



Ref. Certif. No.

AT 3084

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE

## CERTIFICAT D'ESSAI OC

Product  
ProduitName and address of the applicant  
Nom et adresse du demandeurName and address of the manufacturer  
Nom et adresse du fabricantName and address of the factory  
Nom et adresse de l'usineNote: When more than one factory, please report on page 2  
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2<sup>ème</sup> pageRatings and principal characteristics  
Valeurs nominales et caractéristiques principalesTrademark (if any)  
Marque de fabrique (si elle existe)Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais constructeurModel / Type Ref.  
Ref. de typeAdditional information (if necessary may also be  
reported on page 2)  
Les informations complémentaires (si nécessaire,  
peuvent être indiqués sur la 2<sup>ème</sup> page)A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à laAs shown in the Test Report Ref. No. which forms part  
of this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue partie de ce CertificatThis CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

## Surge protective device

ABB France - Pôle Foudre Soulé & Hélita  
Parc Industriel de Haute Bigorre  
1, avenue des victimes du 11 juin 1944,  
65203 Bagnères-de-Bigorre, FranceABB France - Pôle Foudre Soulé & Hélita  
Parc Industriel de Haute Bigorre  
1, avenue des victimes du 11 juin 1944,  
65203 Bagnères-de-Bigorre, FranceABB Bulgaria EOOD  
Industrial Zone 28,  
4150 Rakovski, Plovdiv, Bulgaria Additional Information on page 2Uc = 275, 350 or 440 V; In = 5, 20 or 30 kA;  
Imax = 20, 40 or 80 kA;  
Uoc = 6 kV (only for types Series OVR T2-T3 ...)

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Series OVR T2,  
Series OVR T2-T3,  
see pages 10 to 12 of test report CTI-CB 830-1

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 Additional Information on page 2

IEC 61643-11(ed.1)

CTI-CB 830-1 to 830-6

AUSTRIAN ELECTROTECHNICAL ASSOCIATION  
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Date: 2014-07-03

ZVR: 327279890 | DVR: 1055887

## Type spectrum covered by test reports CTI-CB 830-1 to CTI-CB 830-6:

<b>Ordering key (ABB)</b>	e.g. OVR T2 3L 40-275 P QS	OVR T2 3L 40 275	series test class number of poles $I_{max}$ $U_c$
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<b>Ordering key (soulé)</b>	e.g. PMD 40-230 TRI QS	PMD 40 230 TRI	series $I_{max}$ power system number of poles
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Complete SPD modules:

### OVR T2 . 40-275 and PUD/PMD 40-230 ... types

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2 40-275 P QS	PUD 40-230 QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	varistor		1	CTI-CB 830-3
OVR T2 3L 40-275 P QS	PMD 40-230 TRI QS	TN-C ( $U_0 \leq 230/400V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-3
OVR T2 4L 40-275 P QS	PMD 40-230 TETRA 4L QS	TN-S ( $U_0 \leq 230/400V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-3
OVR T2 1N 40-275 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-3 N-PE: CTI-CB 830-1
OVR T2 N1 40-275 P QS	PMD 40-230 BI QS	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-3 N-PE: CTI-CB 830-1
OVR T2 3N 40-275 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-3 N-PE: CTI-CB 830-1
OVR T2 N3 40-275 P QS	PMD 40-230 TETRA QS	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-3 N-PE: CTI-CB 830-1

### OVR T2 .40-350 and PUD/PMD 40-230+ ... types

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2 40-350 P QS	PUD 40-230+ QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	varistor		1	CTI-CB 830-2
OVR T2 3L 40-350 P QS	PMD 40-230+ TRI QS	TN-C ( $U_0 \leq 230/400V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-2
OVR T2 4L 40-350 P QS	PMD 40-230+ TETRA 4L QS	TN-S ( $U_0 \leq 230/400V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-2
OVR T2 1N 40-350 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-2 N-PE: CTI-CB 830-1
OVR T2 N1 40-350 P QS	PMD 40-230+ BI QS	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-2 N-PE: CTI-CB 830-1
OVR T2 3N 40-350 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-2 N-PE: CTI-CB 830-1
OVR T2 N3 40-350 P QS	PMD 40-230+ TETRA QS	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-2 N-PE: CTI-CB 830-1

**OVR T2 .40-440 and PUD/PMD 40-400 ... types**

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2 40-440 P QS	PUD 40-400 QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 400/690V$ )	varistor		1	CTI-CB 830-1
OVR T2 3L 40-440 P QS	PMD 40-400 TRI QS	TN-C ( $U_0 \leq 400/690V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-1
OVR T2 4L 40-440 P QS	PMD 40-400 TETRA 4L QS	TN-S ( $U_0 \leq 400/690V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-1
OVR T2 1N 40-440 P QS		TN-S/TT ( $U_0 \leq 400/690V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	CTI-CB 830-1
OVR T2 N1 40-440 P QS	PMD 40-400 BI QS	TN-S/TT ( $U_0 \leq 400/690V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	CTI-CB 830-1
OVR T2 3N 40-440 P QS		TN-S/TT ( $U_0 \leq 400/690V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	CTI-CB 830-1
OVR T2 N3 40-440 P QS	PMD 40-400 TETRA QS	TN-S/TT ( $U_0 \leq 400/690V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	CTI-CB 830-1

**OVR T2-T3 . 20-275 and PUD/PMD 20-230 ... types**

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2-T3 20-275 P QS	PUD 20-230 QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	varistor		1	CTI-CB 830-6
OVR T2-T3 3L 20-275 P QS	PMD 20-230 TRI QS	TN-C ( $U_0 \leq 230/400V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-6
OVR T2-T3 4L 20-275 P QS	PMD 20-230 TETRA 4L QS	TN-S ( $U_0 \leq 230/400V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-6
OVR T2-T3 1N 20-275 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-6 N-PE: CTI-CB 830-1
OVR T2-T3 N1 20-275 P QS	PMD 20-230 BI QS	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-6 N-PE: CTI-CB 830-1
OVR T2-T3 3N 20-275 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-6 N-PE: CTI-CB 830-1
OVR T2-T3 N3 20-275 P QS	PMD 20-230 TETRA QS	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-6 N-PE: CTI-CB 830-1

**OVR T2-T3 . 20-350 and PUD/PMD 20-230+ ... types**

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2-T3 20-350 P QS	PUD 20-230+ QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	varistor		1	CTI-CB 830-5
OVR T2-T3 3L 20-350 P QS	PMD 20-230+ TRI QS	TN-C ( $U_0 \leq 230/400V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-5
OVR T2-T3 4L 20-350 P QS	PMD 20-230+ TETRA 4L QS	TN-S ( $U_0 \leq 230/400V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-5
OVR T2-T3 1N 20-350 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-5 N-PE: CTI-CB 830-1
OVR T2-T3 N1 20-350 P QS	PMD 20-230+ BI QS	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-5 N-PE: CTI-CB 830-1
OVR T2-T3 3N 20-350 P QS		TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-5 N-PE: CTI-CB 830-1
OVR T2-T3 N3 20-350 P QS	PMD 20-230+ TETRA QS	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-5 N-PE: CTI-CB 830-1

**OVR T2-T3 . 20-440 and and PUD/PMD 20-400 ... types**

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction		Poles	Covered by test reports
OVR T2-T3 20-440 P QS	PUD 20-400 QS	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 400/690V$ )	varistor		1	CTI-CB 830-4
OVR T2-T3 3L 20-440 P QS	PMD 20-400 TRI QS	TN-C ( $U_0 \leq 400/690V$ )	L1/L2/L3-PEN: varistor		3	CTI-CB 830-4
OVR T2-T3 4L 20-440 P QS	PMD 20-400 TETRA 4L QS	TN-S ( $U_0 \leq 400/690V$ )	L1/L2/L3/N-PE: varistor		4	CTI-CB 830-4
OVR T2-T3 1N 20-440 P QS		TN-S/TT ( $U_0 \leq 400/690V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-4 N-PE: CTI-CB 830-1
OVR T2-T3 N1 20-440 P QS	PMD 20-400 BI QS	TN-S/TT ( $U_0 \leq 400/690V$ )	1+1 circuit	L-N: varistor N-PE: gas discharge tube	2	L-N: CTI-CB 830-4 N-PE: CTI-CB 830-1
OVR T2-T3 3N 20-440 P QS		TN-S/TT ( $U_0 \leq 400/690V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-4 N-PE: CTI-CB 830-1
OVR T2-T3 N3 20-440 P QS	PMD 20-400 TETRA QS	TN-S/TT ( $U_0 \leq 400/690V$ )	3+1 circuit	L1/L2/L3-N: varistor N-PE: gas discharge tube	4	L-N: CTI-CB 830-4 N-PE: CTI-CB 830-1

**OVR T2 N 80-... and PUD 80-... types (gas discharge tubes for N-PE mode)**

SPD – Complete module (ABB)	SPD – Complete module (soulé)	Earthing system	Construction	Poles	Covered by test reports
OVR T2 N 80-275 P QS	PUD 80-230 N QS	TN/TT → N-PE ( $U_0 \leq 230/400V$ )	gas discharge tube	1	CTI-CB 830-1
OVR T2 N 80-350 P QS	PUD 80-230+ N QS	TN/TT → N-PE ( $U_0 \leq 230/400V$ )	gas discharge tube	1	CTI-CB 830-1
OVR T2 N 80-440 P QS	PUD 80-400 N QS	TN/TT → N-PE ( $U_0 \leq 400/690V$ )	gas discharge tube	1	CTI-CB 830-1