

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50492215

Blatt *Sheet*  
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
T.Z.	01-WTH-CN21ECYO 001	18.01.2021	(day/mo/yr)

**Genehmigungsinhaber *License Holder***  
ProJoy Electric Co., Ltd.  
XinTang Industrial Zone,  
North-city Street,  
PingJiang District  
Suzhou  
215000 Jiangsu  
P.R. China

**Fertigungsstätte *Manufacturing Plant***  
Jiangsu Projoy Electric Co., LTD  
NO.2266 Tai Yang Road,  
Xiangcheng District, Suzhou,  
Jiangsu  
P.R. China

## Prüfzeichen *Test Mark*



**Geprüft nach *Tested acc. to***  
EN 60898-1:2019

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

**Lizenzentgelte - Einheit**  
*License Fee - Unit*

## Miniature circuit breaker (MCB)

Type Designation	: 1) PEM1-63 2) PEM2-63 (PROJOY)	8
Number of Poles	: 1P/2P/3P/4P	
Rated Operation Voltage (Ue)	: 230/400VAC; 240/415VAC (1P) 400VAC or 415VAC (2P/3P/4P)	
Rated Frequency	: 50/60Hz	
Rated Current (In)	: 1/3/6/10/16/20/25/32/40/ 50/63A	
Instantaneous Tripping Current	: B/C/D-Type	
Rated Short-circuit Capacity (Icn)	: 1) 10,0kA 2) 6,0kA	
Rated Service Short-circuit Capacity (Ics)	: 1) 7,5kA 2) 6,0kA	
Rated Insulation Voltage (Ui)	: 500V	
Impulse Withstand Voltage (Uimp)	: 4,0kV	
Degree of Protection	: IP20	
Suitability of Isolation	: Yes	
Pollution Degree	: 2	

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## 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**

ProJoy Electric Co., Ltd.  
Mr. Tony Zhang

Date : 18.01.2021  
Our ref. : WTH 01  
Your ref.: T.Z.

XinTang Industrial Zone,  
North-city Street,  
PingJiang District  
Suzhou  
215000 Jiangsu  
P.R. China

**Ref : R TÜV-Mark Approval**

Type of Equipment : MCB  
Model Designation : See Certificate  
Certificate No. : R 50492215 0001  
Report No. : CN21ECYO 001

Dear Mr. Tony Zhang,

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: ProJoy Electric Co., Ltd.

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

ProJoy Electric Co., Ltd.  
Mr. Tony Zhang

Date : 18.01.2021  
Our ref. : WTH 01  
Your ref.: T.Z.

XinTang Industrial Zone,  
North-city Street,  
PingJiang District  
Suzhou  
215000 Jiangsu  
P.R. China

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : MCB  
Model Designation : See Certificate  
Certificate No. : AN 50492216 0001  
Report No. : CN21ECYO 001

Dear Mr. Tony Zhang,

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: ProJoy Electric Co., Ltd.

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

# C E R T I F I C A T E



of Conformity  
Low Voltage Directive 2014/35/EU

Registration No.: AN 50492216 0001

Report No.: CN21ECYO 001

Holder: ProJoy Electric Co., Ltd.  
XinTang Industrial Zone,  
North-city Street,  
PingJiang District  
Suzhou  
215000 Jiangsu  
P.R. China

Product: Miniature circuit breaker  
(MCB)

Identification: Type Designation: 1) PEM1-63 2) PEM2-63 (PROJOY)

Serial No. : Engineering sample

Remark: Issued in conjunction with TÜV Rheinland license  
R 50492215 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 18.01.2021



Hao Zheng

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

Certificate No. R 50492215 0001 Our Reference 01-ZWC-CN21ECYO 001 Appendix No. 1

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

Page 1 of 3

Applicant: ProJoy Electric Co., Ltd.  
 (full address): XinTang Industrial Zone, North-city Street, PingJiang District, Suzhou 215000, P.R. China  
 Factory: Jiangsu Projoy Electric Co., LTD  
 (full address): NO.2266 Tai Yang Road, Xiangcheng District, Suzhou, P.R. China  
 Type or Model Number: PEM1-63; PEM2-63  
 Kind of device: Miniature Circuit-breakers (MCB)

Information/rated values for the switching element:

Type designation	PEM1-63; PEM2-63	
Contact material	Moving Contact: T3Y2 Fixed Contact: T3Y2	
Interrupting medium	Air	
Nature of supply	AC 50/60Hz	
Number of poles	1P	2P, 3P, 4P
Number of protection pole	1P, 2P, 3P, 4P	
Rated operational voltage Ue a.c.	230/400V; 240/415V	400V; 415V
Rated current In	1A, 3A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	
Instantaneous tripping current	B/C/D -type	
Rated short-circuit capacity Icn a.c.	10,0kA(PEM1-63); 6,0kA(PEM2-63)	
Rated short-circuit capacity Icn d.c.	- kA	
Service short-circuit capacity Ics a.c.	7,5kA(PEM1-63); 6,0kA(PEM2-63)	
Service short-circuit capacity Ics d.c.	- kA	
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)	//	

TÜV Rheinland Group

14.01.2021



License holder

Date

Signature

Name

Company Stamp and Signature

Certificate No. R 50492215 0001 Our Reference 01-ZWC-CN21ECYO 001 Appendix No. 1

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

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Terminals /connection:

Type designation	PEM1-63; PEM2-63			
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; main circuit (DC)	-	-	-	-
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 <sup>2</sup> )	Min. 1 to 2,5 (< 13 A) ... Max. 10 to 25 (50 - 80 A)			
Flexible Conductor size (mm <sup>2</sup> )	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-2.5N.m			
Tightening torque; control circuit (Nm)	-			
Material/plating terminal; main circuit	T3Y2			
Material/plating terminal; control circuit	-			
Material/plating of the screw	Sn Planted STEEL			
Material/plating of the washer	-			

**TÜV Rheinland Group**

**License holder**

14.01.2021



Date

Signature

Name

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

Page 3 of 3

Plastic insulating parts:

Part name	Manufacturer	Material name	PTI	Flame class	Material Group
Base & Cover	KINGFA SCI.&TECH.CO.,LTD	PA66+30%GF	400	GWT; 850°C	II
	TAISU PLASTIFICATION MATERIAL SCI&TECH CO.,LTD				
	HANGZHOU BENSON NEW MATERIALS TECHNOLOGY CO.,LTD				
Handle	KINGFA SCI.&TECH.CO.,LTD	PA66+30%GF	175	GWT; 650°C	IIIb
	TAISU PLASTIFICATION MATERIAL SCI&TECH CO.,LTD				
	CGN Juner New Materials CO.,LTD				

**TÜV Rheinland Group**

**License holder**

14.01.2021



Date

Signature

Name

Company Stamp and Signature