



ÖVE-CERTIFICATE

including the entitlement to use the Austrian Safety Mark



Certificate No.: **85980-001-01**

Valid from: 2019 08 27
until: 2021 08 27

The Austrian Electrotechnical Association (OVE) hereby grants the right to the company mentioned below to label the listed products with the Austrian Safety Mark.

Company: **Raycap GmbH**
Parkring 11
85748 Garching bei München
Germany

Product: **Surge protective device**

The products submitted by the applicant were type tested in accordance with the requirements of the technical standards and specifications listed in this certificate. OVE certifies the conformity of the listed products and those products manufactured strictly identical to the submitted ones (EN ISO/IEC 17067, Conformity Assessment Scheme Type 5).

The manufacturing process and the products are subject to ongoing surveillance based on harmonized European procedures. This certificate has been issued under the presumption and conditional on the fact that the applicant holds all necessary legal rights with regard to the product, presented for the testing and certification.

Results of testing are shown in file No(s): **3235, 1447/07-NA2**

Österreichischer Verband für Elektrotechnik
Head of Testing and Certification

Digitally signed by W. Martin
Email=w.martin@ove.at

Dipl.-Ing. W. Martin

Wien, 2019 11 06



OVE Testing and Certification

Accredited by the Federal Ministry for Digital and Economic Affairs as Certification Body for products within the scope as given in the official decree and published under www.bmdw.gv.at/akkreditierung.



Manufacturer:

Raycap d.o.o.
Poslovna cona Žeje pri Komendi
Pod hrasti 7
1218 Komenda
Slovenia

Factory location(s):

Raycap d.o.o.
Poslovna cona Žeje pri Komendi
Pod hrasti 7
1218 Komenda
Slovenia

Tested and certified according to:

OVE EN 61643-11:2019-04-01

This certificate is the basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent and shows the conformity with the listed standards as defined by the **EU Low-Voltage Directive 2014/35/EU**.

Product: Surge protective device

Type designation:

Rating:

Trademark:

Series PROTEC C(R)

see type list

ISKRA ZAŠČITE

Series PROTEC C, PROTEC CR

see type list

Raycap

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Typelist

Trademark: ISKRA ZAŠČITE

Type designation - complete SPD modules	Earthing system	Construction	Poles
PROTEC C(R) 40/440	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C 40/440	1
PROTEC C(R) 80/440 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C 40/440 N-PE: PROTUBE C 40	2
PROTEC C(R) 80/440 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C 40/440	2
PROTEC C(R) 120/440 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C 40/440	3
PROTEC C(R) 160/440 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C 40/440	4
PROTEC C(R) 160/440 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C 40/440 N-PE: PROTUBE C 40	4
PROTEC C(R) 40/385	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C 40/385	1
PROTEC C(R) 80/385 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C 40/385 N-PE: PROTUBE C 40	2
PROTEC C(R) 80/385 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C 40/385	2
PROTEC C(R) 120/385 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C 40/385	3
PROTEC C(R) 160/385 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C 40/385	4
PROTEC C(R) 160/385 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C 40/385 N-PE: PROTUBE C 40	4
PROTEC C(R) 40/320	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C 40/320	1
PROTEC C(R) 80/320 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C 40/320 N-PE: PROTUBE C 40	2
PROTEC C(R) 80/320 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C 40/320	2
PROTEC C(R) 120/320 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C 40/320	3
PROTEC C(R) 160/320 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C 40/320	4
PROTEC C(R) 160/320 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C 40/320 N-PE: PROTUBE C 40	4

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Typelist

Trademark: ISKRA ZAŠČITE

Type designation - complete SPD modules	Earthing system	Construction	Poles
PROTEC C(R) 40/275	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C 40/275	1
PROTEC C(R) 80/275 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C 40/275 N-PE: PROTUBE C 40	2
PROTEC C(R) 80/275 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C 40/275	2
PROTEC C(R) 120/275 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C 40/275	3
PROTEC C(R) 160/275 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C 40/275	4
PROTEC C(R) 160/275 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C 40/275 N-PE: PROTUBE C 40	4
PROTEC C(R) 40/150	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 120/208V$)	PROTEC C 40/150	1
PROTEC C(R) 80/150 (1+1)	TT ($U_0 \leq 120/208V$)	1+1 circuit L-N: PROTEC C 40/150 N-PE: PROTUBE C 40	2
PROTEC C(R) 80/150 (2+0)	TN-S ($U_0 \leq 120/208V$)	L/N-PE: PROTEC C 40/150	2
PROTEC C(R) 120/150 (3+0)	TN-C ($U_0 \leq 120/208V$)	L1/L2/L3-PEN: PROTEC C 40/150	3
PROTEC C(R) 160/150 (4+0)	TN-S ($U_0 \leq 120/208V$)	L1/L2/L3/N-PE: PROTEC C 40/150	4
PROTEC C(R) 160/150 (3+1)	TT ($U_0 \leq 120/208V$)	3+1 circuit L1/L2/L3-N: PROTEC C 40/150 N-PE: PROTUBE C 40	4
PROTUBE C 40/255	TN, TT → N-PE ($U_0 \leq 230V$)	N-PE: PROTUBE C 40	1

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Typelist

Trademark: ISKRA ZAŠČITE

Type designation - spare cartridges	Information	U _c [VAC]	Class II		U _p [kV]
			I _n [kA]	I _{max} [kA]	
PROTEC C 40/440	Spare cartridge (varistor) for PROTEC C(R) 440V complete SPD modules	440	20	40	≤ 2,0
PROTEC C 40/385	Spare cartridge (varistor) for PROTEC C(R) 385V complete SPD modules	385	20	40	≤ 1,9
PROTEC C 40/320	Spare cartridge (varistor) for PROTEC C(R) 320V complete SPD modules	320	20	40	≤ 1,5
PROTEC C 40/275	Spare cartridge (varistor) for PROTEC C(R) 275V complete SPD modules	275	20	40	≤ 1,5
PROTEC C 40/150	Spare cartridge (varistor) for PROTEC C(R) 150V complete SPD modules	150	20	40	≤ 1,0
PROTUBE C 40	Spare cartridge (Gas discharge tube) for all 1+0, 1+1 and 3+1 complete SPDs (N-PE mode only)	255	20	40	≤ 1,5

Base modules	Information
1+0	1 pole base module for PROTEC C spare cartridges
1+1	1+1 pole base module for PROTEC C spare cartridges
2+0	2+0 pole base module for PROTEC C spare cartridges
3+0	3+0 pole base module for PROTEC C spare cartridges
4+0	4+0 pole base module for PROTEC C spare cartridges
3+1	3+1 pole base module for PROTEC C spare cartridges

(R).....remote contact (modules can be ordered with or without remote contact).

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Typelist

Trademark: RAYCAP

Type designation - complete SPD modules	Earthing system	Construction	Poles
PROTEC CR 40/440 (1+0) PROTEC C 40/440 (1+0)	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C(R) 40/440	1
PROTEC CR 80/440 (1+1) PROTEC C 80/440 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C(R) 40/440 N-PE: PROTUBE C 40/255	2
PROTEC CR 80/440 (2+0) PROTEC C 80/440 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C(R) 40/440	2
PROTEC CR 120/440 (3+0) PROTEC C 120/440 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C(R) 40/440	3
PROTEC CR 160/440 (4+0) PROTEC C 160/440 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C(R) 40/440	4
PROTEC CR 160/440 (3+1) PROTEC C 160/440 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C(R) 40/440 N-PE: PROTUBE C 40/255	4
PROTEC CR 40/385 (1+0) PROTEC C 40/385 (1+0)	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C(R) 40/385	1
PROTEC CR 80/385 (1+1) PROTEC C 80/385 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C(R) 40/385 N-PE: PROTUBE C 40/255	2
PROTEC CR 80/385 (2+0) PROTEC C 80/385 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C(R) 40/385	2
PROTEC CR 120/385 (3+0) PROTEC C 120/385 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C(R) 40/385	3
PROTEC CR 160/385 (4+0) PROTEC C 160/385 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C(R) 40/385	4
PROTEC CR 160/385 (3+1) PROTEC C 160/385 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C(R) 40/385 N-PE: PROTUBE C 40/255	4
PROTEC CR 40/320 (1+0) PROTEC C 40/320 (1+0)	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C(R) 40/320	1
PROTEC CR 80/320 (1+1) PROTEC C 80/320 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C(R) 40/320 N-PE: PROTUBE C 40/255	2
PROTEC CR 80/320 (2+0) PROTEC C 80/320 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C(R) 40/320	2
PROTEC CR 120/320 (3+0) PROTEC C 120/320 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C(R) 40/320	3
PROTEC CR 160/320 (4+0) PROTEC C 160/320 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C(R) 40/320	4
PROTEC CR 160/320 (3+1) PROTEC C 160/320 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C(R) 40/320 N-PE: PROTUBE C 40/255	4

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PROTEC CR 40/275 (1+0) PROTEC C 40/275 (1+0)	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	PROTEC C(R) 40/275	1
PROTEC CR 80/275 (1+1) PROTEC C 80/275 (1+1)	TT ($U_0 \leq 230/400V$)	1+1 circuit L-N: PROTEC C(R) 40/275 N-PE: PROTUBE C 40/255	2
PROTEC CR 80/275 (2+0) PROTEC C 80/275 (2+0)	TN-S ($U_0 \leq 230/400V$)	L/N-PE: PROTEC C(R) 40/275	2
PROTEC CR 120/275 (3+0) PROTEC C 120/275 (3+0)	TN-C ($U_0 \leq 230/400V$)	L1/L2/L3-PEN: PROTEC C(R) 40/275	3
PROTEC CR 160/275 (4+0) PROTEC C 160/275 (4+0)	TN-S ($U_0 \leq 230/400V$)	L1/L2/L3/N-PE: PROTEC C(R) 40/275	4
PROTEC CR 160/275 (3+1) PROTEC C 160/275 (3+1)	TT ($U_0 \leq 230/400V$)	3+1 circuit L1/L2/L3-N: PROTEC C(R) 40/275 N-PE: PROTUBE C 40/255	4
PROTEC CR 40/150 (1+0) PROTEC C 40/150 (1+0)	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 120/208V$)	PROTEC C(R) 40/150	1
PROTEC CR 80/150 (1+1) PROTEC C 80/150 (1+1)	TT ($U_0 \leq 120/208V$)	1+1 circuit L-N: PROTEC C(R) 40/150 N-PE: PROTUBE C 40/255	2
PROTEC CR 80/150 (2+0) PROTEC C 80/150 (2+0)	TN-S ($U_0 \leq 120/208V$)	L/N-PE: PROTEC C(R) 40/150	2
PROTEC CR 120/150 (3+0) PROTEC C 120/150 (3+0)	TN-C ($U_0 \leq 120/208V$)	L1/L2/L3-PEN: PROTEC C(R) 40/150	3
PROTEC CR 160/150 (4+0) PROTEC C 160/150 (4+0)	TN-S ($U_0 \leq 120/208V$)	L1/L2/L3/N-PE: PROTEC C(R) 40/150	4
PROTEC CR 160/150 (3+1) PROTEC C 160/150 (3+1)	TT ($U_0 \leq 120/208V$)	3+1 circuit L1/L2/L3-N: PROTEC C(R) 40/150 N-PE: PROTUBE C 40/255	4
PROTUBE C 40/255	TN, TT → N-PE ($U_0 \leq 230V$)	N-PE: PROTUBE C 40/255	1

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			I _n [kA]	I _{max} [kA]	
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PROTEC C(R) 40/385	Spare cartridge (varistor) for PROTEC C(R) 385V complete SPD modules	385	20	40	≤ 1,9
PROTEC C(R) 40/320	Spare cartridge (varistor) for PROTEC C(R) 320V complete SPD modules	320	20	40	≤ 1,5
PROTEC C(R) 40/275	Spare cartridge (varistor) for PROTEC C(R) 275V complete SPD modules	275	20	40	≤ 1,5
PROTEC C(R) 40/150	Spare cartridge (varistor) for PROTEC C(R) 150V complete SPD modules	150	20	40	≤ 1,0
PROTUBE C 40/255	Spare cartridge (Gas discharge tube) for all 1+0, 1+1 and 3+1 complete SPDs (N-PE mode only)	255	20	40	≤ 1,5

Rwith remote contact

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