th Road,
Yueqing Economic Development Zone,
Yueqing, Wenzhou, Zhejiang Province
P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60898-1:2003+A1+A11+A12+A13

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Circuit Breaker (Miniature Circuit-breaker)

Type Designation	: 1) EKM1-63 ; 2) EKM1-63H	8
Number of Poles	: 1/2/3/4P	
Rated Operation Voltage	: 230/400V(1P) ; 400V(2/3/4P)	
Nature of Supply	: AC 50/60Hz	
Instantaneous Tripping Current	: B/C/D-Type	
Rated Current	: 1/2/4/6/10/16/20/25/32 40/50/63A for B/C type 6/10/16/20/25/32 40/50/63A for D type	
Service Short-circuit Capacity	: 1) 6,0kA; 2) 10,0kA	
Rated Short-circuit Capacity	: 1) 6,0kA; 2) 7,5kA	
Rated Insulation Voltage	: 500V	
Rated Impulse Withstand Voltage	: 6,0kV	
Pollution Degree	: 2	
Suitability for Isolation	: Yes	
Energy Limit Class	: Class 3	
Remark:	This license takes place of license R 50301500.	

8

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Hao Zheng

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50449329 0001

Report No.: 50302884 001

Holder: Zhejiang ETEK Electrical Technology
Co.,Ltd.
NO.288 Wei 17th Road,
Yueqing Economic Development Zone,
Yueqing, Wenzhou, Zhejiang Province
P. R. China

Product: Circuit Breaker
(Miniature Circuit-breaker)

Identification: Type Designation: EKM1-63 ; EKM1-63H

Serial No. : Engineering sample

Remark: Issued in conjunction with TÜV Rheinland license
R 50449327 0001.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date 08.11.2019



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Zhejiang ETEK Electrical Technology
Co., Ltd.
Qi Jibin

Date : 08.11.2019
Our ref. : DY 01
Your ref.: Q.J.B.

-
NO.288 Wei 17th Road,
Yueqing Economic Development Zone,
Yueqing, Wenzhou, Zhejiang Province
P. R. China

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : Miniature Circuit-breaker
Model Designation : See Certificate
Certificate No. : AN 50449329 0001
Report No. : 50302884 001

Dear Qi Jibin,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body



Hao Zheng

CC: Zhejiang ETEK Electrical Technology

Enclosure

证书的详细信息请登陆www.tuvdotcom.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zhejiang ETEK Electrical Technology
Co., Ltd.
Qi Jibin

Date : 08.11.2019
Our ref. : DY 01
Your ref.: Q.J.B.

NO.288 Wei 17th Road,
Yueqing Economic Development Zone,
Yueqing, Wenzhou, Zhejiang Province
P. R. China

Ref : R TÜV-Mark Approval

Type of Equipment : Miniature Circuit-breaker
Model Designation : See Certificate
Certificate No. : R 50449327 0001
Report No. : 50302884 001

Dear Qi Jibin,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body



Hao Zheng

cc: Zhejiang ETEK Electrical Technology

Enclosure

证书的详细资料请登陆www.tuvdotcom.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询



PHOTO DOCUMENTATION

50302884 001

for

Miniature Circuit Breaker

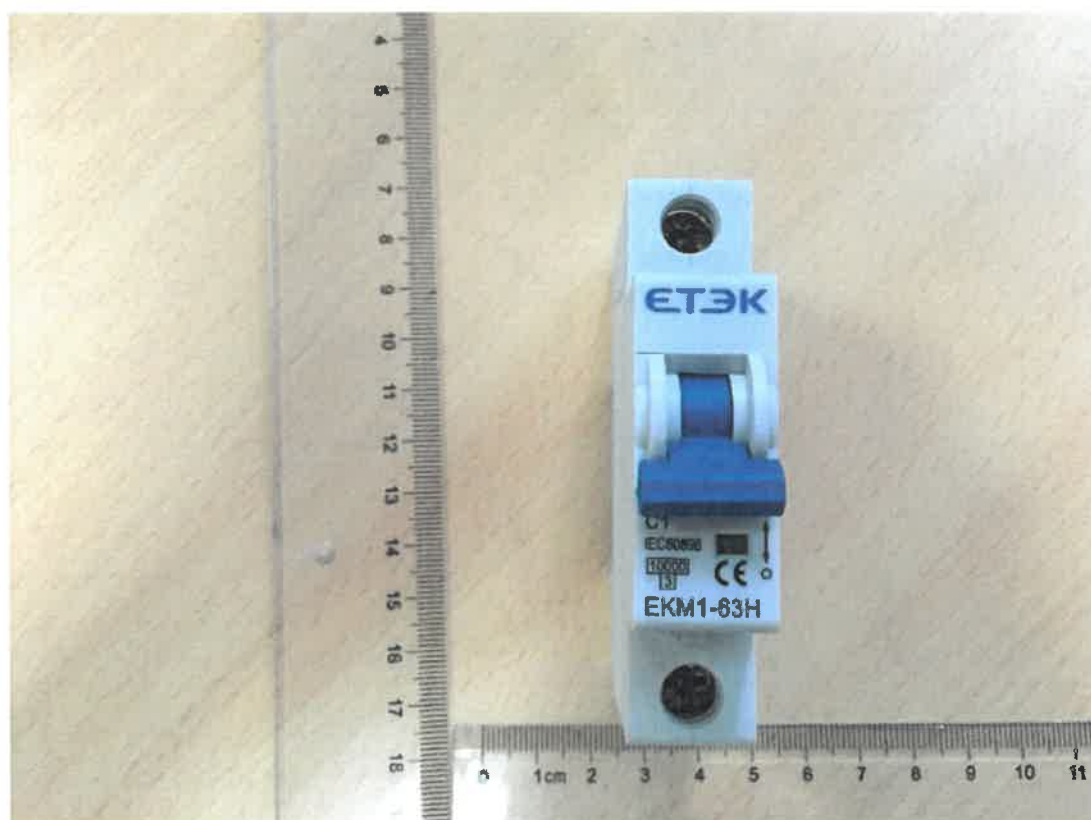
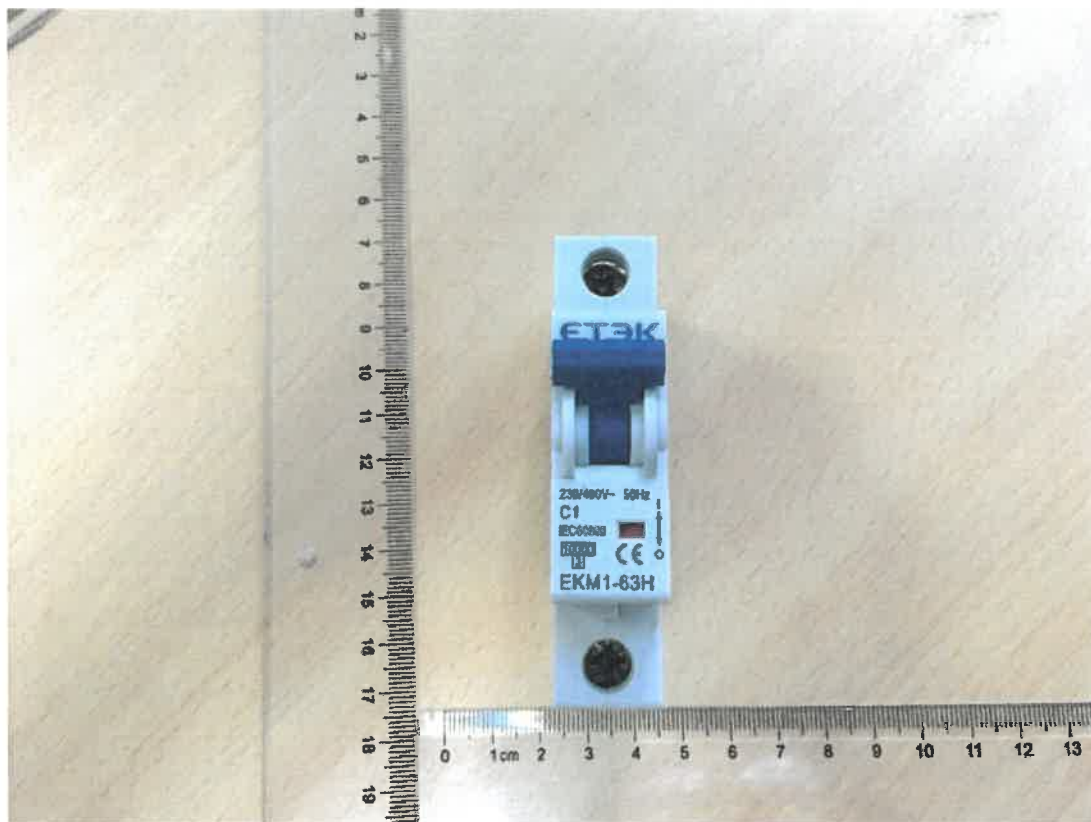
EKM1-63H

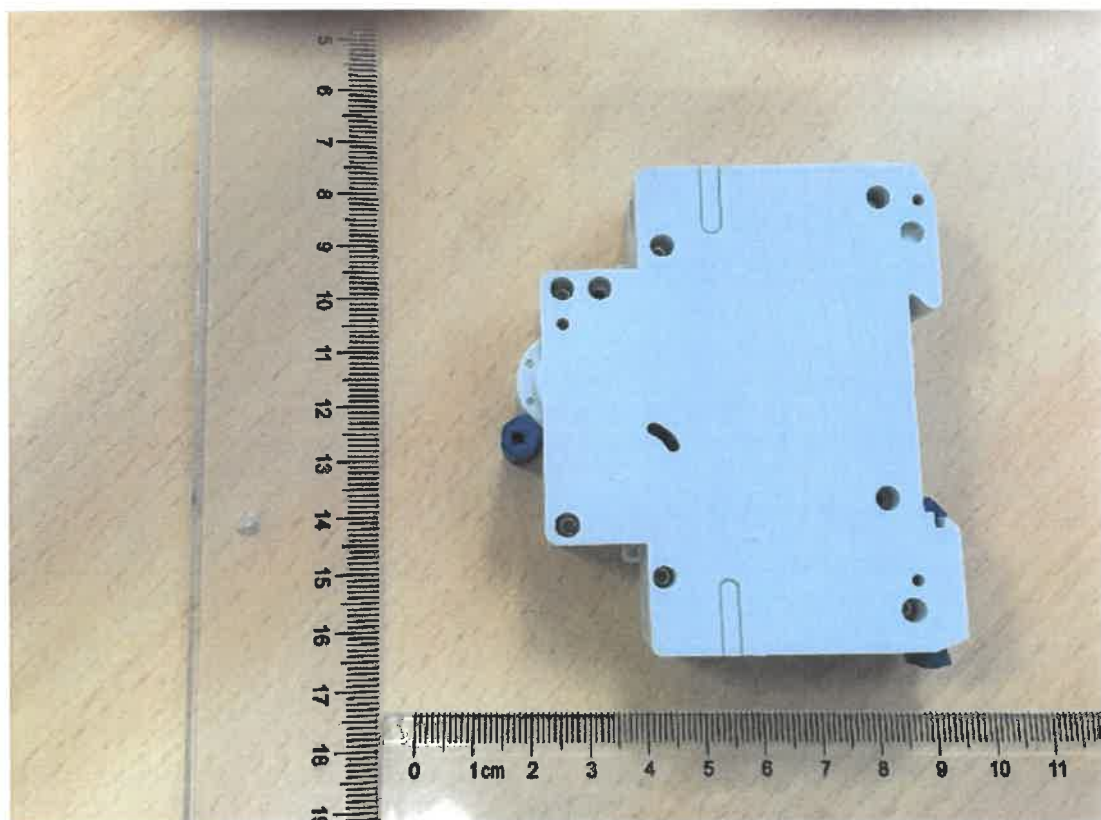
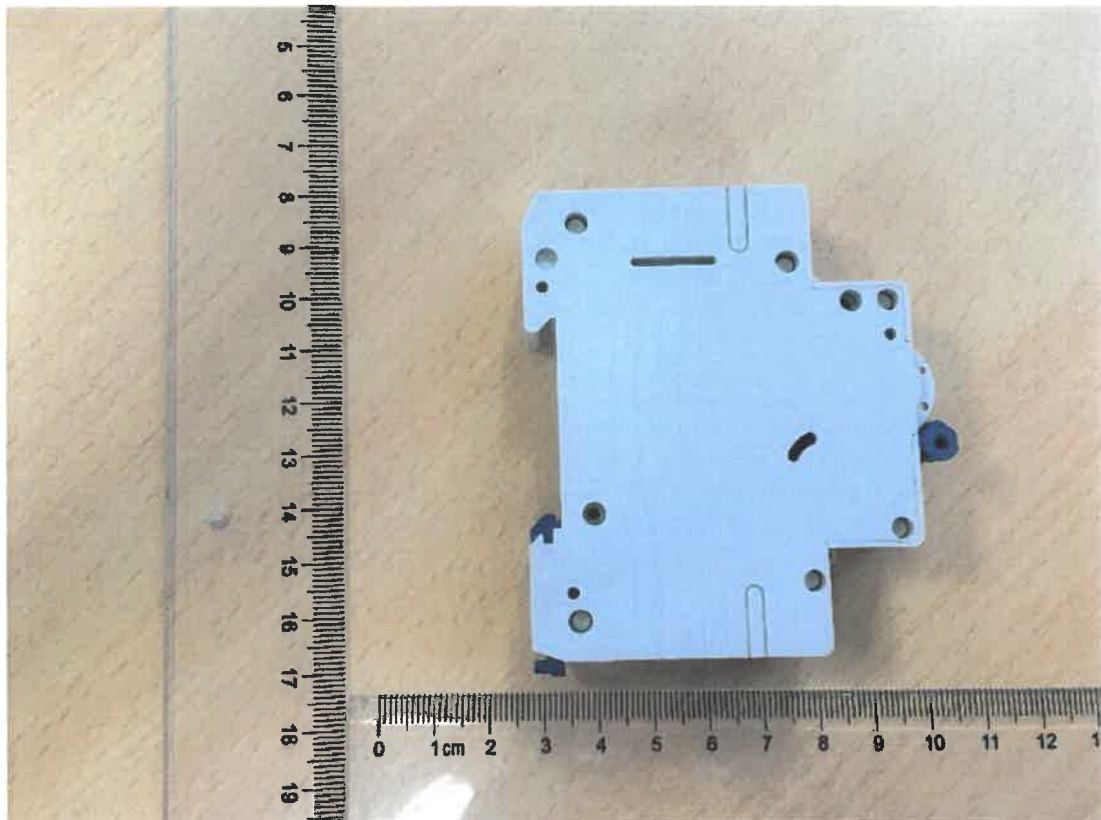
Zhejiang ETEK Electrical technology CO.,Ltd.

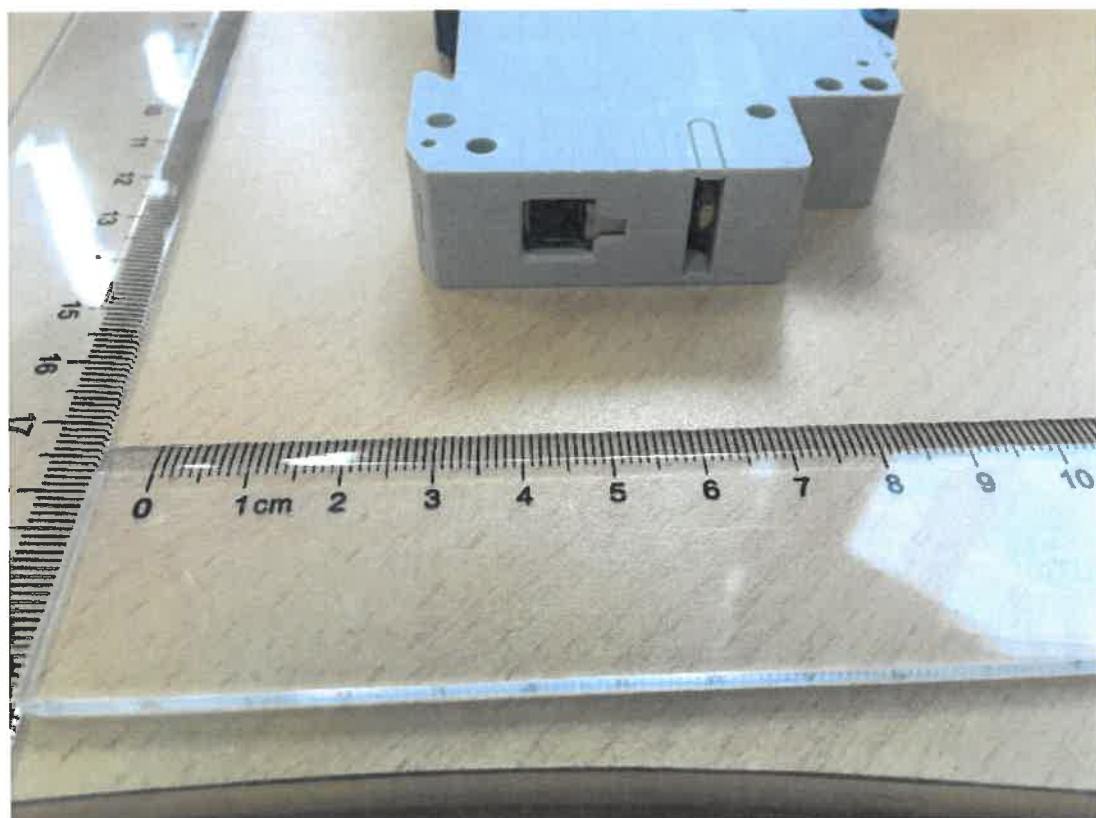
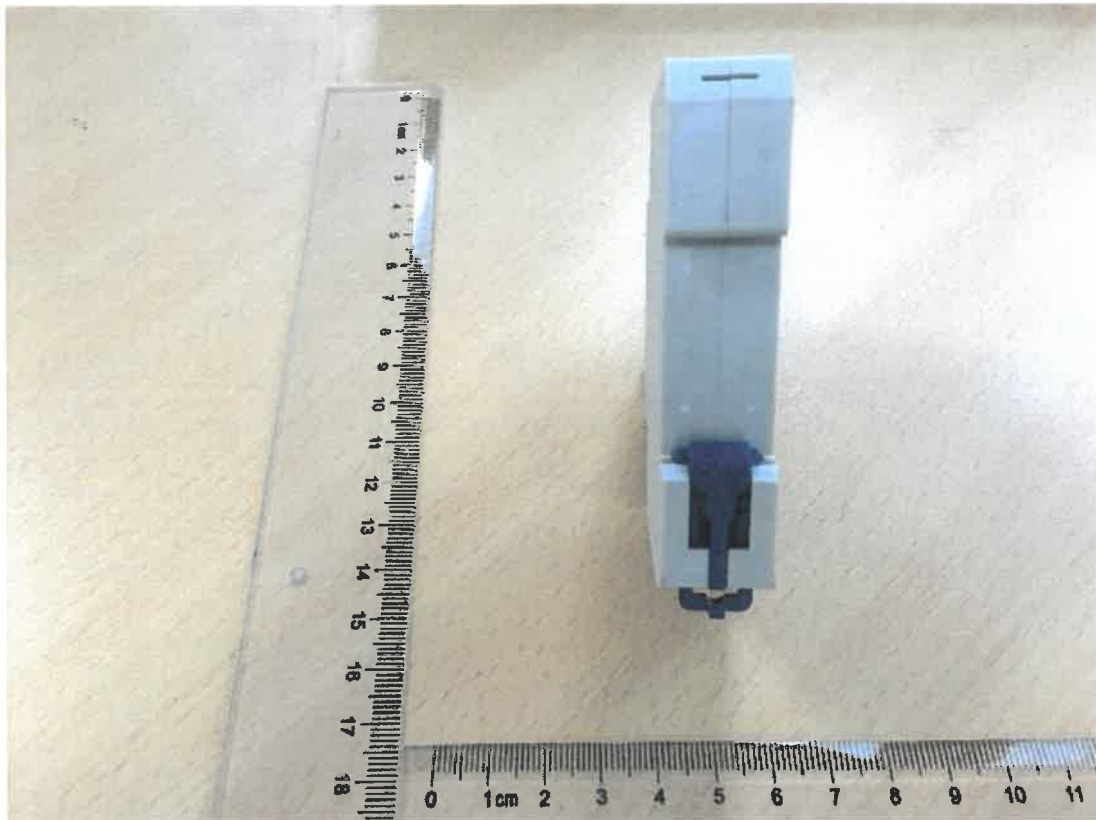


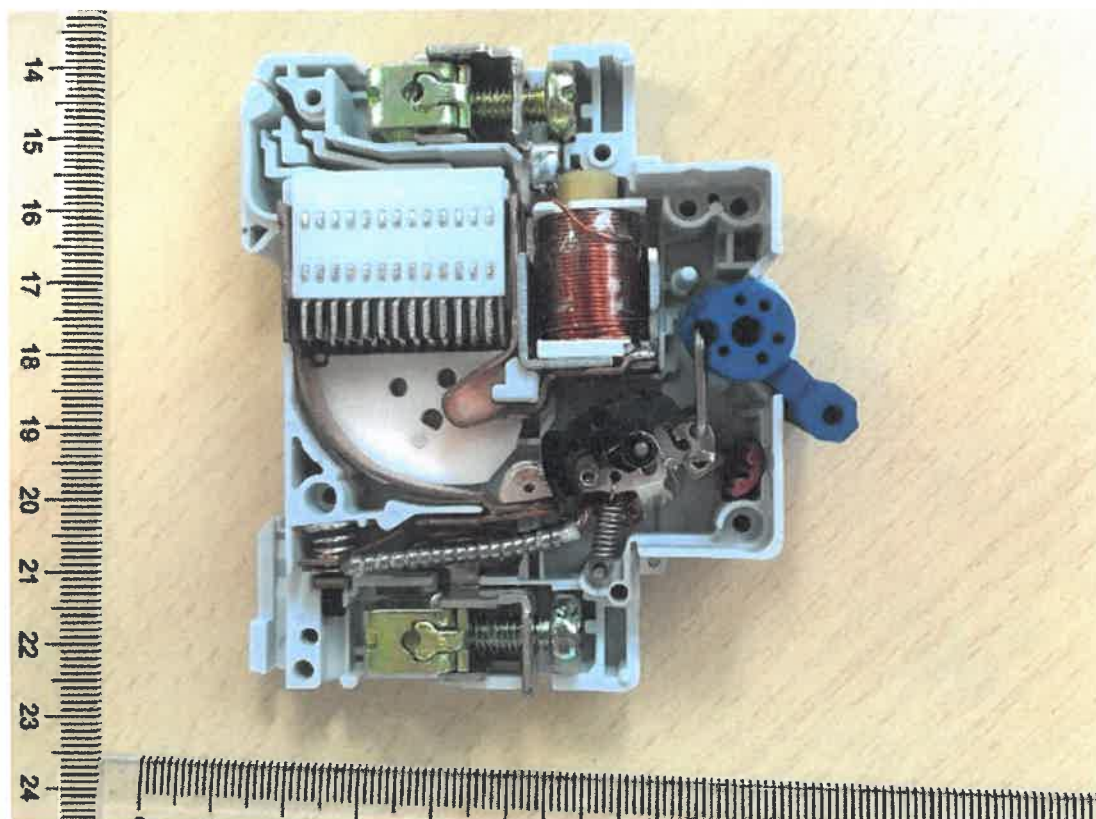
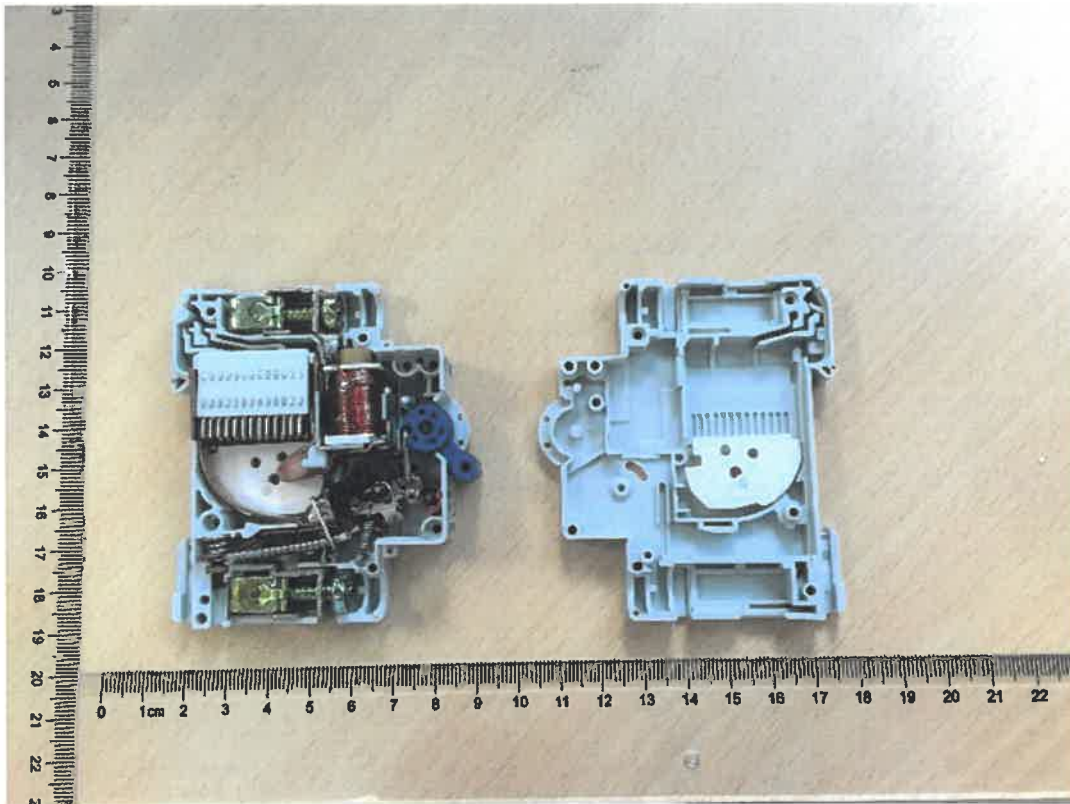
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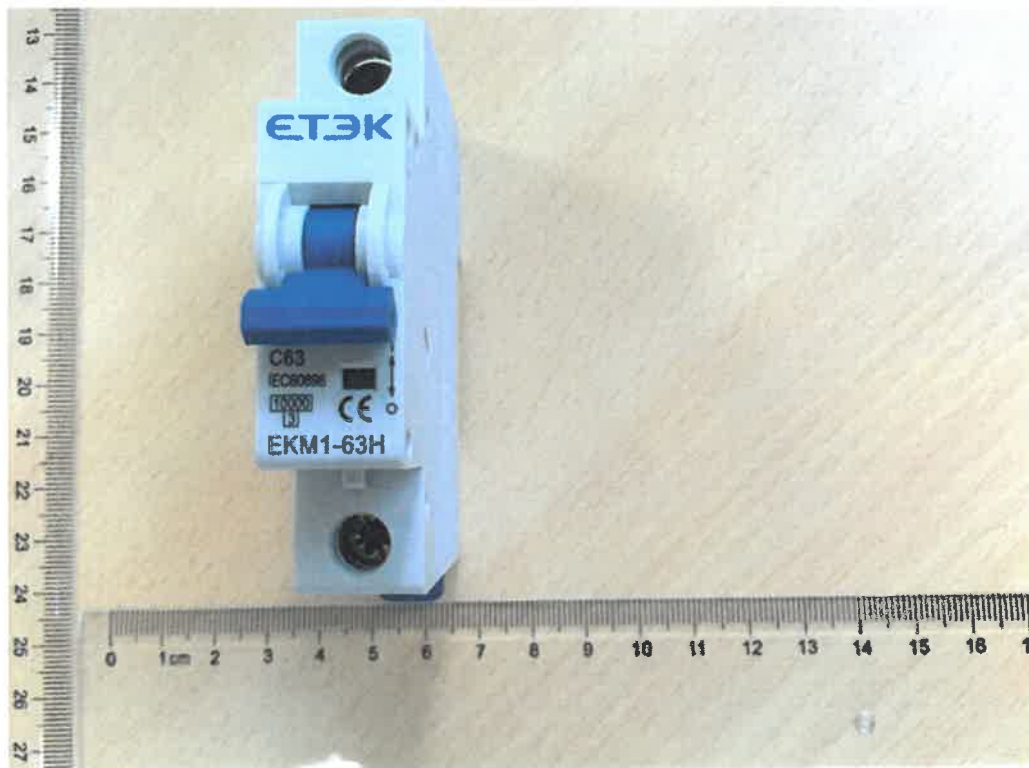
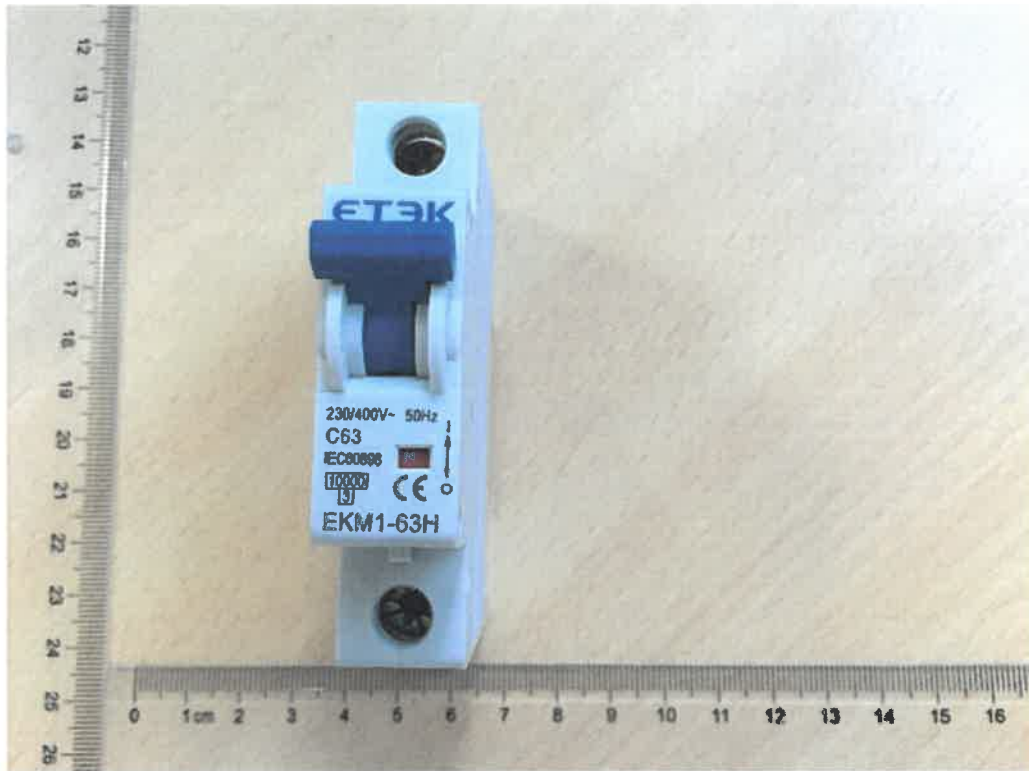


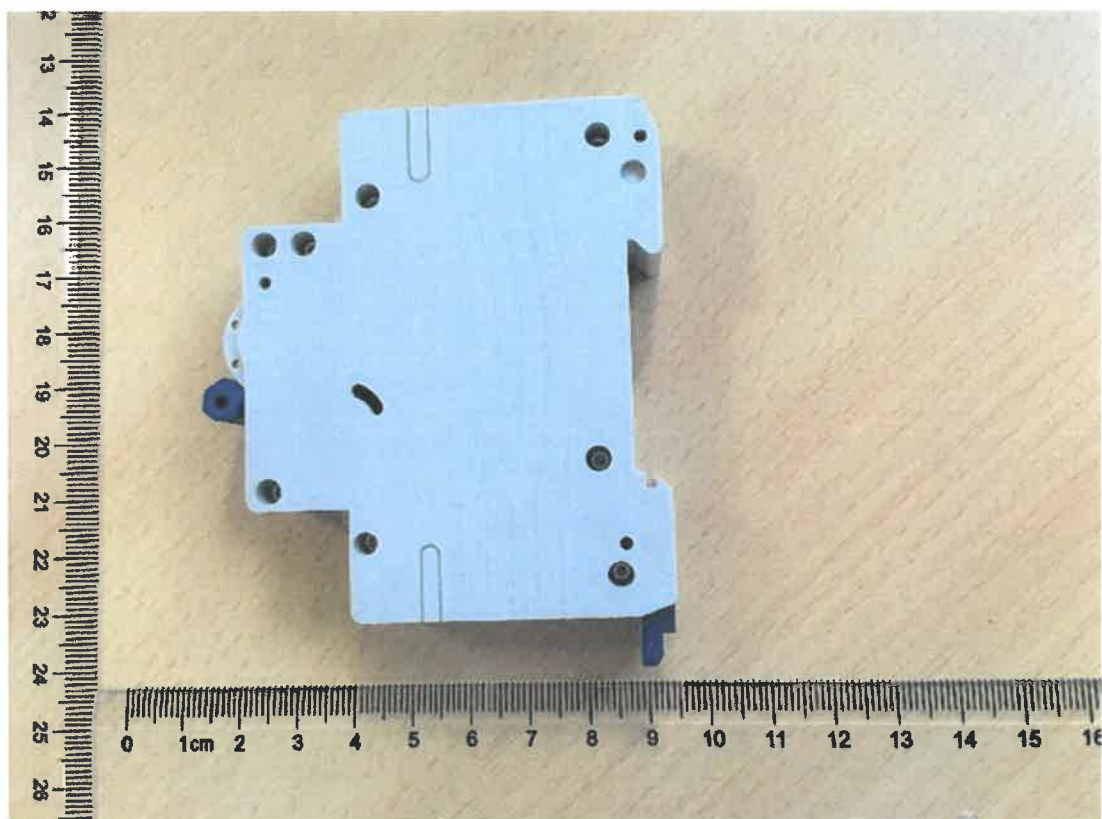
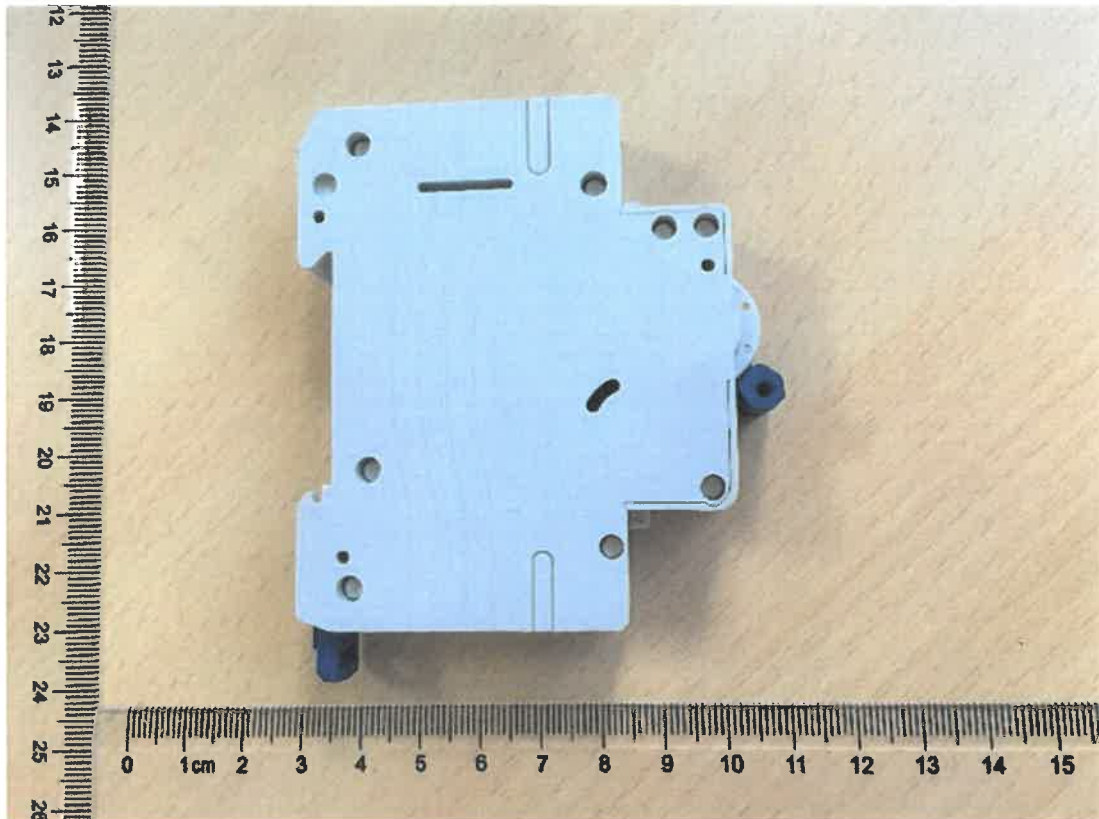


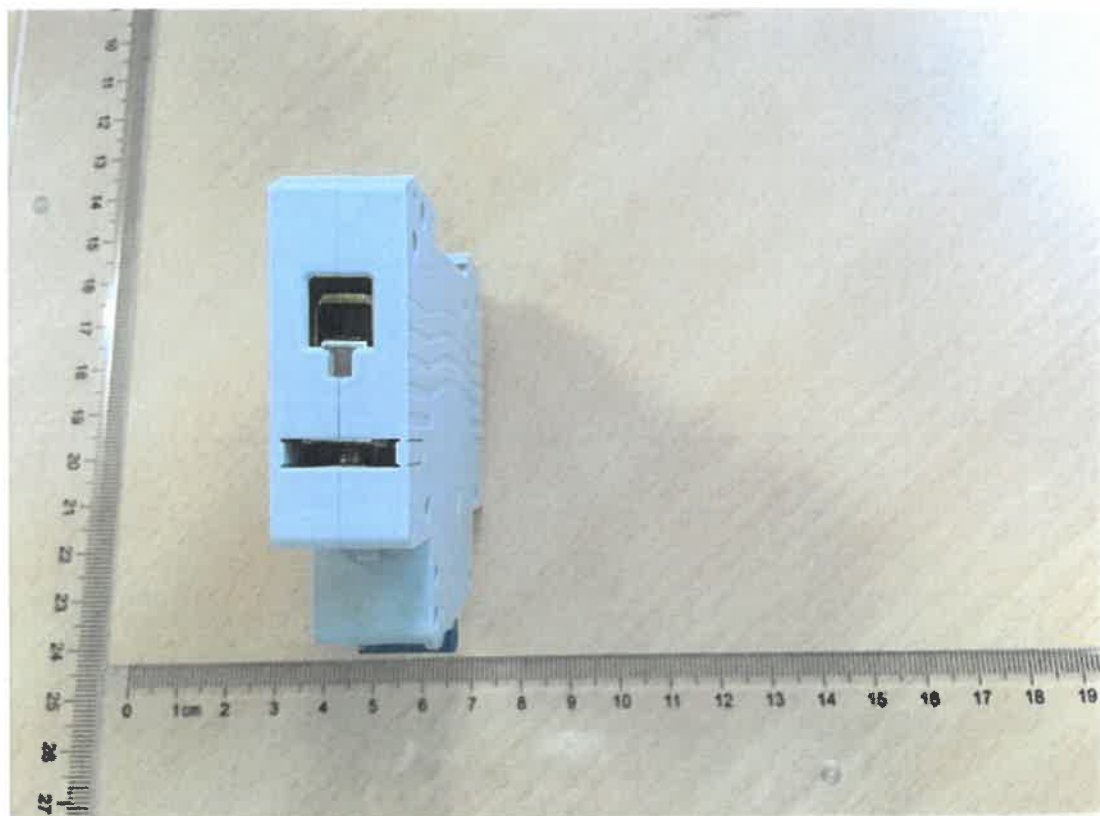
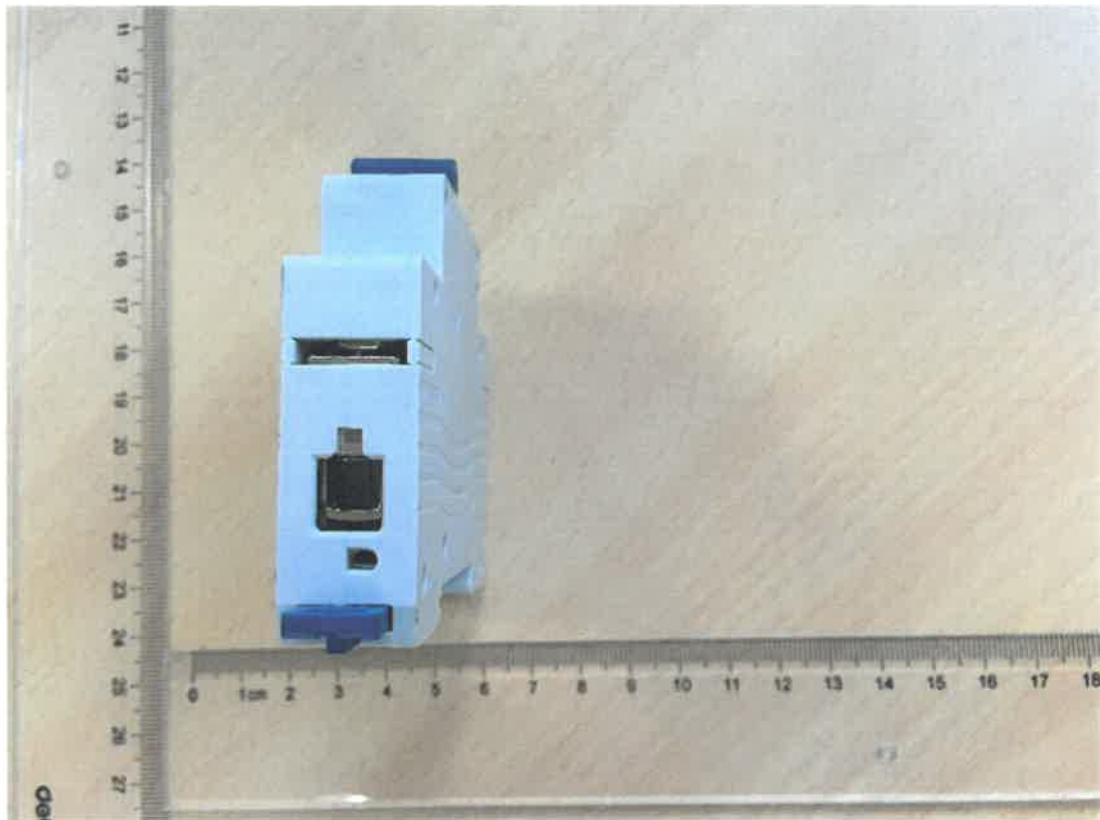


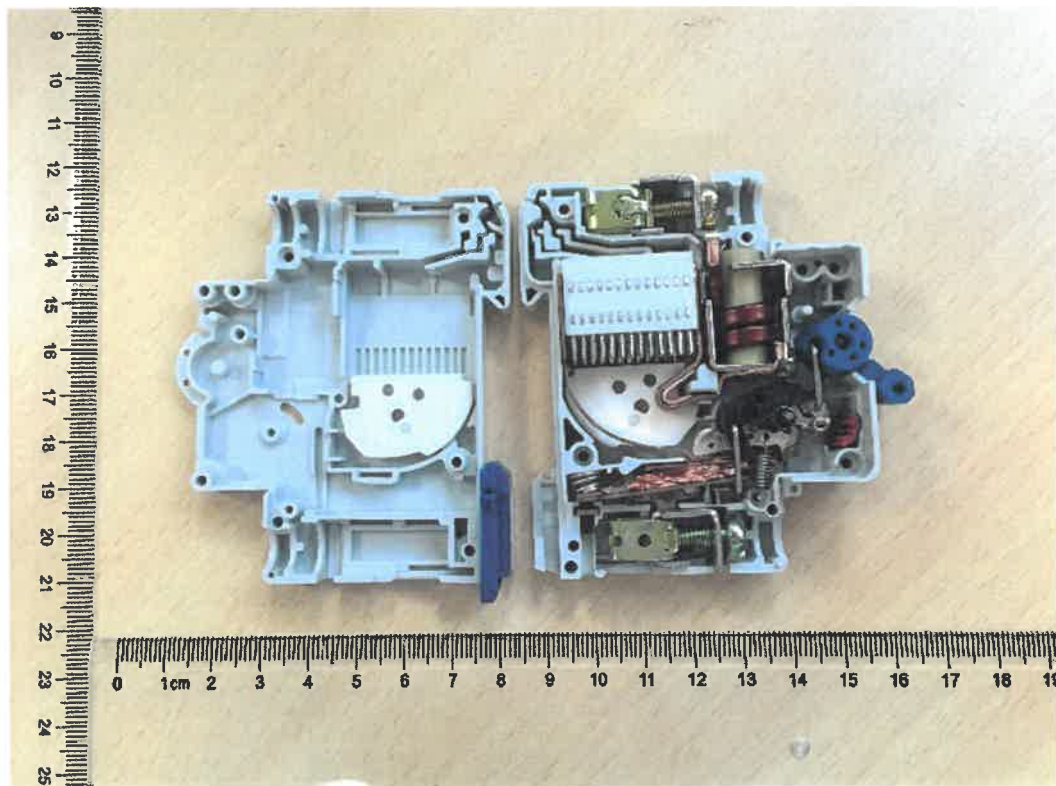
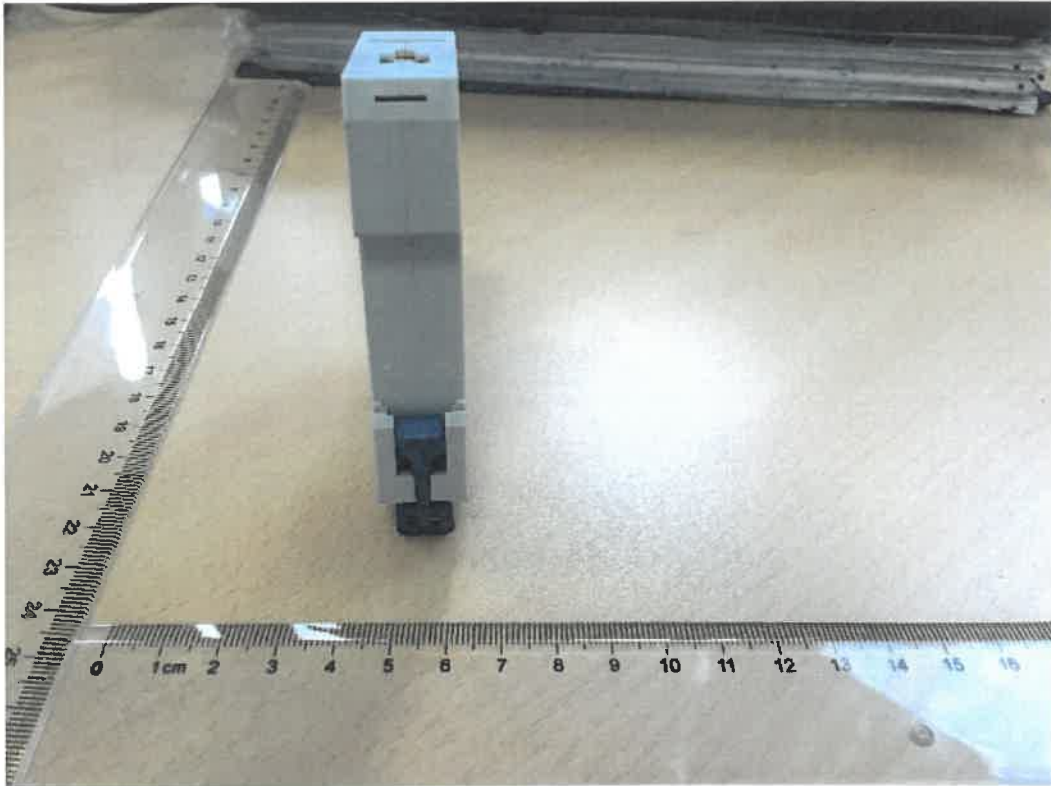


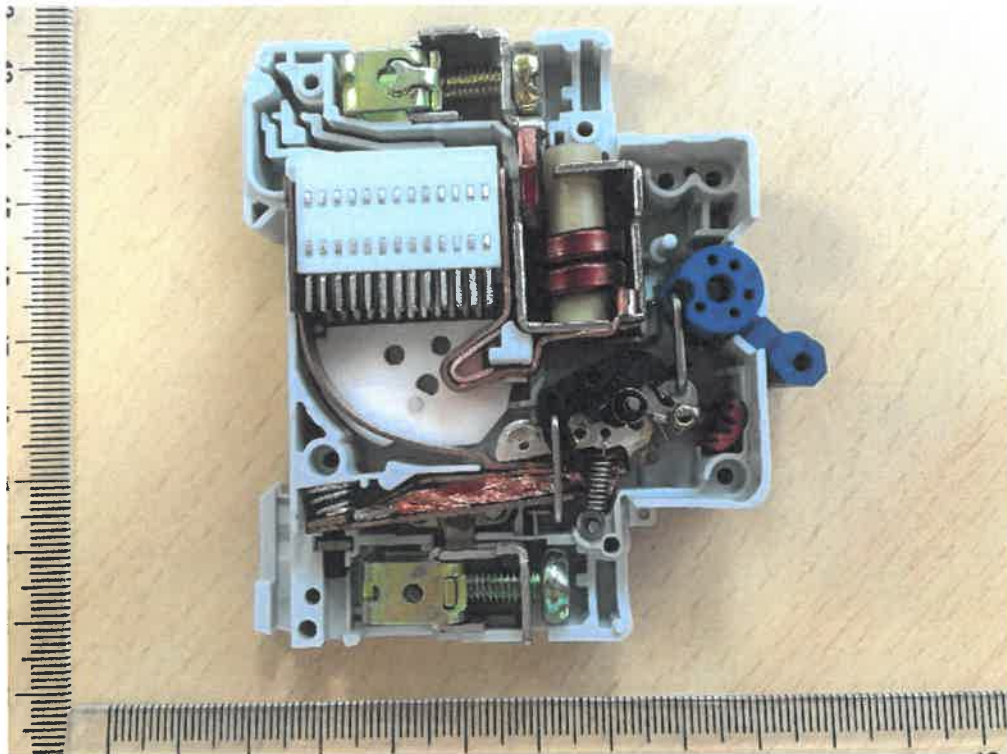
Those pictures are about EKM1-63H (1P,C1)



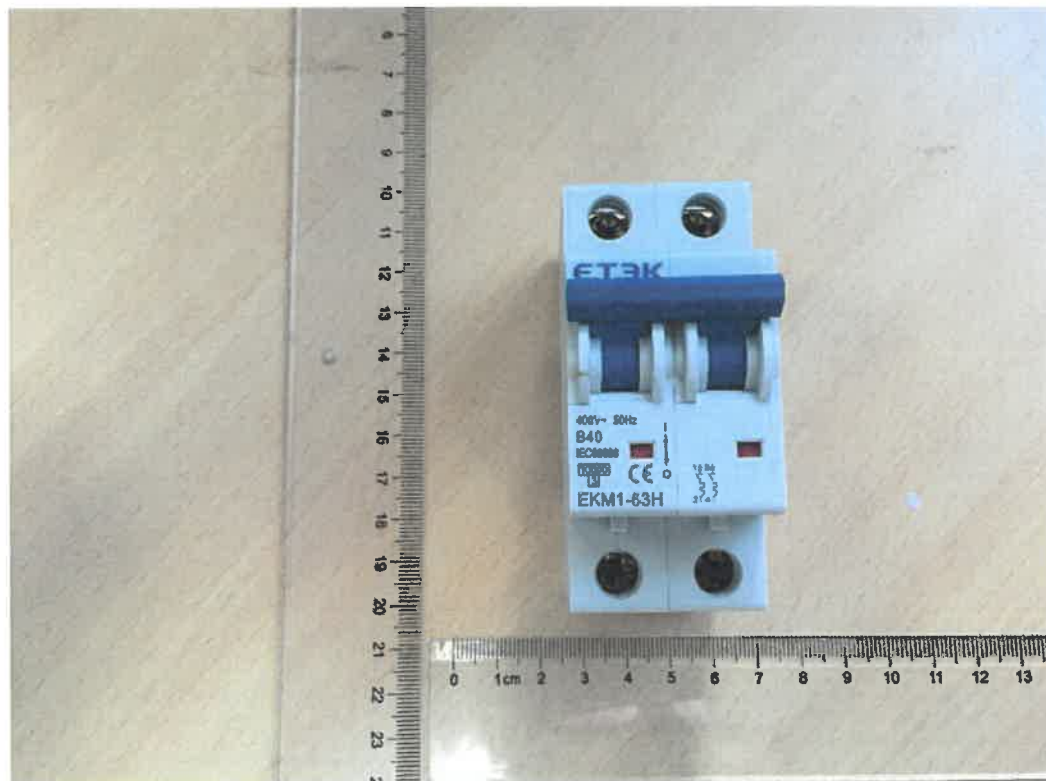
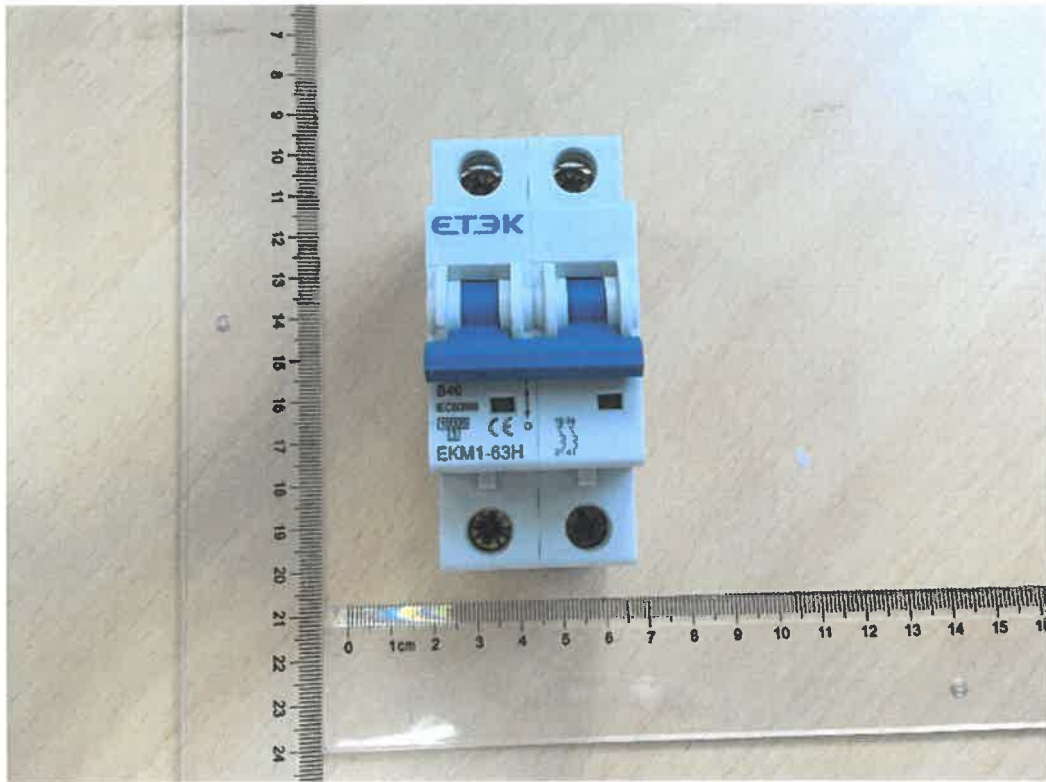


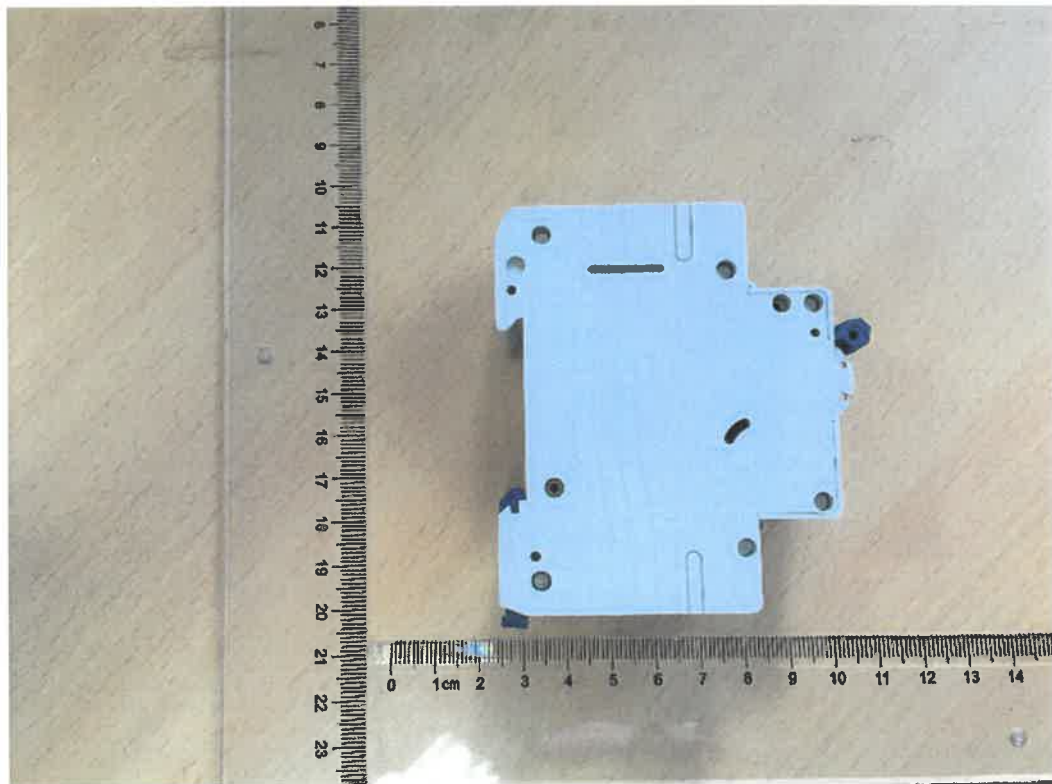
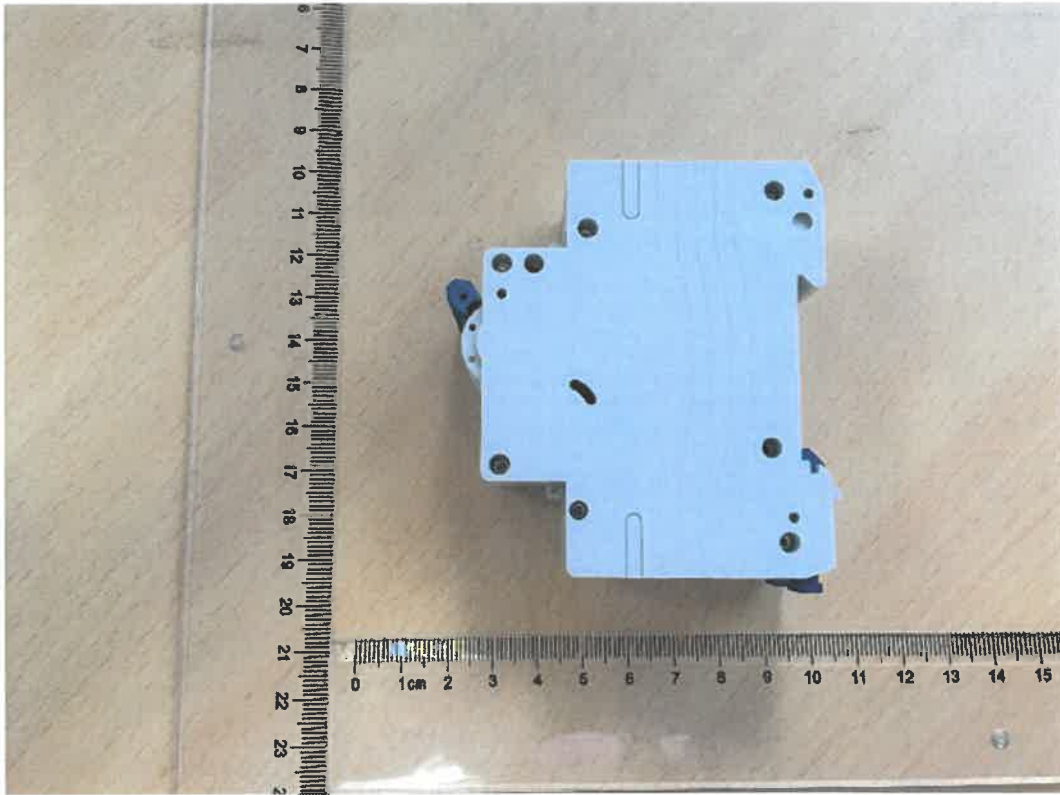


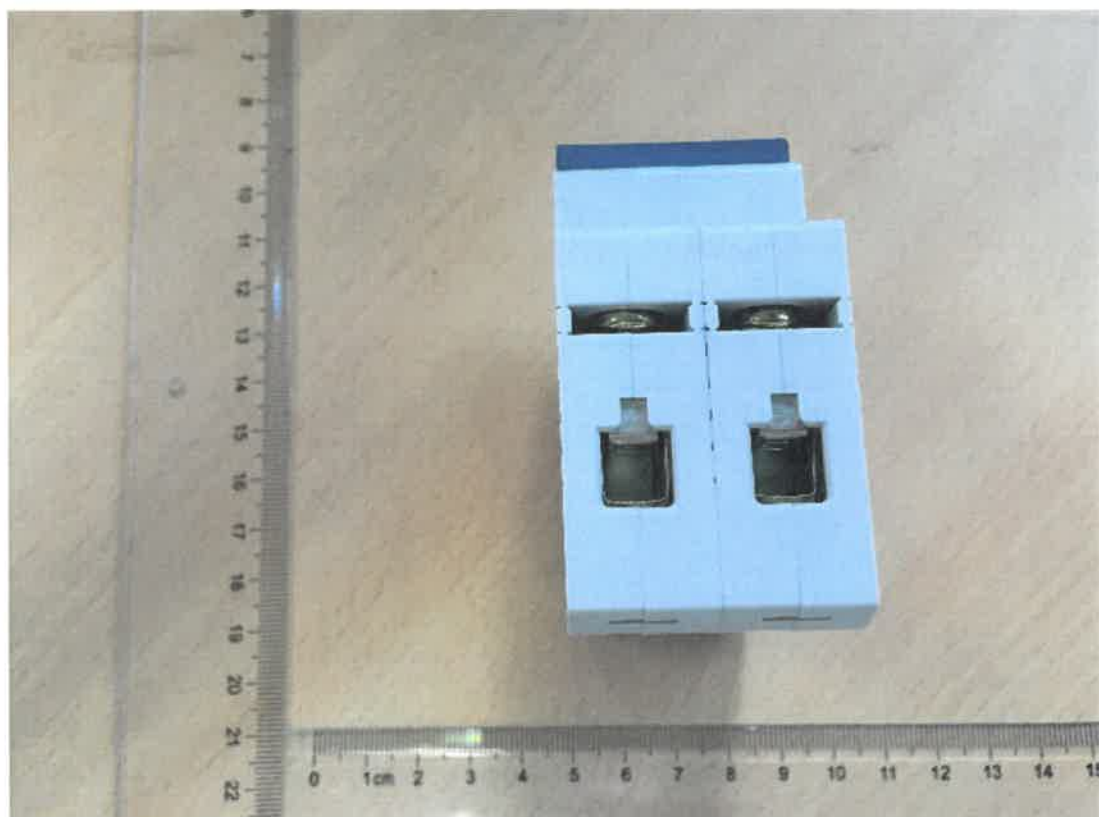
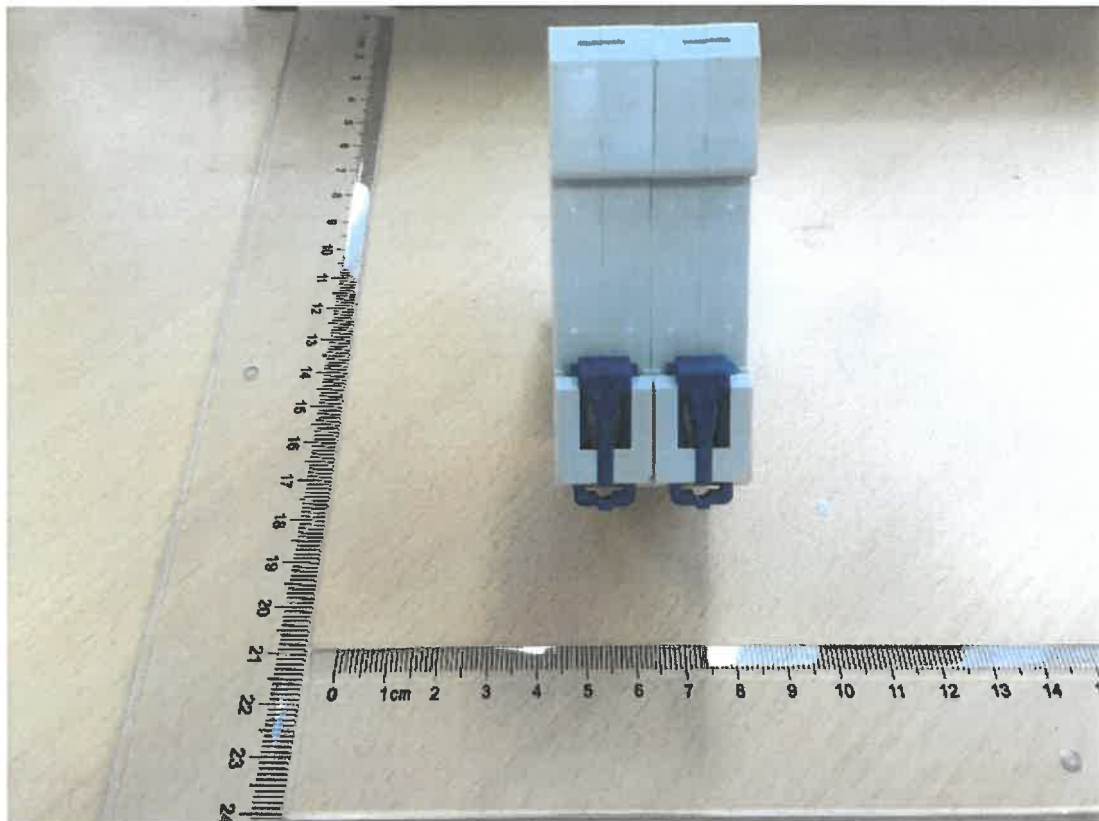


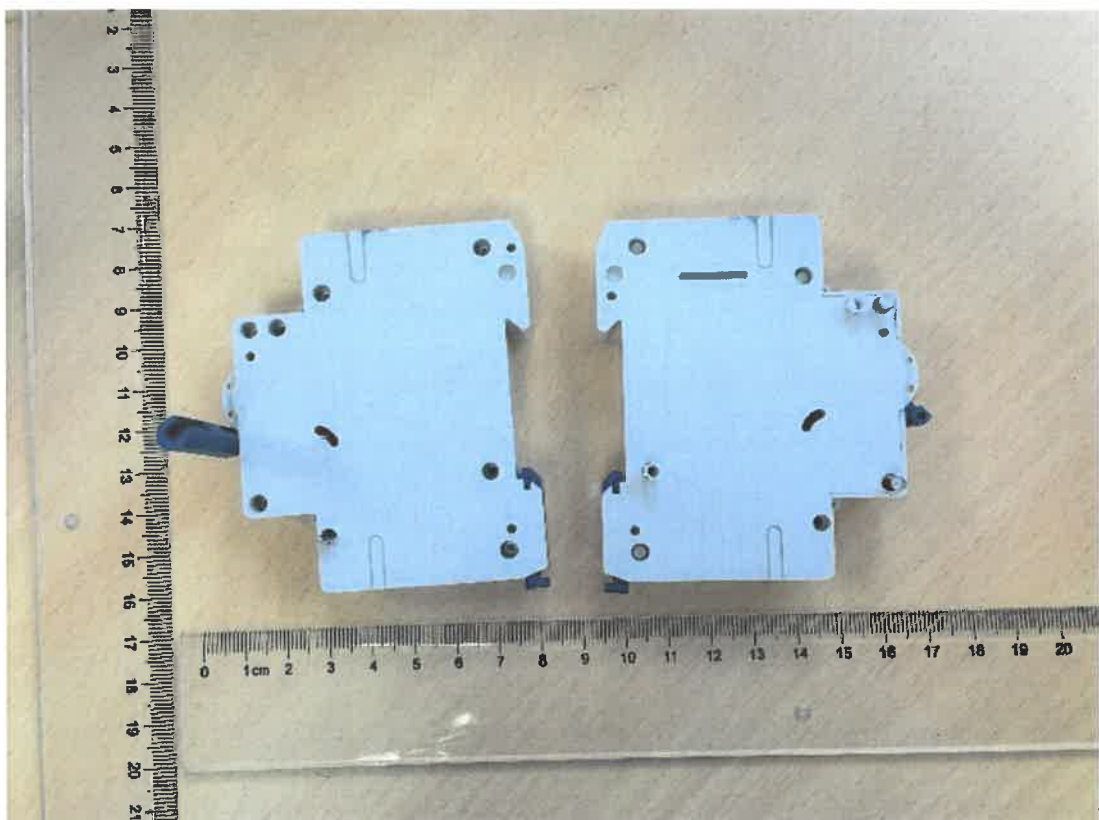
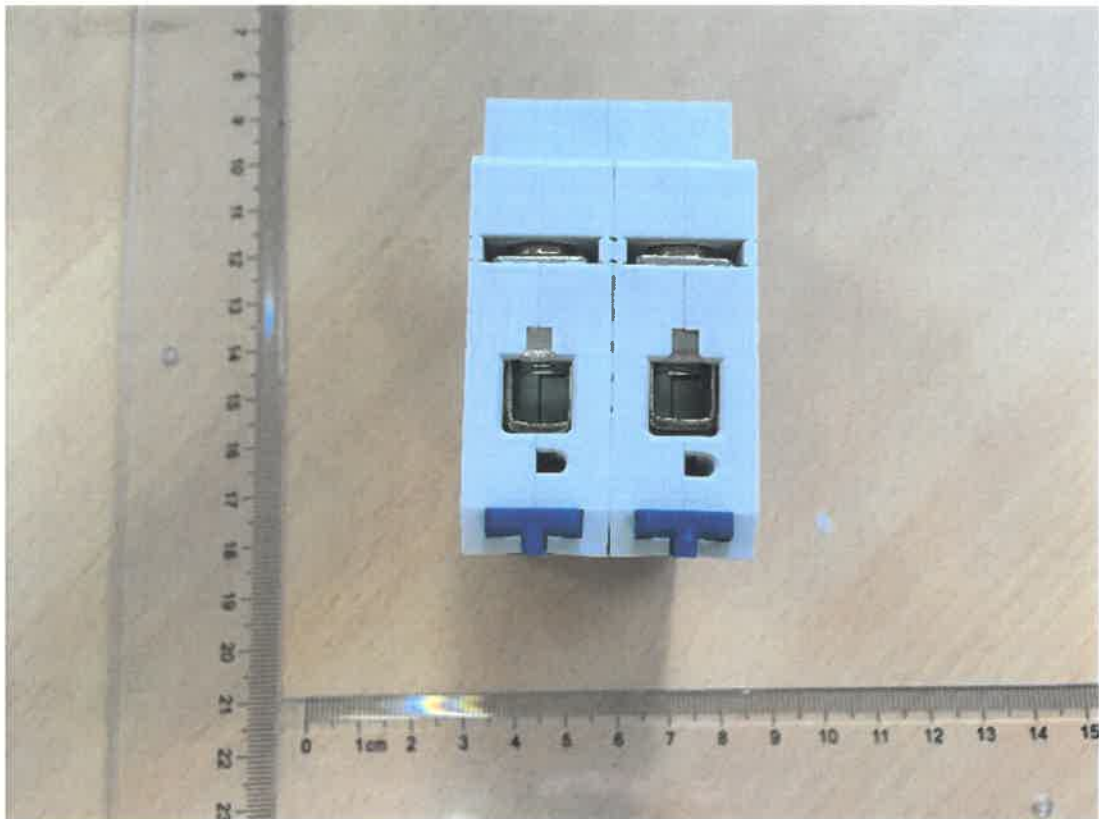


Those pictures are about EKM1-63H (1P, C63)

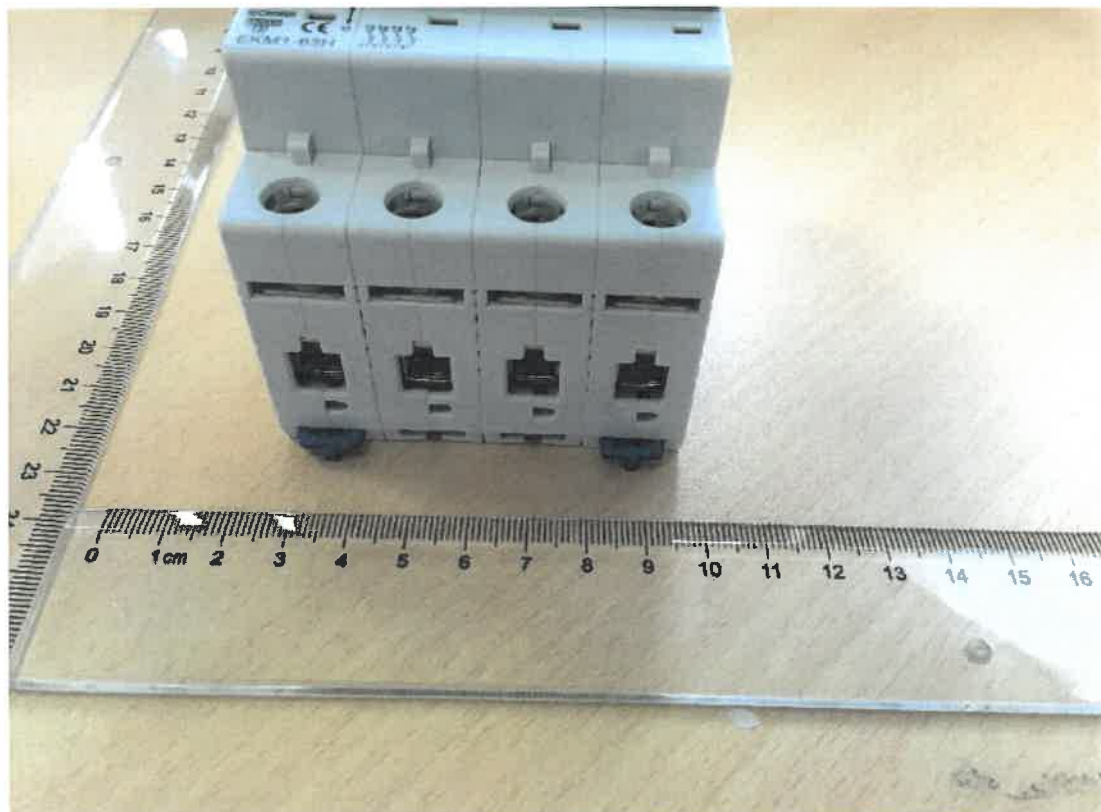


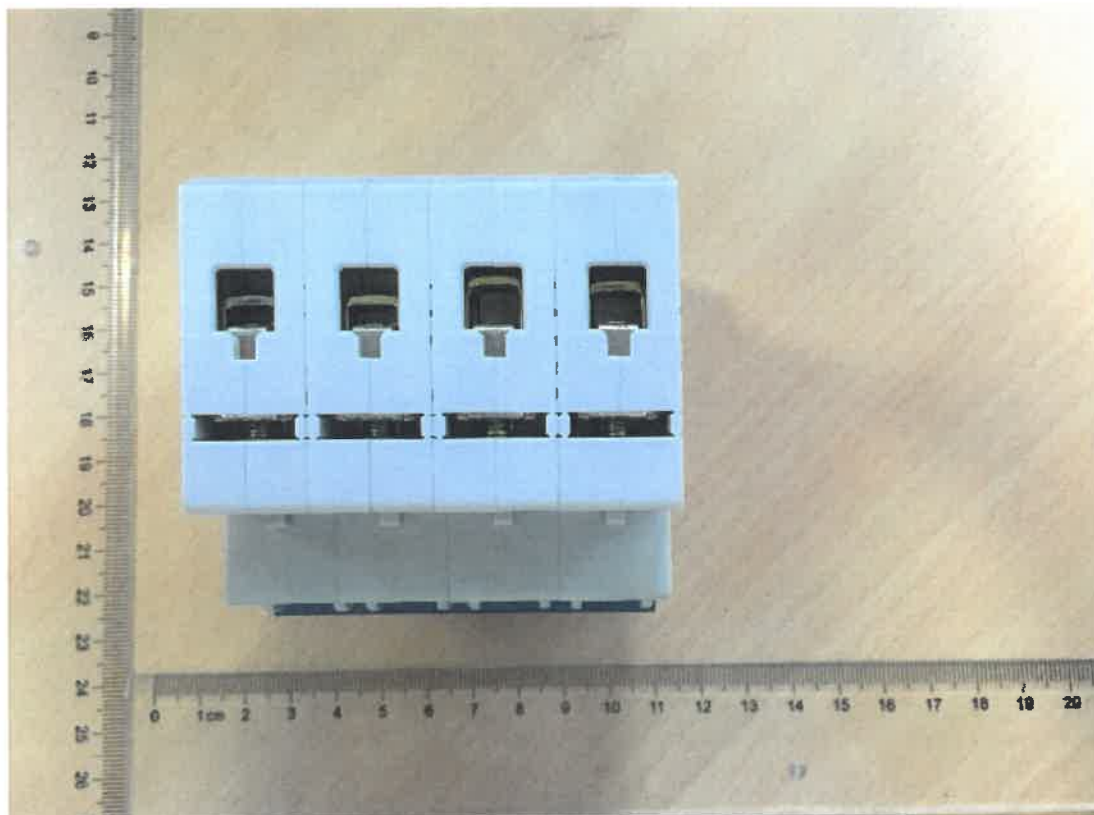
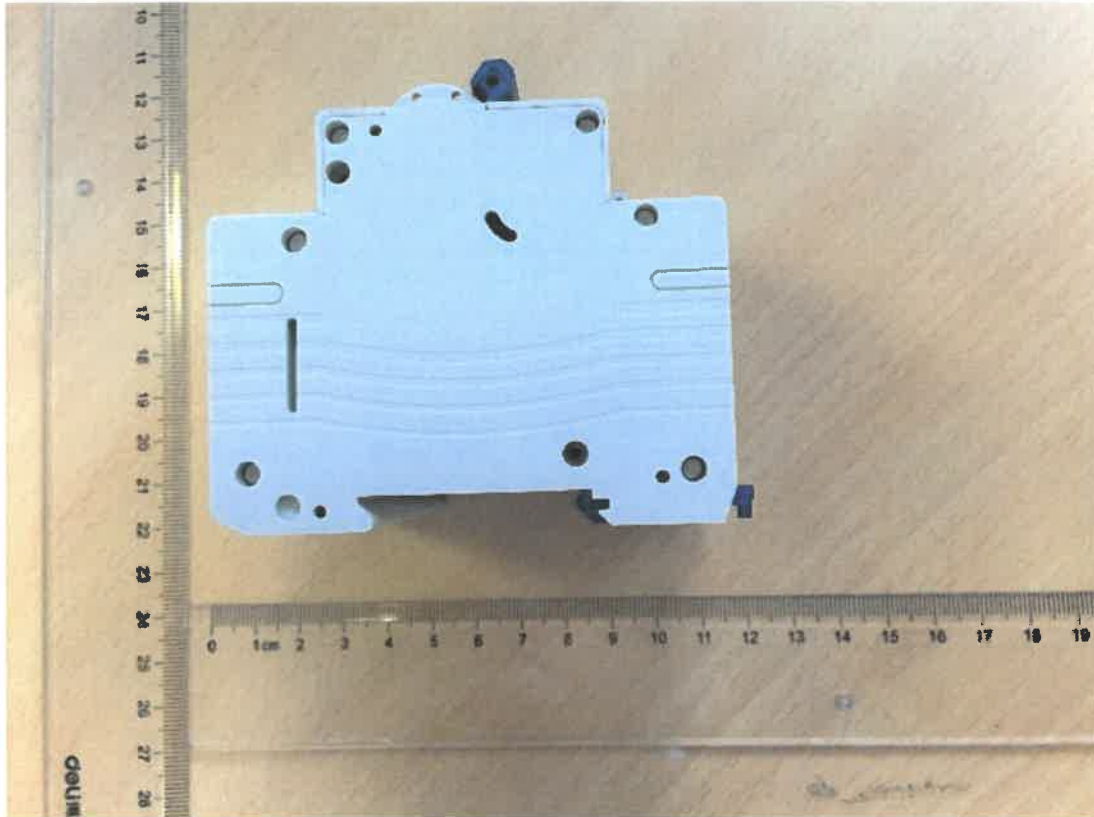


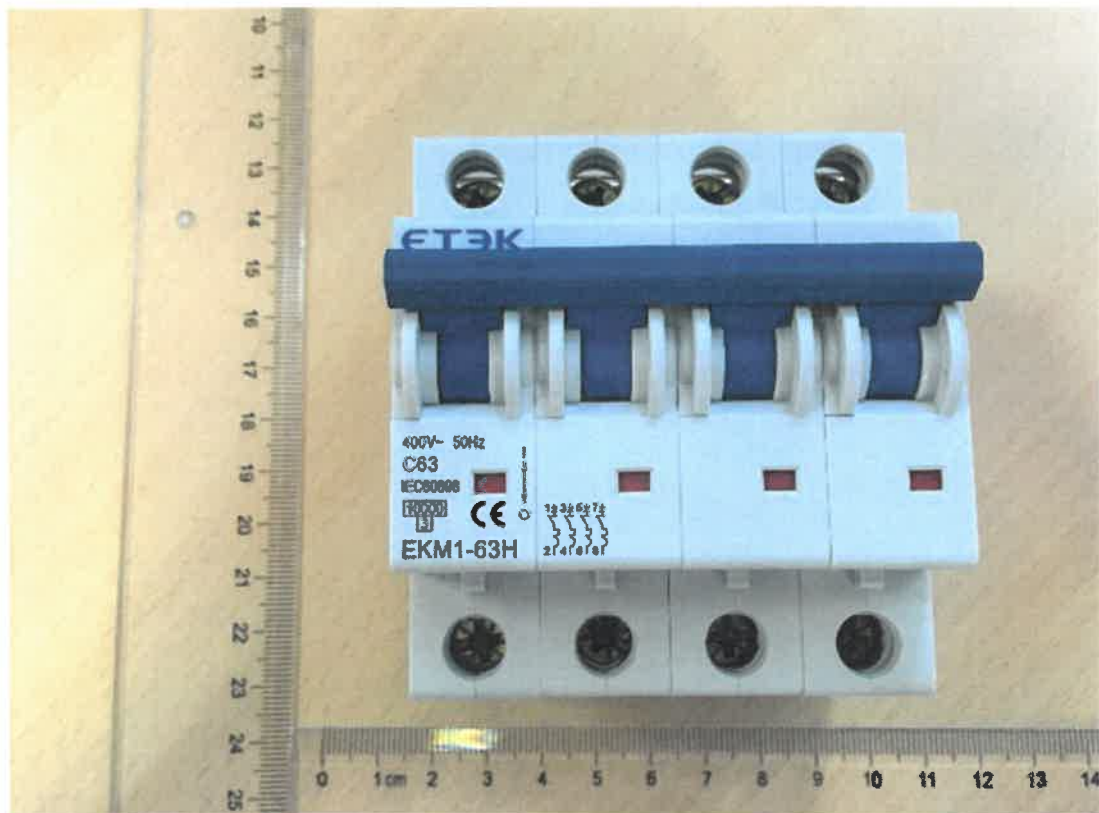
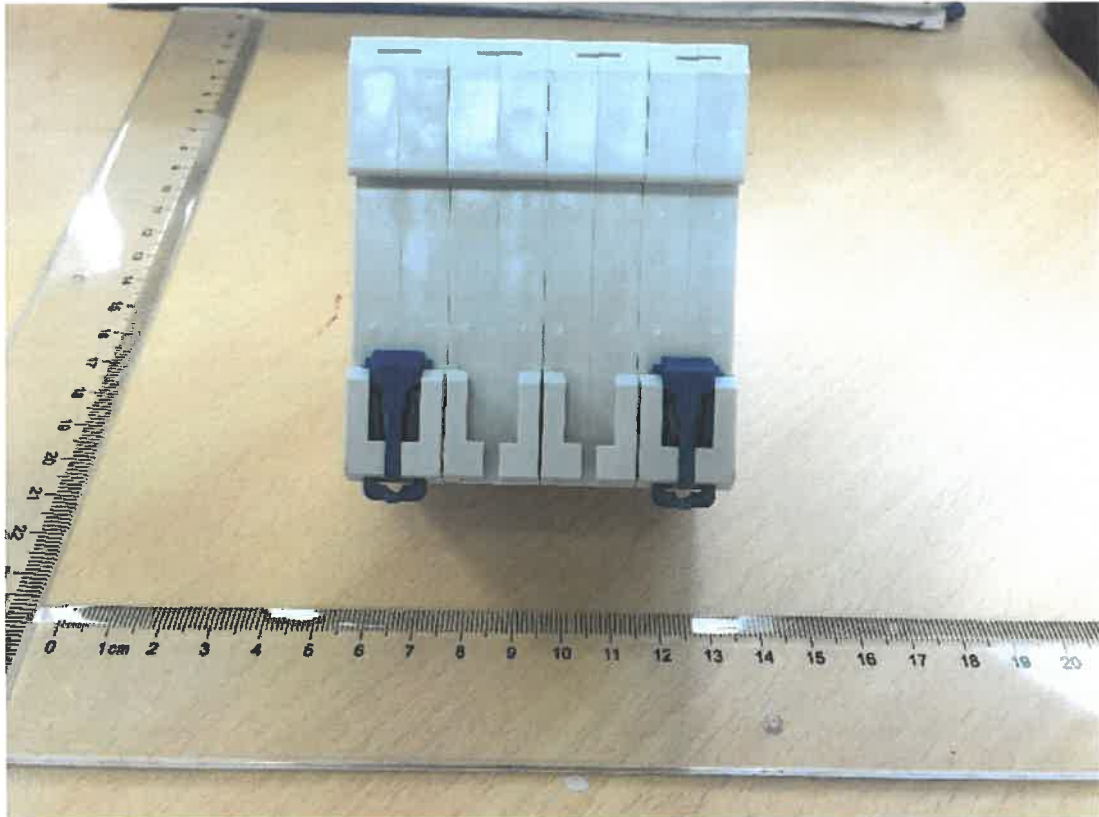


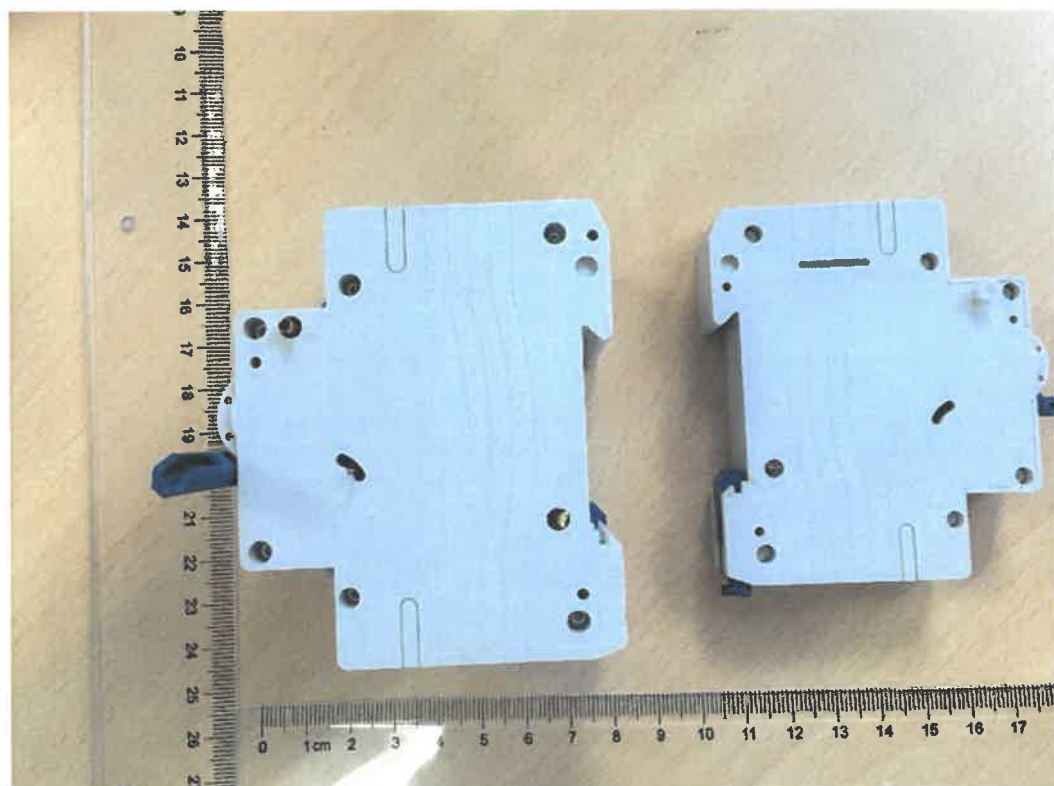
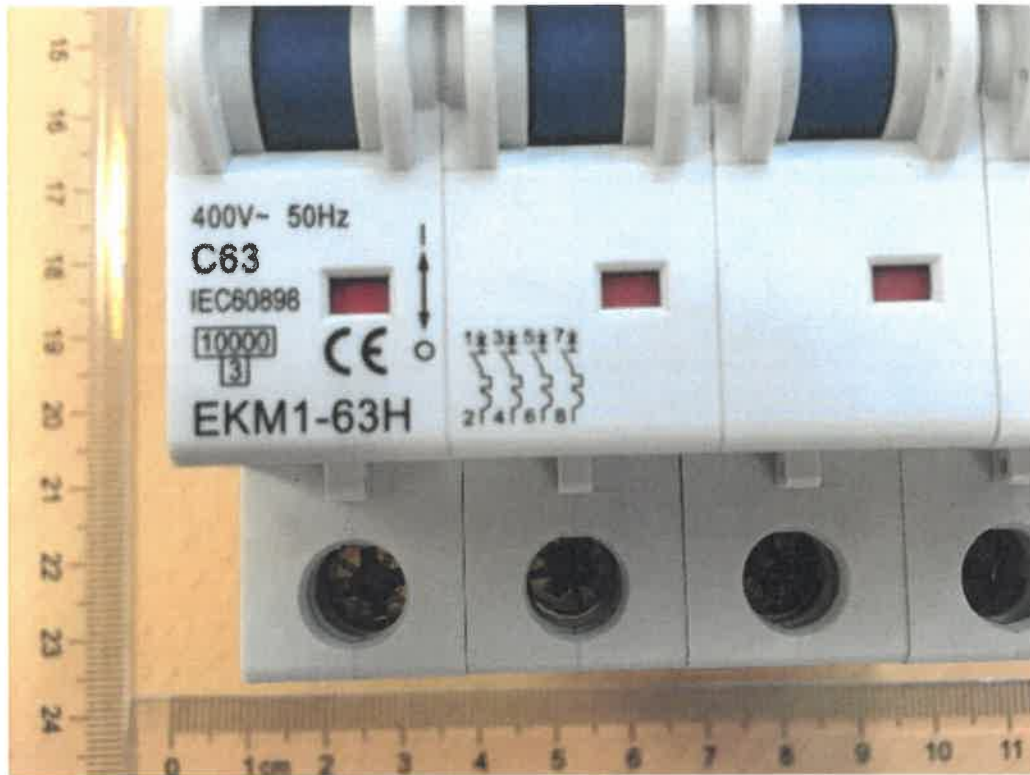


Those pictures are about EKM1-63H (2P, B40)









Those pictures are about EKM1-63H (4P, C63)

Certificate No. R 50449327 0001 Our Reference 01-DY-50302884 001 Appendix No. 1

Constructional Data Form (CDF) for Circuit-breaker (EN60898)

Page 1 of 4

License holder: Zhejiang ETEK Electrical technology CO.,Ltd.

Full address: NO.288 Wei17th Road, Yueqing Economic Development Zone Yueqing, Wenzhou, Zhejiang Province, P.R.China

Factory: Zhejiang ETEK Electrical technology CO.,Ltd.

Full address: NO.288 Wei17th Road, Yueqing Economic Development Zone Yueqing, Wenzhou, Zhejiang Province, P.R.China

Type or Model Number: EKM1-63; EKM1-63H

Kind of device: Miniature Circuit Breaker

Type designation	EKM1-63; EKM1-63H			
Contact material	Moving Contact: T2 Fixed Contact: T2			
Interrupting medium	Air			
Nature of supply	AC 50/60Hz			
Number of poles	1P	2P	3P	4P
Rated operational voltage Ue a.c.	230/400V	400V		
Rated current In	In=1A,2A,4A ,6A, 10A,16A,20A,25A,32A,40A,50A,63A (B/C- type); In=6A, 10A,16A,20A,25A,32A,40A,50A,63A (D- type); for EKM1-63			
Instantaneous tripping current	B/C/D- type			
Rated short-circuit capacity Icn a.c.	6,0kA for EKM1-63; 10 kA for EKM1-63H;			
Service short-circuit capacity Ics a.c.	6,0kA for EKM1-63; 7,5kA for EKM1-63H;			
Rated making and breaking capacity on an individual pole Icn1	Same as Icn			
Rated insulation voltage	500 V			
Rated impulse withstand voltage	4,0 kV			
Degree of protection	IP20			
Protection against external influence	Unenclosed type			
Method of mounting	Flush-type (on rail)			
Range of ambient air temperature	30 °C			
Method of connection	Not associated with mechanical mounting			
Overvoltage category	II			
Suitability of isolation	Yes			
Pollution degree	2			
I2t characteristic (energy limit class)	3			

TÜV Rheinland Group

License holder

2019.10.18



Date

Signature

Name

Company Stamp and Signature

Certificate No. R 50449327 0001 Our Reference 01-DY-50302884 001 Appendix No. 1

Constructional Data Form (CDF) for Circuit-breaker (EN60898)

Page 2 of 4

Terminals /connection:

Type designation	EKM1-63; EKM1-63H			
Number of poles	1P	2P	3P	4P
Terminal designation; main circuit (AC)	1, 2	1, 3, 2, 4	1, 3, 5, 2, 4, 6	1, 3, 5, 7, 2, 4, 6, 8
Terminal designation; control circuit	-			
Type of Terminal/% main circuit	Pillar terminal / - %			
Type of terminal/% control circuit	- / - %			
Type of conductor main circuit	Rigid or flexible			
Type of conductor control circuit	-			
Required preparation of conductor	No			
Rigid Conductor size (mm ²)	Min. 1 to 2,5 (< 13 A) ... Max. 10 to 25 (50 - 80 A)			
Flexible Conductor size (mm ²)	Min. 1 to 2,5 (< 13 A) ... Max. 10 to 16 (50 - 80 A)			
Number of conductors per terminal	1			
Stripping length (mm)	Max.: 8,0 mm			
Tightening torque; main circuit (Nm)	2,0Nm (over 4,7mm up to and including 5,3mm)			
Tightening torque; control circuit (Nm)	-			
Material/plating terminal; main circuit	Zn Planted Cold-Roll Steel Q195			
Material/plating terminal; control circuit	-			
Material/plating of the screw	Zn Planted Cold-Roll Steel Q195			
Material/plating of the washer	-			

TÜV Rheinland Group

License holder

2023.10.09



Date

Signature

Name

Company Stamp and Signature



Certificate No. R 50449327 0001

Our Reference 01-DY-50302884 001

Appendix No. 1

Constructional Data Form (CDF) for Circuit-breaker (EN60898)

Page 3 of 4

Terminal Figure

Pillar terminal	☒	☐	☐	☐	☐	☐	☐	☐
								Other
Screw terminal	☐	☐	☐	☐				
Stud terminal	☐	☐						
Saddle terminal	☐	☐						
Lug terminal	☐	☐						

TÜV Rheinland Group

License holder

Date

Signature

Name

Company Stamp and Signature



TÜVRheinland®
DIN CERTCO



TÜVRheinland®

Certificate No. R 50449327 0001

Our Reference 01-DY-50302884 001

Appendix No. 1

Constructional Data Form (CDF) for Circuit-breaker (EN60898)

Page 4 of 4

Plastic insulating parts:

Part name	Manufacturer	Material name (particle)	CTI	Flame class	Material Group
Base & Cover	Zhejiang Pengyuan Electrical appliance Co., Ltd	PA66	175	GWT: 960°C	IIIa
Handle	Yueqing Jiashida Electrical appliance Co.,Ltd.	PA46	175	GWT: 650°C	IIIa

Other information: N/A

TÜV Rheinland Group

License holder

2019.10.18 ✓

Date

Signature

Name

Company Stamp and Signature