

CERTIFICATE

Issued to:
Applicant:
ABB S.P.A.
Via Vittor Pisani 16
20124 Milano, Italy

Licensee:
ABB S.p.A.
Viale dell'Industria 18
20009 Vittuone (MI), Italy

Product : Residual current operated circuit-breaker (RCCBs)
Trade name(s) : AEG
Type(s)/model(s) : FN series

The product and any acceptable variation thereto as specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to EN 61008-1:2012, EN 61008-1:2012/A1:2014, EN 61008-1:2012/A2:2014, EN 61008-1:2012/A11:2015, EN 61008-1:2012/A12:2017, EN 61008-2-1:1994 and EN 61008-2-1:1994/A11:1998
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6065705

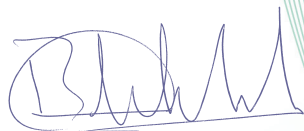
DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 19 October 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-131657

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.L. Schendstok
Certification Manager

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ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



71-131657

SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Residual current operated circuit-breaker (RCCBs)
Trade name(s)	: AEG
Type(s)/model(s)	: FN../A30, FN../A300, FN../A500, FN../AC30, FN../AC300, FN../AS300, FN../AS500, FN../Ai30 and FN../Si300
Rated impulse withstand voltage (Uimp)	: 4 kV
Rated current (In)	: 25 A, 40 A, 63 A
Rated frequency	: 50 Hz
Rated making and breaking capacity (Im)	: 500 A or 10 In, whichever is the greater
Rated residual making and breaking capacity (IΔm)	: 500 A or 10 In, whichever is the greater
Rated conditional short-circuit current (Inc)	: 10 kA
Rated conditional residual short-circuit current (IΔc)	: 10 kA
Method of operation	: functionally independent of line voltage
Type of installation	: for fixed installation and fixed wiring
Number of poles	: 2 poles 4 poles (3-pole + N)
Protection against external influences	: unenclosed
Method of mounting	: distribution board type
Method of connection	: the electrical connections of RCCBs are not associated with the mechanical mounting
Safety distance "a" (grid)	: 35 mm
Type of terminals	: pillar terminal
Range of ambient air temperature	: -25 °C to +40 °C

Product data – type FN../A30

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (IΔn)	: 30 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type for general use
Description	: The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN../A300

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 300 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type for general use
Description	: The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN../A500

Rated operational voltage (Ue)	: 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 500 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type for general use
Description	: The first digit in the type reference denotes the number of poles, it can be 4 only The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN../AC30

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 30 mA
Behaviour in presence of d.c. components	: type AC
Time-delay	: type for general use
Description	: The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN../AC300

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 300 mA
Behaviour in presence of d.c. components	: type AC
Time-delay	: type for general use
Description	: The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN./Ai30

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 30 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type for general use
Description	: type Ai RCCBs are type A RCCBs with a short time-delay (not type S time-delay) The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

Product data – type FN./AS300

Rated operational voltage (Ue)	: 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 300 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type S for selectivity
Description	: The first digit in the type reference denotes the number of poles, it can be 4 only The second digit in the type reference denotes the rated current, it can be 40 or 63

Product data – type FN./AS500

Rated operational voltage (Ue)	: 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 500 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type S for selectivity
Description	: The first digit in the type reference denotes the number of poles, it can be 4 only The second digit in the type reference denotes the rated current, it can be 63 only

Product data – type FN./Si300

Rated operational voltage (Ue)	: 230 Vac for 2-Pole RCCB 400 Vac for 3-pole + N RCCB
Rated residual operating current (I Δ n)	: 300 mA
Behaviour in presence of d.c. components	: type A
Time-delay	: type S for selectivity
Description	: The first digit in the type reference denotes the number of poles, it can be 2 or 4 The second digit in the type reference denotes the rated current, it can be 25, 40 or 63

TESTS

Test requirements

EN 61008-1:2012
EN 61008-1:2012/A1:2014
EN 61008-1:2012/A2:2014
EN 61008-1:2012/A11:2015
EN 61008-1:2012/A12:2017
EN 61008-2-1:1994
EN 61008-2-1:1994/A11:1998

Test result

The test results are laid down in DEKRA test file 227923700.

Additional information

Example of type reference:
FN225/A30 (2-pole, In 25 A, type A, IΔn 30 mA)

Conclusion

The examination proved that all requirements were met.

Factory location

ABB S.p.A.
Via Ardeatina 2491
00134 Santa Palomba (RM), Italy



Certificado AENOR de Producto AENOR Product Certificate



030/002610

AENOR certifica que | AENOR certifies that

ABB S.p.A.

Domicilio social / Registered office

VIA VITTOR PISANI, 16
20124 MILANO (Italia)

suministra el producto
supplies the product

**Interruptor automático para actuar por corriente
diferencial residual, sin dispositivo de protección contra
sobreintensidades, para uso doméstico y analógicos (ID)
Residual current operated circuit-breaker without
integral overcurrent protection (RCCB's)**

conforme con / in compliance with

UNE-EN 61008-1:2013 (EN 61008-1:2012)
UNE-EN 61008-1:2013/A1:2015 (EN 61008-1:2012/A1:2014)
UNE-EN 61008-1:2013/A2:2015 (EN 61008-1:2012/A2:2014)
UNE-EN 61008-1:2013/A11:2016 (EN 61008-1:2012/A11:2015)
UNE-EN 61008-1:2013/A12:2017 (EN 61008-1:2012/A12:2017)
UNE-EN 61008-2-1:1996 (EN 61008-2-1:1994)
UNE-EN 61008-2-1/A11:1999 (EN 61008-2-1:1994/A11:1998)

Referencias
References

Detalladas en el Anexo al Certificado
Specified in Annex to the Certificate

Centro de producción / Production site

VIA ARDEATINA, 2491
00134 SANTA PALOMBA (Italia)

Esquema de evaluación
Assessment scheme

Este certificado se ha concedido de acuerdo con lo establecido en el
Reglamento Particular de Certificación de AENOR RP 030.15.
This Certificate has been granted in accordance with AENOR Specific
Rules RP 030.15.

Primera emisión / First issued
Expiración / Validity

2023-10-03
2028-10-03

Rafael GARCÍA MEIRO
CEO



AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
Tel. 91 432 60 00.- www.aenor.com



Certificado AENOR de Producto

AENOR Product Certificate

030/002610

Anexo al Certificado

Annex to Certificate

Marca Comercial/ Trade mark: AEG
Frecuencia/ Frequency: 50 Hz

Referencia/ Type Ref.	Nº de polos/ No. of poles	Tensión asignada (Un)/ Rated voltage	Corriente asignada/ Rated current	Corriente diferencial/ Rated residual current	IΔm	Im	Inc	IΔc	Tipo/ Type	Información adicional/ Additional information
FN225/AC30	2 P	230V~	25 A	30 mA	500 A	500 A	10kA	10kA	AC	
FN225/AC300	2 P	230V~	25 A	300 mA	500 A	500 A	10kA	10kA	AC	
FN225/Ai30	2 P	230V~	25 A	30 mA	500 A	500 A	10kA	10kA	Ai	
FN225/A30	2 P	230V~	25 A	30 mA	500 A	500 A	10kA	10kA	A	
FN225/A300	2 P	230V~	25 A	300 mA	500 A	500 A	10kA	10kA	A	
FN225/Si300	2 P	230V~	25 A	300 mA	500 A	500 A	10kA	10kA	Si	Temporizado/ Timed
FN240/AC30	2 P	230V~	40 A	30 mA	500 A	500 A	10kA	10kA	AC	
FN240/AC300	2 P	230V~	40 A	300 mA	500 A	500 A	10kA	10kA	AC	
FN240/Ai30	2 P	230V~	40 A	30 mA	500 A	500 A	10kA	10kA	Ai	
FN240/A30	2 P	230V~	40 A	30 mA	500 A	500 A	10kA	10kA	A	
FN240/A300	2 P	230V~	40 A	300 mA	500 A	500 A	10kA	10kA	A	
FN240/Si300	2 P	230V~	40 A	300 mA	500 A	500 A	10kA	10kA	Si	Temporizado/ Timed
FN263/AC30	2 P	230V~	63 A	30 mA	630 A	630 A	10kA	10kA	AC	
FN263/AC300	2 P	230V~	63 A	300 mA	630 A	630 A	10kA	10kA	AC	
FN263/Ai30	2 P	230V~	63 A	30 mA	630 A	630 A	10kA	10kA	Ai	
FN263/A30	2 P	230V~	63 A	30 mA	630 A	630 A	10kA	10kA	A	
FN263/A300	2 P	230V~	63 A	300 mA	630 A	630 A	10kA	10kA	A	
FN263/Si300	2 P	230V~	63 A	300 mA	630 A	630 A	10kA	10kA	Si	Temporizado/ Timed
FN425/AC30	4 P	400V~	25 A	30 mA	500 A	500 A	10kA	10kA	AC	
FN425/AC300	4 P	400V~	25 A	300 mA	500 A	500 A	10kA	10kA	AC	
FN425/Ai30	4 P	400V~	25 A	30 mA	500 A	500 A	10kA	10kA	Ai	
FN425/A30	4 P	400V~	25 A	30 mA	500 A	500 A	10kA	10kA	A	
FN425/A300	4 P	400V~	25 A	300 mA	500 A	500 A	10kA	10kA	A	
FN425/A500	4 P	400V~	25 A	500 mA	500 A	500 A	10kA	10kA	A	
FN425/Si300	4 P	400V~	25 A	300 mA	500 A	500 A	10kA	10kA	Si	Temporizado/ Timed
FN440/AC30	4 P	400V~	40 A	30 mA	500 A	500 A	10kA	10kA	AC	

Primera emisión / First issued 2023-10-03
Expiración / Validity 2028-10-03



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Certificado AENOR de Producto

AENOR Product Certificate

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Anexo al Certificado

Annex to Certificate

Referencia/ Type Ref.	Nº de polos/ No. of poles	Tensión asignada (Un)/ Rated voltage	Corriente asignada/ Rated current	Corriente diferencial/ Rated residual current	I _{Δm}	I _m	I _{nc}	I _{Δc}	Tipo/ Type	Información adicional/ Additional information
FN440/AC300	4 P	400V~	40 A	300 mA	500 A	500 A	10kA	10kA	AC	
FN440/Ai30	4 P	400V~	40 A	30 mA	500 A	500 A	10kA	10kA	Ai	
FN440/AS300	4 P	400V~	40 A	300 mA	500 A	500 A	10kA	10kA	AS	Temporizado/ Timed
FN440/A30	4 P	400V~	40 A	30 mA	500 A	500 A	10kA	10kA	A	
FN440/A300	4 P	400V~	40 A	300 mA	500 A	500 A	10kA	10kA	A	
FN440/A500	4 P	400V~	40 A	500 mA	500 A	500 A	10kA	10kA	A	
FN440/Si300	4 P	400V~	40 A	300 mA	500 A	500 A	10kA	10kA	Si	Temporizado/ Timed
FN463/AC30	4 P	400V~	63 A	30 mA	630 A	630 A	10kA	10kA	AC	
FN463/AC300	4 P	400V~	63 A	300 mA	630 A	630 A	10kA	10kA	AC	
FN463/Ai30	4 P	400V~	63 A	30 mA	630 A	630 A	10kA	10kA	Ai	
FN463/AS300	4 P	400V~	63 A	300 mA	630 A	630 A	10kA	10kA	AS	Temporizado/ Timed
FN463/AS500	4 P	400V~	63 A	500 mA	630 A	630 A	10kA	10kA	AS	Temporizado/ Timed
FN463/A30	4 P	400V~	63 A	30 mA	630 A	630 A	10kA	10kA	A	
FN463/A30PN	4 P	400V~	63 A	30 mA	630 A	630 A	10kA	10kA	A	
FN463/A300	4 P	400V~	63 A	300 mA	630 A	630 A	10kA	10kA	A	
FN463/A500	4 P	400V~	63 A	500 mA	630 A	630 A	10kA	10kA	A	
FN463/Si300	4 P	400V~	63 A	300 mA	630 A	630 A	10kA	10kA	Si	Temporizado/ Timed

Primera emisión / First issued 2023-10-03
Expiración / Validity 2028-10-03



AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
Tel. 91 432 60 00.- www.aenor.com

ZEICHENGENEHMIGUNG MARKS APPROVAL

ABB S.p.A.
Via Vittor Pisani 16
20124 Milano MI
Italy

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Fehlerstromschutzschalter ohne eingebauten
Überstromschutz, netzspannungsunabhängig (RCCB)**
***RCCB, residual current operated circuit-breaker without integral
overcurrent protection, functionally independent of line voltage***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 61008-1 (VDE 0664-10):2018-03; EN 61008-1:2012+A1+A2+A11+A1/AC:2016+A12:2017
DIN EN 61008-2-1 (VDE 0664 Teil 11):1999-12; EN 61008-2-1:1994+A11:1998

Aktenzeichen: 5004110-1720-0015 / 310846

File ref.:

Ausweis-Nr. 40057439

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2023-09-26

(letzte Änderung / updated 2023-10-05)

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

R. Nickel

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
ABB S.p.A., Via Vittor Pisani 16, 20124 MILANO MI, ITALY

Aktenzeichen / *File ref.*

5004110-1720-0015 / 310846 / TL3 / GRA

letzte Änderung / *updated*

2023-10-05

Datum / *Date*

2023-09-26

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40057439.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40057439.

Fehlerstromschutzschalter ohne eingebauten Überstromschutz,netzspannungsunabhängig (RCCB) RCCB, residual current operated circuit-breaker without integral overcurrent protection, functionally independent of line voltage

Typ(en) / *Type(s)*

FN Series

Typen / types FN.../

Bemessungsspannung
Rated voltage

AC 230 V
AC 400 V

Bemessungsstrom
Rated current

25 A; 40 A; 63 A

Anzahl der Pole
Number of poles

zweipolig / two-pole
dreipolig+N / three-pole + neutral

Bemessungsfehlerstrom
Rated residual operating current

0,03 A; 0,3 A;
0,1 A (*dreipolig + N / three pole + neutral*)
0,5 A (*dreipolig + N / three-pole + neutral*)

Bemessungsschaltvermögen
Rated making and breaking capacity

500 A (25 A; 40 A)
630 A (63A)

Bedingter Bemessungskurzschlussstrom
Rated conditional short-circuit current

10000 A

Vorsicherung / Kurzschlusschutzeinricht
Fuse / Short-circuit protection device

80 A gG

Verhalten bei Gleichstromanteilen
Behaviour in presence of d.c. components

Typ / type: A; A-S

Umgebungstemperatur
Ambient temperature

-25°C/+40°C

Weitere Angaben
Further information

siehe Anlage 100 vom 2023-10-05
see Appendix 100 dated 2023-10-05

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40057439

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
ABB S.p.A., Via Vittor Pisani 16, 20124 MILANO MI, ITALY

Aktenzeichen / *File ref.*

5004110-1720-0015 / 310846 / TL3 / GRA

letzte Änderung / *updated*

2023-10-05

Datum / *Date*

2023-09-26

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40057439.
This supplement is part of the Certificate No. 40057439.

**Fehlerstromschutzschalter ohne eingebauten
Überstromschutz,netzspannungsunabhängig (RCCB)**
***RCCB, residual current operated circuit-breaker without integral
overcurrent protection, functionally independent of line voltage***

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/*Reference*
30015642

ABB S.p.A.
DIVISIONE SACE
Via Ardeatina 2491
00134 SANTA PALOMBA RO
ITALY

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
ABB S.p.A., Via Vittor Pisani 16, 20124 MILANO MI, ITALY

Aktenzeichen / *File ref.*

5004110-1720-0015 / 310846 / TL3 / GRA

letzte Änderung / *updated*

2023-10-05

Datum / *Date*

2023-09-26

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40057439.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40057439.

Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.