



Ref. Certif. No.

FR_714517

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Moulded-case circuit-breaker

Name and address of the applicant

SCHNEIDER ELECTRIC INDUSTRIES SAS
35, rue Joseph Monier
92500 RUEIL-MALMAISON
FRANCE

Name and address of the manufacturer

SCHNEIDER ELECTRIC INDUSTRIES SAS
35, rue Joseph Monier
92500 RUEIL-MALMAISON
FRANCE

Name and address of the factory

Note: When more than one factory, please report on page 2

Additional Information on page 2

Ratings and principal characteristics

See Annex

Trademark / Brand (if any)



Customer's Testing Facility (CTF) Stage used

CTF2

Model / Type Ref.

ComPacT NSXm 63 types E,B,F,N,H : 16, 25, 32, 40, 50, 63A
ComPacT NSXm 160 types E,B,F,N,H : 80, 100, 125, 160A

Additional information (if necessary may also be reported on page 2)

Supersedes CBTC FR_712538 dated 25/10/2021. Update further to the evolution of the standard(s)

Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60947-1:2007 +A1:2010 +A2:2014
IEC 60947-2:2016 +A1:2019

As shown in the Test Report Ref. No. which forms part of this Certificate

169778-758205M1, 2111939007
145987-697864BU, 145987-697864BE

This CB Test Certificate is issued by the National Certification Body



LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
33 avenue du Général Leclerc
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S.A.S au capital de 15.745.984 €
RCS Nanterre B 408 363 174
33 avenue du Général Leclerc
F - 92266 FONTENAY AUX ROSES

Signature:
Julien Gauthier
Certification Officer

Date: 11/04/2022

IEC

IECEE

®

™

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FR_714517

ADDITIONAL INFORMATION

Name and address of the factories:

SCHNEIDER ELECTRIC INDUSTRIES POLSKA Sp z.o.o.
ul. MOSTOWA 19
32-332 BUKOWNO
POLAND

SCHNEIDER (BEIJING) LOW VOLTAGE Co., Ltd
No 2, Liang Shui He 2nd Street, beijing Economic Technological Development area
100176 BEIJING
CHINA

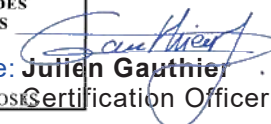


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ANNEX

REFERENCES, PRINCIPAL CHARACTERISTICS

Structure of products' references

Structure of model references

ComPacT NSXm 160 H
 (a) (b) (c)

(a): Product range: ComPacT NSXm

(b): Constructive breaks:

63: up to 63 A

160: up to 160 A

(c): Breaking capacity: E,B,F,N,H

Structure of commercial references

I, II, III, IV, V, VI according to the following designation

I	II	III	IV	V	VI
C11	H	3	TM	160	L

Type	Breaking capacity at 415Vac	Number of pole	Overcurrent release type	Rated Current	Connectors
C11: 16 to 100 A	E: 16 kA	3: 3P/3d	TM: Thermal-mag.	016: 16 A	L: EverLink
C12: 125 to 160 A	B: 25 kA	4: 4P/4d		025: 25 A	B: Compression lug
	F: 36 kA	6: 4P/3d		032: 32 A	
	N: 50 kA			040: 40 A	
	H: 70 kA			050: 50 A	
				063: 63 A	
				080: 80 A	
				100: 100 A	
				125: 125 A	
				160: 160 A	

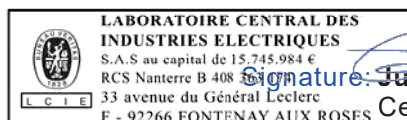
Characteristics

3. Classification	
3.1. Selectivity category: (A or B)	: A
3.2. Interruption medium: (air, vacuum, gas break)	: Air
3.3. Design: (open construction, moulded case)	: Moulded case
3.4. Method of controlling the operation mechanism: (dependent manual, independent manual, dependent power, independent power, stored energy operation)	: Independent manual
3.5. Suitability for isolation: (suitable, not suitable)	: Suitable
3.6. Provision for maintenance: (maintainable, non-maintainable)	: Non-maintainable
3.7. Method of installation: (fixed, plug-in, withdrawable)	: Fixed
3.8. Degree of protection of enclosure: (IP code)	: IP20 / IP40 (Long terminal shield)
4.7. Type of release (thermo-magnetic / electronic)	: Thermo-magnetic
7.3 Electromagnetic compatibility (EMC)	: A (Electronic shunt and undervoltage releases)
Environment A or B	: A (Electronic shunt and undervoltage releases)
Circuit-breaker for use in IT systems	: Yes



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ANNEX

Rated and limiting values, main circuit	
- rated operational voltage: U_e (V)	: 690
- rated insulation voltage: U_i (V)	: 800
- rated impulse withstand voltage: U_{imp} (kV)	: 8
- rated current: I_n (A)	: 16 to 160
- kind of current	: AC
- conventional free air thermal current: I_{th} (A)	: 160
- current rating for four-pole circuit-breakers: (A)	: 16 to 160
- number of poles	: 3 or 4
- rated frequency: (Hz)	: 50/60
Rated duty	
- uninterrupted duty: I_u (A)	: 16 to 160

Short-circuit characteristic																																											
rated short-time making capacity: I_{cm} (kA)	: N/A																																										
rated ultimate short-circuit breaking capacity: I_{cu} (kA)	: <table border="1" data-bbox="746 943 1362 1182"> <thead> <tr> <th>NSXm Type</th> <th>E</th> <th>B</th> <th>F</th> <th>N</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>220 /240V</td> <td>25</td> <td>50</td> <td>85</td> <td>90</td> <td>100</td> </tr> <tr> <td>380 /415V</td> <td>16</td> <td>25</td> <td>36</td> <td>50</td> <td>70</td> </tr> <tr> <td>440V</td> <td>10</td> <td>20</td> <td>35</td> <td>50</td> <td>65</td> </tr> <tr> <td>500V</td> <td>8</td> <td>10</td> <td>15</td> <td>25</td> <td>30</td> </tr> <tr> <td>525V</td> <td>/</td> <td>/</td> <td>10</td> <td>15</td> <td>22</td> </tr> <tr> <td>660 / 690V</td> <td>/</td> <td>/</td> <td>/</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>NSXm from 16 to 63A: all voltages NSXm from 80 to 160A: only 220/240V, 380/415V, 440V</p>	NSXm Type	E	B	F	N	H	220 /240V	25	50	85	90	100	380 /415V	16	25	36	50	70	440V	10	20	35	50	65	500V	8	10	15	25	30	525V	/	/	10	15	22	660 / 690V	/	/	/	10	10
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rated service short-circuit breaking capacity: I_{cs} (kA)	: <table border="1" data-bbox="746 1312 1362 1552"> <thead> <tr> <th>NSXm Type</th> <th>E</th> <th>B</th> <th>F</th> <th>N</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>220 /240V</td> <td>25</td> <td>50</td> <td>85</td> <td>90</td> <td>100</td> </tr> <tr> <td>380 /415V</td> <td>16</td> <td>25</td> <td>36</td> <td>50</td> <td>70</td> </tr> <tr> <td>440V</td> <td>10</td> <td>20</td> <td>30</td> <td>50</td> <td>65</td> </tr> <tr> <td>500V</td> <td>8</td> <td>10</td> <td>10</td> <td>25</td> <td>30</td> </tr> <tr> <td>525V</td> <td>/</td> <td>/</td> <td>10</td> <td>15</td> <td>22</td> </tr> <tr> <td>660 / 690V</td> <td>/</td> <td>/</td> <td>/</td> <td>2.5</td> <td>2.5</td> </tr> </tbody> </table> <p>NSXm from 16 to 63A: all voltages NSXm from 80 to 160A: only 220/240V, 380/415V, 440V</p>	NSXm Type	E	B	F	N	H	220 /240V	25	50	85	90	100	380 /415V	16	25	36	50	70	440V	10	20	30	50	65	500V	8	10	10	25	30	525V	/	/	10	15	22	660 / 690V	/	/	/	2.5	2.5
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660 / 690V	/	/	/	2.5	2.5																																						
rated short-time withstand current: I_{cw} (kA/s)	: N/A																																										



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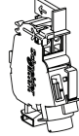


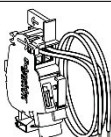
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ANNEX

Instantaneous tripping current	:	Fixed 500A for In=16A to 40A Fixed 600A for In=50A Fixed 800A for In=63A Fixed 1000A for In=80A Fixed 1250A for In=100A to 160A																														
Reference ambient calibration air temperature: (°C):	:	40																														
Pollution degree	:	3																														
Material group	:	IIIa																														
Safety distance (short-circuit tests)	:	Up/down: 30/5mm Left/right: 0mm Front/back: 0mm																														
Auxiliary circuits	:	OF/SD, OF, SD 1NO,1NC <table border="1" style="margin-left: 20px;"> <tr> <td rowspan="2">AC-15</td> <td>Ue (V)</td> <td>24</td> <td>48</td> <td>110/127</td> <td>220/240</td> <td>380/440</td> <td>660/690</td> </tr> <tr> <td>Ie (A)</td> <td>5</td> <td>5</td> <td>4</td> <td>3</td> <td>2.5</td> <td>0.11</td> </tr> <tr> <td rowspan="2">DC-13</td> <td>Ue (V)</td> <td>24</td> <td>48</td> <td>110</td> <td>250</td> <td></td> <td></td> </tr> <tr> <td>Ie (A)</td> <td>2.5</td> <td>1.2</td> <td>0.35</td> <td>0.05</td> <td></td> <td></td> </tr> </table>	AC-15	Ue (V)	24	48	110/127	220/240	380/440	660/690	Ie (A)	5	5	4	3	2.5	0.11	DC-13	Ue (V)	24	48	110	250			Ie (A)	2.5	1.2	0.35	0.05		
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DC-13	Ue (V)	24	48	110	250																											
	Ie (A)	2.5	1.2	0.35	0.05																											
Shunt release	:	MX																														
Undervoltage release	:	MN																														

References of MN and MX releases

Standard	Kind of voltage	Voltage	MX	MN
	AC	24 V 50/60 Hz	LV426841	LV426801
		48 V 50/60 Hz	LV426842	LV426802
		110...130 V 50/60 Hz	LV426843	LV426803
		220...240 V 50 Hz	LV426844	LV426804
		208...240 V 60 Hz	LV426844	LV426804
		277 V 60 Hz	LV426844	LV426805
		380...415 V 50 Hz	LV426846	LV426806
		440...480 V 60 Hz	LV426846	LV426807
	DC	24 V DC	LV426841	LV426801
		48 V DC	LV426842	LV426802
125 V DC		LV426843	LV426803	
250 V DC		LV426844	LV426815	

Pre-wired	Kind of voltage	Voltage	MX	MN
	AC	24 V 50/60 Hz	LV426861	LV426821
		48 V 50/60 Hz	LV426862	LV426822
		110...130 V 50/60 Hz	LV426863	LV426823
		220...240 V 50 Hz	LV426864	LV426824
		208...240 V 60 Hz	LV426864	LV426824
		277 V 60 Hz	LV426864	LV426825
		380...415 V 50 Hz	LV426866	LV426826
		440...480 V 60 Hz	LV426866	LV426827
	DC	24 V DC	LV426861	LV426821
		48 V DC	LV426862	LV426822
125 V DC		LV426863	LV426823	
250 V DC		LV426864	LV426835	



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