

Low Voltage Circuit Breaker 1 to 1600A



Compact NS 800 to 1600



Compact NSX 400/630



Easypact CVS 400/630



Easypact CVS 160/250



Easypact EZC 100



Compact NSX 100 /160/250



Acti 9

Life Is On

Schneider
Electric

DB400571



Country approval pictograms

IEC 61009-1,
IEC 61009-2-2,
BS EN 61009-1
AS/NZS 61009.1

PB11007570



■ The single-phase iC60H RCBO's self-contained residual current device carries out complete protection of final circuits:

- protection against short-circuits and cable overloads
- protection of persons against electric shock by direct contact (10, 30 mA sensitivities),
- protection of persons against electric shock by indirect contact (100 mA sensitivity),
- protection of equipment against fires set by leakage currents (100 mA sensitivity).

■ The neutral is not interrupted when the device is tripped. Hence iC60H RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icn) according to IEC 61009-1

Ph/N	Voltage (Ue)	
Rating (In)	110 V	240 V
6 to 45 A	10000 A	10000 A


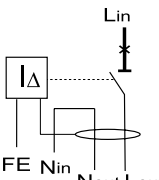
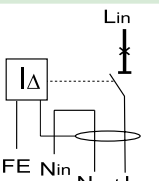
Accessories

Padlocking device

- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

Catalogue numbers

iC60H RCBO 10000

1P+N (2P)				A 			Width in 9-mm modules
B curve	Voltage rating (V)		Sensitivity (IΔn)	10 mA	30 mA	100 mA	
	240	Rating (In)	6 A	-	A9D31806	-	2
			10 A	-	A9D31810	-	
			16 A	-	A9D31816	-	
			20 A	-	A9D31820	-	
			25 A	-	A9D31825	-	
			32 A	-	A9D31832	-	
			40 A	-	A9D31840	-	
			45 A	-	A9D31845	-	
C curve	Voltage rating (V)		Sensitivity (IΔn)	10 mA	30 mA	100 mA	
	110	Rating (In)	10 A	-	A9D19810	-	2
			16 A	-	A9D19816	-	
			20 A	-	A9D19820	-	
			25 A	-	A9D19825	-	
			32 A	-	A9D19832	-	
	240	Rating (In)	6 A	A9D10806	A9D11806	A9D12806	
			10 A	A9D10810	A9D11810	A9D12810	
			16 A	A9D10816	A9D11816	A9D12816	
			20 A	A9D10820	A9D11820	A9D12820	
			25 A	A9D10825	A9D11825	A9D12825	
			32 A	A9D10832	A9D11832	A9D12832	
			40 A	A9D10840	A9D11840	A9D12840	
			45 A	A9D10845	A9D11845	A9D12845	
Operating frequency				50...60 Hz			
Auxiliaries				Remote tripping and indication, module CA907000 and CA907002			

Accessory

Type	
Padlocking device (bag of 10 pieces)	A9A27049

DB40571



Country approval pictograms

PB110076-70



IEC 61009-1,
IEC 61009-2-2,
AS/NZS 61009.1

- The 2-poles iC60H2 RCBO's self-contained residual current device carries out
- complete protection of final circuits:
 - protection against short-circuits and cable overloads,
 - protection of persons against electric shock by direct contact.
- iC60H2 RCBO switches neutral, together with phase. It is therefore suitable for all circuits, whatever the earthing system (except for TN-C).

Alternating current (AC) 50/60 Hz

Breaking capacity (Icn) according to IEC 61009-1

		Voltage (Ue)	
Ph/N, Ph/Ph		110 V	240 V
Rating (In)	10 to 32 A	10000 A	10000 A


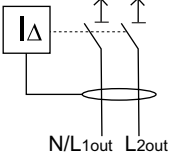
Accessory

Padlocking device

- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

Catalogue numbers

iC60H2 RCBO 10000

2P				A 	Width in 9-mm modules
C curve	Voltage rating (V)	Sensitivity (IΔn)		30 mA	
	110	Rating (In)	10 A	A9D19210	4
			16 A	A9D19216	
			20 A	A9D19220	
			25 A	A9D19225	
			32 A	A9D19232	
	240	Rating (In)	10 A	A9D11210	
			16 A	A9D11216	
			20 A	A9D11220	
			25 A	A9D11225	
			32 A	A9D11232	
Operating frequency				50...60 Hz	
Auxiliaries				Remote tripping and indication, module CA907000 and CA907002	

Accessory

Type	
Padlocking device (bag of 10 pieces)	A9A27049

Offer selection see page 1

offer A



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Selection table

-Acti 9


Selection guide

Circuit breakers

Type			iK60N		iC60N			
								
Standard			IEC/EN 60898-1		IEC/EN 60947-2, 60898-1			
Quality label			Country approval pictogram		Country approval pictogram			
Number of poles			1P	2, 3P	1P	2, 3P		
Add-on residual current devices (Vigi)			—		■			
Auxiliaries for remote tripping and indication			—		■			
Electrical characteristics								
Curves			C		C, D			
Ratings (A)		In	6 to 32		1 to 63 (1 to 63 in DC)			
Maximum operational voltage (V)	Ue	AC (50/60 Hz)	230/400		240/415, 440			
	max	DC	—		250			
Minimum operational voltage (V)	Ue	AC (50/60 Hz)	—		12			
	min	DC	—		12			
Insulation voltage (V AC)		Ui	400		500			
Rated impulse withstand voltage (kV)		Uimp	4		6			
Limitation class 40 A (EN 60898)			3		3			
Breaking capacity								
IEC/EN 60898 (A)		Icn	240/415 V - 230/400 V	6000	6000	6000	6000	
AC-Breaking capacity		Ue	(50/60 Hz)	1P	2, 3P	1P	2, 3P	
Ratings (A)		In	6 to 32		1 to 4 A	6 to 63 A	1 to 4 A	6 to 63 A
IEC 60947-2 (kA)	Icu	12...60 V	—	—	50	36	—	—
		12...133 V	—	—	—	—	50	36
		100...133 V	—	—	50	20	—	—
		220...240 V	—	—	50	10	50	20
		380...415 V	—	—	—	—	50	10
		440 V	—	—	—	—	25	6
	Ics	—		—		100 % of Icu	75 % of Icu	100 % of Icu
DC-Breaking capacity		Ue	DC					
IEC 60947-2 (kA)	Icu	12...60 V (1P)	—		15			
		≤ 72 V (1P)	—		10			
		≤ 125 V (2P)	—		10			
		≤ 180 V (3P)	—		10			
		≤ 250 V (4P)	—		10			
	Ics	—		100 % of Icu				
Other characteristics								
Suitable for industrial isolation according to IEC/EN 60947-2			—		■			
Reference temperature IEC/EN 60947-2			—		50°C			
Fault tripping indication			—		Visi-trip window			
Positive contact indication			—		■			
Fast closing			—		■			
Degree of protection	IP	Device only	IP20		IP20			
		Device in modular enclosure	IP40 Insulation class II		IP40 Insulation class II			
For more detail, see module			CA901006 and CA901007		CA901002			
Accessories			—		CA907000 and CA907001			
Auxiliaries			—		CA907000 and CA907002			
Add-on residual current devices (Vigi)			—		CA902005			

Selection guide (cont.)

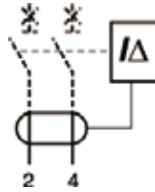
Circuit breakers

Type	C120N		
			
Standard	IEC/EN 60898-1		
Quality label	Country approval pictogram		
Number of poles			2, 3, 4P
Add-on residual current devices (Vigi)	■		
Auxiliaries for remote tripping and indication	■		
Electrical characteristics			
Curves	C		
Ratings (A)	In	63 to 125	
Maximum operational voltage (V)	Ue max	AC (50/60 Hz)	240/415, 440
		DC	125 per pole
Minimum operational voltage (V)	Ue min	AC (50/60 Hz)	12
		DC	12
Insulation voltage (V AC)	Ui	500	
Rated impulse withstand voltage (kV)	Uimp	6	
Breaking capacity			
IEC/EN 60898 (A)	Icn	230/400 V	10000
AC-Breaking capacity	Ue	(50/60 Hz)	2, 3, 4P
Ratings (A)	In	63 to 125	
IEC 60947-2 (kA)	Icu	110...130 V	–
		12...130 V	–
		220...240 V	20
		380...415 V	10
		440 V	6
		500 V	–
	Ics	75 % of Icu	
DC-Breaking capacity		Ue	DC
IEC 60947-2 (kA)	Icu	12...125 V (1P)	15
		≤ 144 V (1P)	10
		≤ 250 V (2P)	10
		≤ 375 V (3P)	10
		≤ 500 V (4P)	10
			Ics
Other characteristics			
Suitable for industrial isolation according to IEC/EN 60947-2		■	
Reference temperature IEC/EN 60947-2		50°C	
Fault tripping indication		–	
Positive contact indication		■	
Fast closing		■	
Degree of protection	IP	Device only	IP20
		Device in modular enclosure	IP40
For more detail, see module		CA901015	
Accessories		CA907012 and CA907013	
Auxiliaries		CA907008 and CA907013	
Earth leakage module (Vigi)		CA902016	

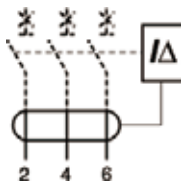
(1) Breaking capacity under 1 pole with IT isolated neutral system (case of double fault).

Vigi iC60 漏電保護模組

極數	額定電流 (A)	額定漏電動作電流 (mA)	使用電壓 (V)	產品編號
2P	25A	30mA	127/220V	A9V01225
		30mA	240/415V	A9V41225
	40A	30mA	240/415V	A9V41240
		300mA	240/415V	A9V44240
	63A	30mA	240/415V	A9V41263
		300mA	240/415V	A9V44263



3P	25A	30mA	240/415V	A9V41325
		30mA	240/415V	A9V41340
	40A	300mA	240/415V	A9V44340
		300mA	240/415V	A9V44363
	63A	30mA	240/415V	A9V41363
		300mA	240/415V	A9V44363



應用

保護線路漏電故障，並搭配 MCB 可達到過載及短路保護。

■ 30mA Vigi 模組可保護人員，防止直接接觸帶電體造成感電。

■ 300mA Vigi 模組可保護人員，防止間接接觸帶電體造成感電。

技術資料

■ Vigi iC60 漏電模組內含殘餘電流電磁機械動作方式，無須輔助電源。

□ Vigi iC60 漏電模組內含濾波裝置，可有效防止由於瞬間電壓變化。(照明或設備產生線路電壓波動...)和突波電流所引起的誤動作。

■ 額定電流：

□ Vigi iC60 漏電模組適用 63A 及 63A 以下的 iC60 系列斷路器

□ Vigi iC60 漏電模組(額定電流)選定可向下相容：
Ex. Vigi iC60 ≤ 40A 可直接搭配 Acti-9 iC60N MCB 40A 或 40A 以下。

■ 動作時間

□ 符合 IEC61008/61009

□ 跳脫時間 (Tripping time) 與漏電電流 (I_{Δn}) 關係如下：

I _{Δn}	Tripping Time
I _{Δn}	<300ms
2I _{Δn}	<150ms
5I _{Δn}	<40ms

■ 電擊防護等級 (Insulation Class) : 2 (雙重絕緣設計)

■ 重量 (g)

極數	2P	3P
	≤ 25A ≤ 63A	≤ 25A ≤ 63A
	145 165	184 210

■ 接線

□ 小於 25A：電纜最大可接至 25mm²

□ 小於 63A：電纜最大可接至 35mm²

組合示意圖

2P 斷路器

2P Vigi 模組




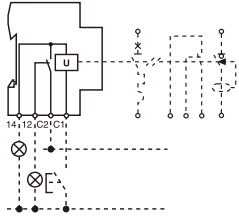
3P 斷路器


3P Vigi 模組


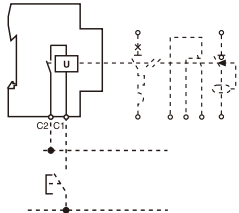


電氣輔助裝置


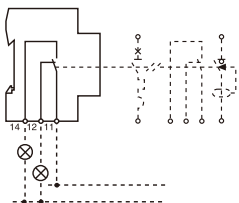
	寬度 (9mm 的倍數)	使用電壓 (V)	產品編號
iMX+OF (分路跳脫)	2	110~415V AC	A9A26946
		110~130V DC	
		48V AC/DC	A9A26947
		12/24V AC/DC	A9A26948


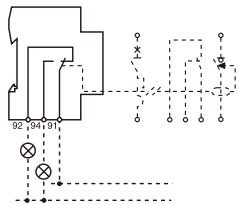
iMN(欠壓跳脫)	2	瞬時跳脫	A9A26960
		220~240V AC	
		48V AC/DC	A9A26961
		延時跳脫 	
		220~240V AC	A9A26963

iOF(輔助接點)	1	(NO-NC)	A9A26924
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iSD(警報接點)	1		A9A26927
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遙控跳脫

一個 iMX+OF 分路跳脫或 iMN 欠壓跳脫裝置可以安裝於斷路器的左側。詳見 Page 5。

■ iMX+OF 分路跳脫：

當得到信號後斷路器立即跳脫。

☐ 符合 IEC60947-1 標準

☐ 具有一個跳脫線圈

☐ 安裝了一個輔助接點 (端子 12 和 14)，可以指示斷路器 " 開啟 " 或 " 閉合 " 的位置。

■ iMN 欠壓跳脫：

當電壓下降至額定電源 70% 和 35% 之間時斷路器跳脫，當電壓未恢復至 85% 之額定電源時，斷路器無法再閉合。

☐ 符合 IEC60947-1 標準。

☐ 應用：

- 緊急停止按鈕。
- 可防止線路上的機器馬達在沒有接到控制信號情況下再次啟動。

■ iMN 欠壓跳脫的延時跳脫


最小有效延遲斷開時間：200ms

■ 電氣輔助裝置技術資料

☐ 接點啟斷容量：

電壓 (Vac 或 Vdc)	容量 (A)
380/415 Vac	3
220/240 Vac	6
130 Vdc	1
48 Vdc	2
24 Vdc	6

☐ 跳脫機構消耗能量：

電壓 (Vac 或 Vdc)	消耗 (W/VA)
iMN/iMN  240 Vac	3.3/3.4
48 Vac	1.6
48 Vdc	1.1

- iOF 輔助接點安裝在斷路器左側，斷路器的開啟／閉合狀態可以直接經由 iOF 輔助接點引出。

☐ 符合 IEC60947-5-1

- iSD 警報接點安裝在斷路器左側，斷路器的跳脫狀態可以直接經由 iSD 警報接點引出。

☐ 符合 IEC60947-5-1

■ 接線：

電纜最大可接至 2.5 mm²X1 條

電纜最大可接至 1.5 mm²X2 條

■ 電氣輔助裝置搭配 Acti-9 iC60N：

完整適用搭配於 Acti-9 iC60N MCB 產品

Selection table

-Easypact EZC

CPB100000



EZC100-1P.

CPB100001



EZC100-2P.

CPB100002



EZC100-3P.

Easypact EZC circuit breakers

Fixed version

Plug-in version

Number of poles

Rated current (A) **In** at 40 °C

Rated insulation voltage (V) **Ui**

Rated impulse withstand voltage (kV) **Uimp**

Rated operational voltage (V) **Ue** AC 50/60 Hz
DC

Electrical characteristics as per IEC 60947-2, EN 60947-2, JIS C8201-2-1

Ultimate breaking capacity (kA rms)	Icu	AC 50/60 Hz	110/130 V
			220/230/240 V
			380 V
			400/415 V
			440 V
		DC	550 V
			125 V (1P)
			250 V (2P in series)
Rated service breaking capacity (kA rms)	Ics	% Icu	110-400 V
			415-550 V

Suitability for isolation

Utilisation category

Pollution degree

Endurance (C-O cycles)

Mechanical

Electrical In/415 V

Electrical characteristics as per NEMA-AB1

Breaking capacity (kA rms)	HIC	AC 50/60 Hz	240 V
			277/480 V

Protection

Overload protection	Bimetal	
Instantaneous protection	Magnetic	Fixed (±20 %)

Auxiliaries

Indication contacts	Auxiliary switch	AX
	Alarm switch	AL
	Combined AX + AL	AXAL
Voltage releases	Shunt trip release	SHT
	Undervoltage release	UVR

Installation

Connection	Crimp lugs/bars	
Accessories	Box lugs for bare cables	
	Rotary handles	Direct Extended
	Terminal extensions	
	Spreaders	
	Phase barriers	
	Terminal shields	
	Padlocking system	
	DIN rail adaptor	

Dimension and weight

Dimensions (mm)	D x H
	W

Weight (kg)

	EYC100B	EYC100F	EYC100N	EYC100H	
	■	■	■	■	■
	■	■	■ ⁽⁴⁾	-	■ ⁽⁴⁾
	3	3	3	1	2-3
	15, 16, 20, 25, 30, 32, 40, 45, 50, 60	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100
	690	690	690	690	690
	6	6	6	6	6
	550	550	550	415	550
	-	250	250	125	250
	10	25	25	50	100
	10	25	25	25	100 ⁽¹⁾
	7.5	10	18	5	30
	7.5	10	15	5	30
	5	7.5	10	-	20
	2.5	5	5	-	10
	-	5	5	10	10
	-	5	5	-	10
	25 %	50 %	50 %	50 %	50 %
	25 %	50 %	50 %	50 %	25 %
	■	■	■	■	■
	A	A	A	A	A
	3	3	3	3	3
	8 500	8 500	8 500	8 500	8 500
	1 500	1 500	1 500	1 500	1 500
	-	-	25	18	100
	-	-	10	18 ⁽²⁾	18 ⁽³⁾
	fixed	fixed	fixed	fixed	fixed
	fixed	fixed	fixed	fixed	fixed
	■	■	■	-	■
	■	■	■	-	■
	■	■	■	-	■
	■	■	■	-	■
	■	■	■	-	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	-	■ ⁽³⁾
	■	■	■	-	■ ⁽³⁾
	-	-	-	-	-
	■	■	■	-	■
	■	■	■	■	■
	■	■	■	-	■ ⁽³⁾
	■	■	■	■	■
	■	■	■	■	■
	60 x 130	60 x 130	60 x 130	60 x 130	60 x 130
	75	75	75	25	50 (2P) 75 (3P)
	0.78	0.78	0.78	0.28	0.6 (2P) 0.78 (3P)

(1) 50 kA for 2 poles.
(2) For 277 V only.
(3) For 3 and 4 poles only.
(4) For 3P only.

Selection table

-Easypact CVS

PB106447



Easypact CVS160/250

PB106448



Easypact CVS400/630

PB103860-3/6.eps



Common characteristics

Rated voltages			
Insulation voltage (V)	Ui		690
Impulse withstand voltage (kV)	Uimp		8
Operational voltage (V)	Ue	AC 50/60 Hz	440
Suitability for isolation	IEC/EN 60947-2		yes
Utilisation category			A
Pollution degree	IEC 60664-1		3

Circuit breakers

Performance

Electrical characteristics as per IEC 60947-2

Rated current (A)	In	40 °C
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Number of poles

Breaking capacity levels

Breaking capacity (kA rms)			
	Icu	AC 50/60 Hz	220/240 V 380/415 V 440 V

Service breaking capacity (kA rms)			
	Ics	AC 50/60 Hz	220/240 V 380/415 V 440 V

Durability (C-O cycles)	Mechanical		
	Electrical	415V	In/2 In

Protection

Short-circuit protection	Magnetic only		
Overload/short-circuit protection	Thermal magnetic		
	Electronic		
	with neutral protection (Off-0.5-1)		
Earth-leakage protection	By Vigi module		

Installation/connections

Dimensions and weights

Dimensions (mm)	Fixed, front connections	3P 4P
W x H x D		
Weight (kg)	Fixed, front connections	3P 4P

Connections

Connection terminals	Pitch	Without/With spreaders
Large Cu or Al cables	Cross-section	mm ²

Vigi earth-leakage protection modules

Compliance with standards

- IEC 60947-2, annex B.
- Decree dated 14 November 1988 (for France).
- IEC 60755, class A, immunity to DC components up to 6 mA.
- Operation down to -25 °C as per VDE 664.

Remote indications

Vigi modules may be equipped with an auxiliary contact (SDV) to remotely signal tripping due to an earth fault.

Use of 4-pole Vigi module with a 3-pole Compact NSX

In a 3-phase installation with an uninterrupted neutral, an accessory makes it possible to use a 4-pole Vigi module with connection of the neutral cable.

Power supply

Vigi modules are self-supplied internally by the distribution-system voltage and therefore do not require any external source. They continue to function even when supplied by only two phases.

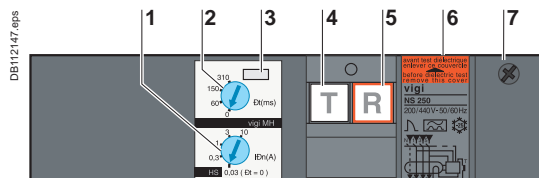
CVS160	CVS250	CVS400	CVS630
160	250	400	630
3, 4	3, 4	3, 4	3, 4
F	B F	F N	F N
70	40 70	40 70	40 70
36	25 36	36 50	36 50
36	20 36	30 42	30 42
70	40 70	40 70	40 70
36	25 36	36 50	36 50
18	15 18	23 32	23 32
25000	20000	15000	15000
25000	20000	12000	8000
12000	10000	6000	4000
■	■	■	■
■	■	■	■
-	-	■	■
-	-	■	■
■	■	■	■
105 x 161 x 86	105 x 161 x 86	140 x 255 x 110	140 x 255 x 110
140 x 161 x 86	140 x 161 x 86	185 x 255 x 110	185 x 255 x 110
1.8	2.0	4.7	5.2
2.3	2.6	6.3	7.1
35/45 mm	35/45 mm	45/52.5 mm	45/52.5 mm
		45/70 mm	45/70 mm
300	300	4 x 240	4 x 240

Vigi module selection

Type	Vigi ME	Vigi MH	Vigi MB
Number of poles	3, 4 ⁽¹⁾	3, 4 ⁽¹⁾	3, 4 ⁽¹⁾
NSX100	■	■	-
NSX160/CVS160	■	■	-
NSX250/CVS250	-	■	-
NSX400/CVS400	-	-	■
NSX630/CVS630	-	-	■

Protection characteristics			
Sensitivity	fixed	adjustable	adjustable
I _{Δn} (A)	0.3	0.03 - 0.3 - 1 - 3 - 10	0.3 - 1 - 3 - 10 - 30
Time delay	fixed	adjustable	adjustable
Intentional delay (ms)	< 40	0 - 60 ⁽²⁾ - 150 ⁽²⁾ - 310 ⁽²⁾	0 - 60 - 150 - 310
Max. break time (ms)	< 40	< 40 < 140 < 300 < 800	< 40 < 140 < 300 < 800
Rated voltage V AC 50/60 Hz	200...440	200... 440 - 440...550	200...440 - 440...550

- (1) Vigi 3P modules may also be used on 3P circuit breakers used for two-phase protection.
(2) If the sensitivity is set to 30 mA, there is no time delay, whatever the time-delay setting.



- 1 Sensitivity setting
2 Time-delay setting (for selective earth-leakage protection).
3 Lead-seal fixture for controlled access to settings.
4 Test button simulating an earth-fault for regular checks on the tripping function
5 Reset button (reset required after earth-fault tripping).
6 Rating plate
7 Housing for SDV auxiliary contact.

Selection table

-Compact NSX 100 to 630A

PB105112.eps



Compact NSX100/160/250.

Common characteristics

Rated voltages			
Insulation voltage (V)	Ui		800
Impulse withstand voltage (kV)	Uimp		8
Operational voltage (V)	Ue	AC 50/60 Hz	690
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3

Circuit breakers

Breaking capacity levels

Electrical characteristics as per IEC 60947-2

Rated current (A)	In	40 °C	
Number of poles			
Breaking capacity (kA rms)			
	Icu	AC 50/60 Hz	220/240 V 380/415 V 440 V 500 V 525 V 660/690 V
Service breaking capacity (kA rms)			
	Ics	AC 50/60 Hz	220/240 V 380/415 V 440 V 500 V 525 V 660/690 V
Durability (C-O cycles)			
		Mechanical	
		Electrical	440 V In/2 690 V In/2 In

Characteristics as per Nema AB1

Breaking capacity (kA rms)	AC 50/60 Hz	240 V 480 V 600 V
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Characteristics as per UL 508

Breaking capacity (kA rms)	AC 50/60 Hz	240 V 480 V 600 V
----------------------------	-------------	-------------------------

Protection and measurements

Short-circuit protection	Magnetic only
Overload / short-circuit protection	Thermal magnetic Electronic
	with neutral protection (Off-0.5-1-OSN) ⁽¹⁾
	with ground-fault protection
	with zone selective interlocking (ZSI) ⁽²⁾
Display / I, U, f, P, E, THD measurements / interrupted-current measurement	
Options	Power Meter display on door Operating assistance Counters Histories and alarms Metering Com Device status/control Com
Earth-leakage protection	By Vigi module ⁽³⁾ By Vigirex relay

Installation / connections

Dimensions and weights

Dimensions (mm) W x H x D	Fixed, front connections	2/3P 4P
Weight (kg)	Fixed, front connections	2/3P 4P

Connections

Connection terminals	Pitch	With/without spreaders
Large Cu or Al cables	Cross-section	mm²

⁽¹⁾ OSN: Over Sized Neutral protection for neutrals carrying high currents (e.g. 3rd harmonics).

⁽²⁾ ZSI: Zone Selective Interlocking using pilot wires.

⁽³⁾ Vigi module is not available for breaking capacity levels HB1/HB2.

⁽⁴⁾ There is no 160 A frame, use 250 A frame with lower amperage trip units for R, HB1, HB2.

Common characteristics

Control

Manual	With toggle	■
	With direct or extended rotary handle	■
Electrical	With remote control	■

Versions

Fixed		■
Withdrawable	Plug-in base	■
	Chassis	■

NSX100			NSX160			NSX250			NSX400			NSX630		
N	H	L	N	H	L	N	H	L	N	H	L	N	H	L
100			160			250			400			630		
2 ⁽⁵⁾ , 3, 4			2 ⁽⁵⁾ , 3, 4			2 ⁽⁵⁾ , 3, 4			3, 4			3, 4		
90	100	150	90	100	150	90	100	150	85	100	150	85	100	150
50	70	150	50	70	150	50	70	150	50	70	150	50	70	150
50	65	130	50	65	130	50	65	130	42	65	130	42	65	130
36	50	70	36	50	70	36	50	70	30	50	70	30	50	70
35	35	50	35	35	50	35	35	50	22	35	50	22	35	50
10	10	20	10	10	20	10	10	20	10	20	35	10	20	35
90	100	150	90	100	150	90	100	150	85	100	150	85	100	150
50	70	150	50	70	150	50	70	150	50	70	150	50	70	150
50	65	130	50	65	130	50	65	130	42	65	130	42	65	130
36	50	70	36	50	70	36	50	70	30	50	70	30	50	70
35	35	50	35	35	50	35	35	50	11	11	12	11	11	12
10	10	20	10	10	20	10	10	20	10	10	12	10	10	12
50000			40000			20000			15000			15000		
50000			40000			20000			12000			8000		
30000			20000			10000			6000			4000		
20000			15000			10000			6000			6000		
10000			7500			5000			3000			2000		
90	100	150	90	100	150	90	100	150	85	100	150	85	100	150
50	65	130	50	65	130	50	65	130	42	65	130	42	65	130
20	35	50	20	35	50	20	35	50	20	35	50	20	35	50
85	85	-	85	85	-	85	85	-	85	85	-	85	85	-
50	65	-	50	65	-	50	65	-	50	65	-	50	65	-
10	10	-	10	10	-	15	15	-	10	20	-	20	20	-
■			■			■			■			■		
■			■			■			-			-		
■			■			■			■			■		
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■			■			■			■			■		
■			■			■			■			■		
■			■			■			■			■		
■			■			■			■			■		
105 x 161 x 86			105 x 161 x 86			105 x 161 x 86			140 x 255 x 110			140 x 255 x 110		
140 x 161 x 86			140 x 161 x 86			140 x 161 x 86			185 x 255 x 110			185 x 255 x 110		
2.05			2.2			2.4			6.05			6.2		
2.4			2.6			2.8			7.90			8.13		
35/45 mm			35/45 mm			35/45 mm			45/52.5 mm	45/70 mm		45/52.5 mm	45/70 mm	
300			300			300			4 x 240			4 x 240		

Selection table

-Compact NS

PS1 04942.eps



Compact NS800L.

Compact circuit breakers

Number of poles				
Control	manual		toggle	
	electric		direct or extended rotary handle	
Type of circuit breaker				
Connections	fixed	front connection		
		rear connection		
		front connection with bare cables		
	withdrawable (on chassis)	front connection		
		rear connection		
Electrical characteristics as per Nema AB1				
Breaking capacity at 60 Hz (kA)		240 V		
		480 V		
		600 V		
Electrical characteristics as per IEC 60947-2 and EN 60947-2				
Rated current (A)		In	50 °C	
			65 °C (1)	
Rated insulation voltage (V)		Ui		
Rated impulse withstand voltage (kV)		Uimp		
Rated operational voltage (V)		Ue	AC 50/60 Hz	
Type of circuit breaker				
Ultimate breaking capacity (kA rms)	Manual	Icu	AC	220/240 V
			50/60 Hz	380/415 V
				440 V
		Ics	500/525 V	
			660/690 V	
				220/240 V
	Electrical	Icu	AC	380/415 V
			50/60 Hz	440 V
				500/525 V
		Ics	660/690 V	
				220/240 V
			380/415 V	
		Icu	440 V	
			500/525 V	
660/690 V				
Ics	AC	220/240 V		
	50/60 Hz	380/415 V		
		440 V		
Short-time withstand current (kA rms)	Icw	AC	500/525 V	
		50/60 Hz	660/690 V	
			1 s	
			3 s	
Integrated instantaneous protection			kA peak ±10 %	
Suitability for isolation				
Utilisation category				
Durability (C-O cycles)	mechanical			
	electrical		440 V	In/2
			690 V	In/2
				In
Pollution degree				

⁽¹⁾ 65 °C with vertical connections. See the temperature derating tables for other types of connections.

⁽²⁾ Ics: 100 % Icu for breaking capacity 440V/500V/660V
Ics: 75 % Icu for breaking capacity 220V/380V.

	NS800			NS1000			NS1250		NS1600		NS1600b	
	3, 4			3, 4			3, 4		3, 4		3, 4	
	■			■			■		■		■	
	■			■			■		■		-	
	■			■			■		■		-	
	N	H	L	N	H	L	N		N		N	
	■	■	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■	■	-	-
	■	■	-	■	■	-	■	■	-	-	-	-
	■	■	■	■	■	■	■	■	■	■	-	-
	■	■	■	■	■	■	■	■	■	■	-	-
	N	H	L	N	H	L	N		N		N	
	50	65	125	50	65	125	50	65	50	65	85	85
	35	50	100	35	50	100	35	50	35	50	65	65
	25	50	-	25	50	-	25	50	25	50	50	50
	800			1000			1250		1600		1600	
	800			1000			1250		1510		1550	
				800			800		800		800	
				8			8		8		8	
				690			690		690		690	
	N	H	L	N	H	L	N		N		N	
	85	85	150	85	85	150	85	85	85	85	85	125
	50	70	150	50	70	150	50	70	50	70	70	85
	50	65	130	50	65	130	50	65	50	65	65	85
	40	50	100	40	50	100	40	50	40	50	65	-
	30	42	-	30	42	-	30	42	30	42	65	-
	50	52	150	50	52	150	50	52	37	35	65	94
	50	52	150	50	52	150	50	52	37	35	65	64
	50	48	130	50	48	130	50	48	37	32	65	64
	40	37	100	40	37	100	40	37	30	25	65	-
	30	31	-	30	31	-	30	31	22	21	65	-
	50	70	150	50	70	150	50	70	50	70	-	-
	50	70	150	50	70	150	50	70	50	70	-	-
	50	65	130	50	65	130	50	65	50	65	-	-
	40	50	100	40	50	100	40	50	40	50	-	-
	30	42	-	30	42	-	30	42	30	42	-	-
	37	35	150	37	35	150	37	35	37	35	-	-
	37	35	150	37	35	150	37	35	37	35	-	-
	37	32	130	37	32	130	37	32	37	32	-	-
	30	25	100	30	25	100	30	25	30	25	-	-
	22	21	-	22	21	-	22	21	22	21	-	-
	19.2	19.2	-	19.2	19.2	-	19.2	19.2	19.2	19.2	-	-
	-	-	-	-	-	-	-	-	-	-	32	32
	40	40	-	40	40	-	40	40	40	40	130	130
	■	■	■	■	■	■	■	■	■	■	■	■
	B	B	A	B	B	A	B		B		B	
	10000			10000			10000		10000		5000	
	6000	6000	4000	6000	6000	4000	5000		5000		3000	
	5000	5000	3000	5000	5000	3000	4000		2000		2000	
	4000	4000	3000	4000	4000	3000	3000		2000		2000	
	2000	2000	2000	2000	2000	2000	2000		1000		1000	
	3			3			3		3		3	

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