

Add-on modules DX³

for 1.5 module/pole DX³ MCBs



Technical characteristics [see e-catalogue](#)

Conform to IEC 61009-1

- AC type : detect AC components faults
 - Hpi type **Hpi**: detect faults with AC and DC components, increased immunity to false tripping
- For mounting on the right-hand side of 1.5 module per pole DX³ MCBs

Pack	Cat.Nos	2-pole - 230 V~		
1	4 105 76 4 105 77	Hpi Type Hpi	Sensitivity (mA)	Nominal rating In (A)
			30 30	63 125
1	4 105 83 4 105 84	Hpi Type Hpi adjustable	from 300 to 1000	63
			from 300 to 1000	125
1	4 106 05 4 106 06 4 106 08 4 106 11 4 106 12	3-pole - 400 V~		
		Hpi Type Hpi	Sensitivity (mA)	Nominal rating In (A)
			30 30 300	63 125 63
		Hpi Type Hpi adjustable	from 300 to 1000	63
			from 300 to 1000	125
1	4 106 24 4 106 28 4 106 36 4 106 37 4 106 40 4 106 43 4 106 44	4-pole - 400 V~		
		AC Type	Sensitivity (mA)	Nominal rating In (A)
			30 300	125 125
		Hpi Type Hpi		
			30 30 300	63 125 63
		Hpi Type Hpi adjustable	from 300 to 1000	63
			from 300 to 1000	125
		4-pole 400 V~ - Metering		
		LCD display		
		For displaying active energy, instantaneous power and current per phase (A) consumption		
1	4 106 57 4 106 58	Hpi type Hpi with integrated energy meter	Sensitivity (mA)	Nominal rating (A)
			30 à 3000 30 à 3000	63 125
1	4 106 59	4-pole 400 V~ - Measurement	Sensitivity (mA)	Nominal rating (A)
			30 à 3000	125
				Number of modules
				7.5 7.5 3 6 6 6 6 7.5 7.5 7.5

Add-on modules DX³

Compatibility MCBs/add-on modules

Breaking capacity	Curve	Number of poles	Add-on module for 1 module/pole MCBS	Add-on module for 1.5 module/pole MCBS
6000 / 10 kA	B, C, D	2P, 3P, 4P	All range	-
10000 / 16 kA	B, C, D	2P, 3P, 4P	In ≤ 63 A	In ≥ 80 A
25 kA	B, C, Z	3P, 4P	In ≤ 25 A	In ≥ 32 A
		2P	In ≤ 32 A	In ≥ 40 A
	D	3P, 4P	In ≤ 10 A	In ≥ 12,5 A
		2P	In ≤ 25 A	In ≥ 32 A
36kA, 50 kA	B, C, D	2P, 3P, 4P	-	All range

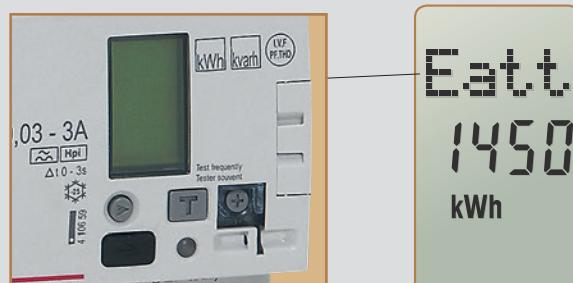
Adjustable add-on modules, Hpi type

Easy to access settings on front panel with sealable transparent cover
Sensitivity: 300, 500 and 1000 mA
Time delay: instantaneous, selective (60 ms) or delayed (150 ms)



Hpi add-on modules with integrated metering unit or measurement control unit

Conform to standards EN 61009-1, EN 60947-2 and 61557-12 (PMD/DD/K55)
Electronic settings on the front panel
Sensitivity: 30, 300, 1000, 3000 mA
Time delay: instantaneous, or delayed (300 ms, 1 s, 3 s)
For integration in the EMDX³ display and supervision system with interface Cat.No 4 210 75 (p. 85), to feed back information and the status of the remote MCB.
Precision: EN 61557-12 Class 1



For detailed dimensions, [see e-catalogue](#)



Performance of MCBs and auxiliaries

■ Breaking capacity in IT neutral earthing system

MCB single pole breaking capacity at 400 V according to IEC 60947-2

DX ³ 6000 10 kA	1P/2P/3P/4P	3 kA
DX ³ 10000 16 kA	1P/2P/3P/4P	4 kA
DX ³ 25 kA	1P/2P/3P/4P	6.25 kA
DX ³ 50 kA	1P/2P/3P/4P	12.5 kA

■ Breaking capacity in the event of short-circuit to earth and insulation voltage

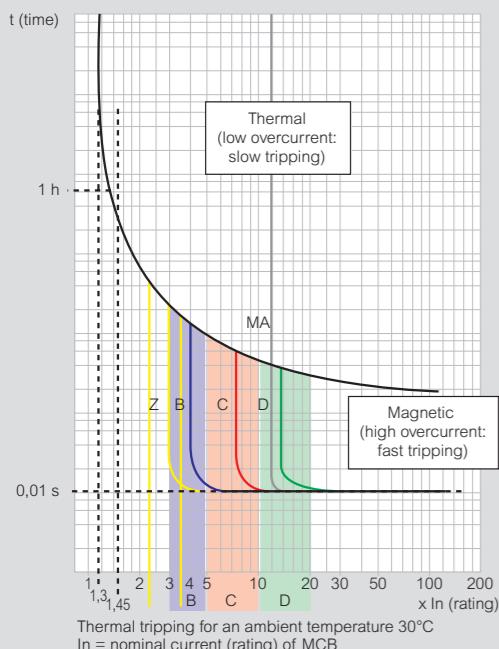
	1P/2P/3P/4P 230/400 V~ MCBs			
	DX ³ 6000 10 kA	DX ³ 10000 16 kA	DX ³ 25 kA	DX ³ 50 kA
Icn1	10000 A	16000 A	25000 A	50000 A
Ui	500 V	500 V	500 V	500 V

Icn1: Breaking capacity on 1 pole for multipole MCBs in the event of short-circuit to earth
Ui: Rated insulation voltage

■ Terminal connection cross-sections (mm²)

Copper cable	Rigid	Flexible
DX ³ 6000 10 kA	35	25
DX ³ 10000 16 kA	70	50
DX ³ 80 to 125 A	50	35
DX ³ 25 kA, DX ³ 32 A (C curve) DX ³ 50 kA and add-on modules	2.5	2.5
Auxiliaries	2.5	2.5

■ MCB tripping curves



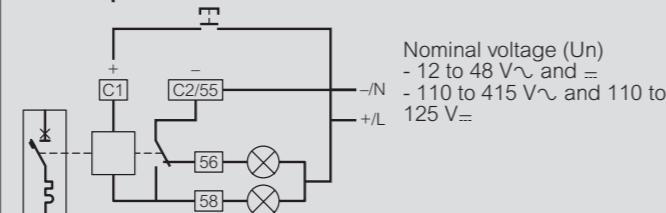
Curves	Magnetic threshold settings
Z ⁽¹⁾	2.4 to 3.6 In
B	3 to 5 In
C	5 to 10 In
D	10 to 14 In (10 to 20 acc. to the stds)
MA ⁽¹⁾	12 to 14 In

1: On request

■ Technical characteristics of auxiliaries

Max. connection cross-section: 2.5 mm²
Operating temperature: - 25°C to + 70°C

Shunt trips



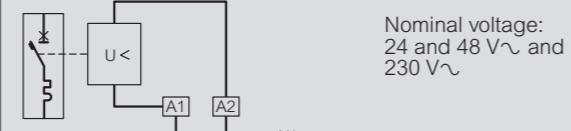
Nominal voltage (Un)
- 12 to 48 V~ and =
- 110 to 415 V~ and 110 to 125 V=

Equipped with a signalling contact which indicates tripping of the shunt trip and automatically breaks the coil.
Min. and max. voltage: 0.7 to 1.1 Un
Tripping time: less than 20 ms
Power consumption: at 1.1 x 48 V = 121 VA
at 1.1 x 415 V = 127 VA
Impedance: 12 to 48 V = 23 Ω
110 to 415 V = 1640 Ω

Consumption	Umin.	Umax.
12 to 48 V	522 mA	2610 mA
110 to 415 V	69 mA	259 mA

Undervoltage releases

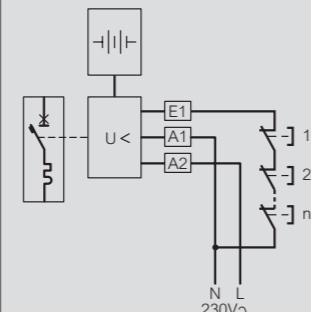
Pull-in voltage ≥ 0.55 Un
Tripping time: 100 to 400 ms ± 10% (adjustable)
Power consumption: 24 V~ and =: 0.1 VA
48 V~ and =: 0.2 VA
230 V~: 1 VA



Nominal voltage:
24 and 48 V~ and =
230 V~

Stand-alone releases for N/C push-buttons

Min. and max. operating voltage: 196 to 250 V~
Power consumption: 1.4 VA



Signalling auxiliaries

Umin.: 24 V~/= and Imin.: 5 mA

■ Compatibility between auxiliaries on 1 module/pole devices

1 module / pole device (auxiliary on the left side)	1st auxiliary	2nd auxiliary	3rd auxiliary
1st auxiliary	4 062.. 50/52/56/58/60/ 62/66/76/78/80/ 82/84/86/87	-	-
	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-	-
2nd auxiliary	4 062.. 64/66/	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-
	4 062.. 64/66/	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-
3rd auxiliary	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	4 062.. 64/66/	4 062.. 76/78/80/82/84/86/87
	4 062.. 64/66/	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-

■ Compatibility between auxiliaries on 1.5 module/pole devices

1.5 module / pole device (auxiliary on the left side)	1st auxiliary	2nd auxiliary	3rd auxiliary
1st auxiliary	4 062.. 50/52/56/58/60/ 62/66/76/78/80/ 82/84/86/87	-	-
	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-	-
2nd auxiliary	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-
	4 062.. 64/66/	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-
3rd auxiliary	4 062.. 64/66/	4 062.. 64/66/	4 062.. 76/78/80/82/84/86/87
	4 062.. 64/66/	4 062.. 50/52/56/58/60/62/64/ 66/76/78/80/82/84/86/87	-

■ Performance of add-on modules

AC type - Standard applications

Detection of 50-60 Hz AC residual currents

A type - Specific applications: dedicated lines

In addition to the characteristics of AC type add-on modules, A type add-on modules also detect residual currents with DC components. They are used whenever the fault currents are not sinusoidal. They are particularly suitable for the following dedicated line applications:

- On circuits where class 1 equipment may produce fault currents with DC components, such as variable speed drives with frequency inverter, etc.

Hpi type - Special applications

Hpi add-on modules, with additional immunity to false tripping, which is much higher than the level required by the standard, detect residual currents with AC and DC components (A type), operate between - 25°C and + 40°C, and are used in the following special cases:

- When loss of data would be detrimental, such as computer equipment power supply lines (banks, military instrumentation, airline reservation centres, etc.)
- When loss of operation would be detrimental (automated machines, medical instrumentation, freezer lines, etc.)
- In places where there is a high risk of lightning strikes
- On sites with lines subject to considerable interference (use of fluorescent lights, etc.)
- On sites with very long lines

Special case of continuity of service

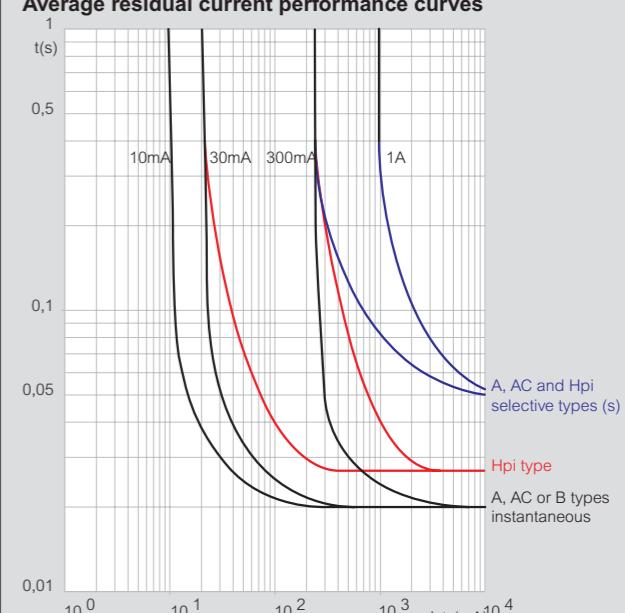
In certain locations where no staff are present and in which continuity of service is particularly important, false tripping of MCBs is not permitted (isolated telephone/TV or radio substations, pumping stations, etc.). Combining an Hpi RCBO with a motorised control and a STOP & GO recloser provides optimum continuity of service

B type

In addition to the characteristics of A type RCDs, B type RCDs also detect smooth DC residual currents

They are used whenever fault currents are not sinusoidal. They are particularly suitable for the following specific applications : speed drives and inverters for supplying motors for pumps, lifts, textile machines, machine tools, photovoltaic installations, call centres, medical equipment, etc.

Average residual current performance curves



Residual current breaking capacity of DX³ add-on modules

IΔm according to EN 61009-1
AC, A and Hpi add-on modules

DX ³ add-on modules used with an MCB	IΔm
DX ³ (1 mod./pole) 25 kA ≤ 25 A (B, C, Z curves) 25 kA ≤ 10 A (D, MA curves)	6000 A

Selectivity tables

MCBs/MCBs (in A)

Upstream MCB		RX³ [6000] / TX³ [6000] / TX³ [10000]								RX³ [4500] / RX³ [6000] / TX³ [6000] / TX³ [10000]								DX³ [6000] - 10 kA / DX³ [10000] - 16 kA								DX³ [6000] - 10 kA								C curve								DX³ 25 kA / DX³ 50 kA							
		B curve				D curve				C curve				D curve				C curve				D curve				C curve				D curve				C curve				D curve											
Downstream MCB	In (A)	32	40	50	63	32	40	50	63	80	100	125	32	40	50	63	32	40	50	63	80	100	125	32	40	50	63	80	100	125	32	40	50	63	80	100	125												
RX³ [4500] RX³ [6000] B & C curves	6	128	160	200	252	240	300	375	472	1300	1600	2000	384	480	600	756	240	300	375	472	1300	1600	2000	384	480	600	756	2000	2400	3000	2400	3000	2000	2400	3000	2400	3000	2000	2400	3000	2400	3000							
	10	128	160	200	252	240	300	375	472	1150	1450	1800	384	480	600	756	240	300	375	472	1150	1450	1800	384	480	600	756	1750	2150	2700	1750	2150	1750	2150	2700	1750	2150	1750	2150	1750	2150	1750	2150						
	13	128	160	200	252	240	300	375	472	1000	1300	1600	384	480	600	756	240	300	375	472	1000	1300	1600	384	480	600	756	1500	2000	2400	1500	2000	1500	2000	2400	1500	2000	1500	2000	1500	2000	1500	2000						
	16	128	160	200	252	240	300	375	472	950	1200	1500	384	480	600	756	240	300	375	472	950	1200	1500	384	480	600	756	1400	1800	2200	1400	1800	1400	1800	2200	1400	1800	1400	1800	1400	1800	1400	1800						
	20	160	200	252	240	300	375	472	900	1100	1400	384	480	600	756	240	300	375	472	900	1100	1400	384	480	600	756	1350	1650	2100	1350	1650	1350	1650	2100	1350	1650	1350	1650	1350	1650	1350	1650							
	25	-	200	252	240	300	375	472	850	1000	1300	384	480	600	756	240	300	375	472	850	1000	1300	384	480	600	756	1300	1500	2000	1300	1500	1300	1500	2000	1300	1500	1300	1500	1300	1500	1300	1500							
	32	-	-	252	240	300	375	472	750	950	1200	384	480	600	756	-	-	-	-	750	950	1200	384	480	600	756	1100	1450	1800	1100	1450	1100	1450	1800	1100	1450	1100	1450	1100	1450	1100	1450							
	40	-	-	-	-	-	-	-	-	-	-	384	480	600	756	-	-	-	-	700	850	1100	384	480	600	756	1000	1250	1650	1000	1250	1000	1250	1650	1000	1250	1000	1250	1000	1250	1000	1250							
TX³ [6000] TX³ [10000] B & C curves	50	-	-	-	-	-	-	-	-	-	-	384	480	600	756	-	-	-	-	650	800	1000	384	480	600	756	950	1200	1500	950	1200	950	1200	1500	950	1200	950	1200	950	1200	950	1200							
	63	-	-	-	-	-	-	-	-	-	-	384	480	600	756	-	-	-	-	650	800	1000	384	480	600	756	950	1200	1500	950	1200	950	1200	1500	950	1200	950	1200	950	1200	950	1200							
	≤ 6	128	160	200	252	240	300	375	472	1300	1600	2000	384	480	600	756	240	300	375	472	1300	1600	2000	384	480	600	756	2000	2400	3000	2000	2400	3000	2000	2400	3000	2000	2400	3000	2000	2400	3000	2000						
	10	128	160	200	252	240	300	375	472	1150	1450	1800	384	480	600	756	240	300	375	472	1150	1450	1800	384	480	600	756	1750	2150	2700	1750	2150	1750	2150	2700	1750	2150	1750	2150	1750	2150	1750	2150						
	13	128	160	200	252	240	300	375	472	1000	1300	1600	384	480	600	756	240	300	375	472	1000	1300	1600	384	480	600	756	1500	2000	2400	1500	2000	1500	2000	2400	1500	2000	1500	2000	1500	2000	1500	2000						
	16	128	160	200	252	240	300	375	472	950	1200	1500	384	480	600	756	240	300	375	472	950	1200	1500	384	480	600	756	1400	1800	2200	1400	1800	1400	1800	2200	1400	1800	1400	1800	1400	1800	1400	1800						
	20	160	200	252	240	300	375	472	900	1100	1400	384	480	600	756	240	300	375	472	900	1100	1400	384	480	600	756	1350	1650	2100	1350	1650	1350	1650	2100	1350	1650	1350	1650	1350	1650	1350	1650							
	25	-	20																																														

Back up between MCCBs and MCBs (in kA)

In 3 phases networks + N 400/415 V according to IEC 60947-2

MCBs/MCCBs upstream		DX³ 10000 16 kA B, C and D curves	DX³ 25 kA C and D curves	DX³ 50 kA C and D curves	DPX³ 160				DPX³ 250				DPX 250		DPX-H 250	DPX 630	DPX-H 630 DPX-L 630 - 100 kA	DPX 1250 and 1600 + DPX-H 1250 and 1600
MCBs downstream		10 to 125 A	10 to 125 A	10 to 63 A	16 kA 16 to 160 A	25 kA 16 to 160 A	36 kA 16 to 160 A	50 kA 16 to 160 A	25 kA 40 to 250 A	36 kA 40 to 250 A	50 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 250 to 630 A	70 kA 250 to 630 A	50 kA and 70 kA 630 to 1600 A	
DX³ [6000] - 10 kA B, C and D curves	≤ 20 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA										
	25 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	20 kA										
	32 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	15 kA										
	40 A	16 kA	25 kA	50 kA	16 kA	25 kA	20 kA	15 kA										
	50 A	16 kA	25 kA	50 kA	16 kA	25 kA	16 kA	16 kA	12,5 kA									
	63 A	16 kA	25 kA	-	16 kA	25 kA	20 kA	16 kA	12,5 kA									
DX³ [10000] - 16 kA B, C and D curves	≤ 20 A	-	25 kA	50 kA	-	25 kA	25 kA	25 kA										
	25 A	-	25 kA	50 kA	-	25 kA	25 kA	20 kA										
	32 A	-	25 kA	50 kA	-	25 kA	25 kA	16 kA										
	40 A	-	25 kA	50 kA	-	25 kA	20 kA	16 kA										
	50 A	-	25 kA	50 kA	-	25 kA	20 kA	20 kA	16 kA									
	63 A	-	25 kA	-	-	25 kA	20 kA	20 kA	16 kA									
	80 et 100 A	-	-	-	-	25 kA	20 kA	20 kA	16 kA									
	125 A	-	-	-	-	25 kA	16 kA	16 kA	16 kA									
DX³ 25 kA C curve	≤ 25 A	-	-	50 kA	-	-	36 kA	36 kA	-	36 kA	30 kA	30 kA	30 kA					
	32 to 50 A	-	-	50 kA	-	-	36 kA	36 kA	-	36 kA	36 kA	36 kA						
	63 to 80 A	-	-	-	-	-	36 kA	36 kA	-	36 kA	36 kA	36 kA						
	100 et 125 A	-	-	-	-	-	36 kA	36 kA	-	36 kA	30 kA	30 kA	30 kA					
DX³ 25 kA D curve	≤ 10 A	-	-	50 kA	-	-	36 kA	36 kA	-	36 kA	30 kA	30 kA	30 kA					
	16 to 63 A	-	-	50 kA	-	-	36 kA	36 kA	-	36 kA	36 kA	36 kA						
DX³ 50 kA C and D curves	10 to 63 A	-	-	-	-	-	-	-	-	-	-	-	70 kA	-	70 kA	-	70 kA	

In 3 phases networks + N 230/240 V according to IEC 60947-2

MCBs/MCCBs upstream		DX³ 10000 16 kA B, C and D curves		DX³ 25 kA C and D curves		DX³ 50 kA C curves		DX³ 50 kA D curves		DPX³ 160				DPX³ 250				DPX 250	DPX-H 250	DPX 630	DPX-H 630 DPX-L 630 - 100 kA	DPX 1250 and 1600 + DPX-H 1250 and 1600
MCBs downstream		≤ 32 A	40 to 125 A	≤ 32 A	40 to 125 A	≤ 32 A	40 to 63 A	≤ 32 A	40 to 63 A	16 kA 16 to 160 A	25 kA 16 to 160 A	36 kA 16 to 160 A	50 kA 16 to 160 A	25 kA 40 to 250 A	36 kA 40 to 250 A	50 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 250 to 630 A	70 kA 250 to 630 A	50 kA and 70 kA 630 to 1600 A
DX³ [6000] - 10 kA B, C and D curves	≤ 20 A	32 kA	25 kA	50 kA	25 kA	50 kA	50 kA	50 kA	50 kA	28 kA	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA					
	25 to 40 A	-	25 kA	-	25 kA	-	50 kA	-	50 kA	28 kA	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA					
	50 A	-	25 kA	-	25 kA	-	-	-	-	28 kA	40 kA	50 kA	50 kA	40 kA	50 kA	30 kA	25 kA					
	63 A	-	25 kA	-	25 kA	-	-	-	-	28 kA	40 kA	50 kA	50 kA	40 kA	50 kA	30 kA	25 kA					
DX³ [10000] - 16 kA B, C and D curves	≤ 20 A	-	-	50 kA	32 kA	70 kA	70 kA	70 kA	-	35 kA	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA					
	25 to 40 A	-	-	-	32 kA	-	70 kA	-	70 kA	35 kA	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA					
	50 et 63 A</																					

Protection of DC circuits

Protection of DC circuits

DX³ MCBs (1P/2P/3P/4P - In ≤ 63 A) designed for use in 230/400 V~ supplies, can also be used in DC circuits. In this case, the following deratings and precautions must be taken into account

1 - Protection against short-circuits

Max. magnetic tripping threshold: multiplied by 1.4

Example: For a C curve MCB for which the AC tripping threshold is between 5 and 10 In, the DC tripping threshold will be between 7 and 14 In

2 - Protection against overloads

The time/current thermal tripping curve is the same as for AC

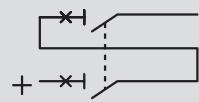
3 - Operating voltage

Min. operating voltage: 12 V_{dc}

Max. operating voltage: 60 V_{dc} for single-pole MCBs

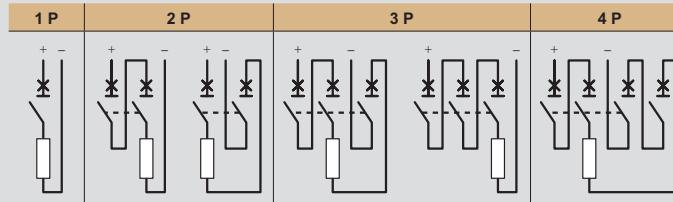
For voltages higher than this value, several poles must be wired in series as follows

Number of poles	1 P	2 P	3 P	4 P
Max. operating voltage (V)	60	110	150	180



Example: for a 110 V voltage, use a 2-pole MCB and connect the 2 poles in series

4 - Wiring modes



5 - Breaking capacity

According to IEC 60947.2		DC Voltage (V)	1P	2P	3P	4P
DX ³ 4500 / 6 kA B and C curves In ≤ 63 A	Icu	12 to 60	4.5 kA	4.5 kA	4.5 kA	4.5 kA
		110		4.5 kA	4.5 kA	4.5 kA
		150			4.5 kA	4.5 kA
		180				4.5 kA
	Ics ⁽¹⁾	12 to 60	100%	100%	100%	100%
		110		100%	100%	100%
		150			100%	100%
		180				100%
DX ³ 6000 / 10 kA B and C curves In ≤ 63 A	Icu	12 to 60	6 kA	6 kA	6 kA	6 kA
		110		6 kA	6 kA	6 kA
		150			6 kA	6 kA
		180				6 kA
	Ics ⁽¹⁾	12 to 60	100%	100%	100%	100%
		110		100%	100%	100%
		150			100%	100%
		180				100%
DX ³ 10000 / 16 kA B and C curves In ≤ 63 A	Icu	12 to 60	10 kA	10 kA	10 kA	10 kA
		110		10 kA	10 kA	10 kA
		150			10 kA	10 kA
		180				10 kA
	Ics ⁽¹⁾	12 to 60	100%	100%	100%	100%
		110		100%	100%	100%
		150			100%	100%
		180				100%
DX ³ 25 kA B and C curves In ≤ 25 A	Icu	12 to 60	16 kA	16 kA	16 kA	16 kA
		110		16 kA	16 kA	16 kA
		150			16 kA	16 kA
		180				16 kA
	Ics ⁽¹⁾	12 to 60	100%	100%	100%	100%
		110		100%	100%	100%
		150			100%	100%
		180				100%

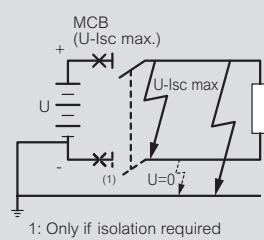
1: As a % of Icu

6 - Distribution of breaking poles

To choose the MCB and determine the pole distribution necessary for breaking on each of the polarities, it is necessary to know how the installation is earthed

• Supply with one polarity earthed:

Place all the poles necessary for breaking on the other polarity. If isolation is required, an additional pole must be added on the earthed polarity

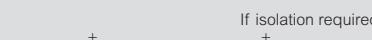


1: Only if isolation required

Example: circuit earthed via the negative polarity / U = 110 V_{dc} / Isc = 10 kA / In = 32 A

Protect the positive polarity using an MCB capable of breaking 10 kA at 110 V (DX³ 10000 2P 32 A with 2 poles on the positive polarity)
For isolation, use a DX³ 10000 3P 32 A with 2 poles on the positive polarity and one pole on the negative polarity

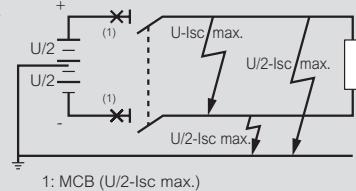
DX ³ 10000 / 16 kA	DC Voltage (V)	1P	2P	3P	4P
Acc. To IEC 60947.2	Icu	12 to 60	10 kA	10 kA	10 kA
		110		10 kA	10 kA
		150			10 kA
		180			10 kA



If isolation required

• Network earthed via a middle point:

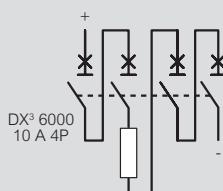
Place on each polarity the number of poles necessary for max. Isc breaking at half voltage



1: MCB (U/2-Isc max.)

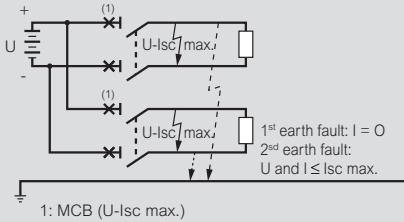
Example:
Circuit earthed via a middle point / U = 220 V_{dc} / Isc = 6 kA / In = 10 A
Protect each polarity using an MCB capable of breaking 6 kA at half voltage, i.e. 110 V (DX³ 6000 4P 10 A with 2 poles on each polarity)

DX ³ 6000 / 10 kA	DC Voltage (V)	1P	2P	3P	4P
Acc. To IEC 60947.2	Icu	12 to 60	6 kA	6 kA	6 kA
		110		6 kA	6 kA
		150			6 kA
		180			6 kA



• Isolated earth supply:

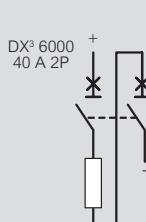
Distribute the poles necessary for breaking over the 2 polarities to provide protection in the event of a double earth fault (particularly if there are a number of circuits in parallel)



1: MCB (U-Isc max.)

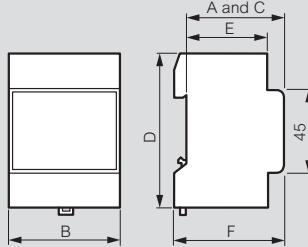
Example: isolated earth circuit / U = 48 V_{dc} / Isc = 6 kA / In = 40 A
Protect the installation with an MCB capable of breaking 6 kA at 48 V and protect each polarity (DX³ 6000 MCB 2P 40 A with one pole on each polarity)

DX ³ 6000 / 10 kA	DC Voltage (V)	1P	2P	3P	4P
Acc. To IEC 60947.2	Icu	12 to 60	6 kA	6 kA	6 kA
		110		6 kA	6 kA
		150			6 kA
		180			6 kA



Dimensions of din-rail equipment

Product	A	B				C	D	E	F	G
		1P	1P+N	2P	3P	4P				
RX³ MCBs	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8 88.9
RX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8 88.9
TX³ MCBs	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8 88.9
TX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8 88.9
Isolating switches DX³	71.7	17.8		17.8/ 35.4	35.6/ 53.1	35.6/ 70.8	61	83	44	77.8 94.8
Remote trip head isolating switches DX³ up to 63A - 1 mod/pole	71.7			35.4	53.1	70.8	61	83	44	77.9 94.8
Remote trip head isolating switches DX³ 100/125A - 1.5 mod/pole	73				80.1	106.8	61	96	47	79 104.3
DX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8 94.8
1P DX³ RCBOs (up to 45A)	68	17.7					60	115	48	74 126.8
1P+N DX³ RCBOs (up to 40A) & 4P (up to 32A)	71.7		35.6			71.2	61	83	44	77.8 94.8
2P & 4P DX³ RCBOs (40A to 63A)	72			71.2		124.6	61	96	44	78.2 107.8
1P+N DX³ MCBs 1 mod	71.7		17.8				61	83	44	77.8 94.8
DX³ MCBs - 1 mod/pole	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8 94.8
DX³ MCBs - 1.5 mod/pole	73.1	26.7		53.4	80.1	106.8	61	100	47	79 104.3
DX³ add-on modules up to 63A - 1 mod/pole	72			35.6	53.4	53.4	61	96	44	78.2 107.8
DX³ add-on modules up to 63A - 1.5 mod/pole	72			35.6	53.4	53.4	61	96	47	78.2 116.7
DX³ add-on modules 80 to 125A - 1.5 mod/pole	72			71.2	106.8	106.8	61	114	47	78.2 129
DX³ auxiliaries	71.5		8.8 / 17.7				61	83	44	77.7 84.5
DX³ remote control	74.3		17.7 / 35.4				61	83	44	80.5 98.8
DX³ Stop&Go automatic resetting	74.3		35.4				61	83	44	80.5 113.7
Change-over switches	68	17.7		35.6			60	83	44	74 94
CX³ latching relays	64	17.8		17.8	35.6	35.6	61	84.5	44	70.2 94.8
CX³ contactors up to 25A	66.3/ 61	17.8		17.8	35.6	35.6	61	84.5	44	72.6/ 67.3 94.8
CX³ contactors 40A & 63A	62			35.6	53.4	53.4	60	83	44	68 94
Auxiliaries for CX³ contactors and latching relays	61		9/17.8				61	84.5	44	67 84.5
Push-buttons / control switches	68		17.7				60	83	44	74 94
Indicators	68		17.7				60	83	44	69 94
Bells and buzzers	60		17.7				60	76	44	66 85
Light sensitive switches										
Cat.Nos 0 037 21, 4 126 23	60		35.6				60	85	37.5	66 70
Socket outlets	60		44.5				60	83	44	66 92
Time delay relays	60		17.7				60	83	44	66 94
Remote control dimmers										
Cat.No 0 036 58	60		36				60	83	44	66 94
Cat.No 0 036 60	60		72				60	83	44	66 94
Cat.No 0 036 71	60		108				60	83	44	66 94



Description	A	B	C	D	E	F	
Programmable time switches	0 037 05	60	17.8	60	83	44	66
4 127 80/90/94	60	17.8	60	83	44	66	
4 127 95, 4 128 12/13	60	53	60	83	44	66	
4 126 31/33/41	60	35.6	60	83	44	66	
4 126 54/57	60	35.6	60	83	44	66	
0 047 70	60	90	60	83	44	66	
Transformers and power supplies							
0 042 10/30/31	60	72	60	83	44	66	
4 130 91	60	35.8	60	83.5	44	66	
4 130 92/93/96	60	71.5	60	83.5	44	66	
4 130 98	60	89	60	94	44	66	
0 047 91/92	60	105	60	95	44	66	
4 131 05/06/07/08	60	89	60	95	44	66	
0 047 93	60	70	60	95	44	66	
Residual current relay							
0 260 88	60	35.5	60	89	44	66	

RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59



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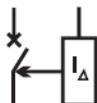
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1. DESCRIPTION - USE

RCD add-on modules with metering/measuring unit for MCBs. DX³ ≤125A, 1,5 modules per pole width, breaking capacity 10000A/16kA, 25kA, 36kA or 50kA.

They protect people against direct and indirect electric shocks and installations against insulation faults. They enable, in addition, the measurement of the main electrical quantities (depending on the version: voltage, current, residual current, power, energy, frequency, power factor, THD, the history of causes of recent trips).

Symbol:



Technology:

. Electronic residual current operating.

2. RANGE

Number of poles:

. 4 poles.

Width:

. Four poles – 7,5 modules (7,5 x 17,8 mm = 133,5 mm).

Rated Currents, In:

. In 63A (cat. no 4 106 57):
. In 125 A (cat. nos 4 106 58 / 59) :

Type:

. A-Hpi: sinusoidal AC fault currents with or without DC component and immunity against unwanted tripping (Hpi type are also A types).

Sensitivities and Tripping time:

. 30 mA instantaneous.
. Adjustable sensitivity: 300mA, 1A or 3A with instantaneous or delayed tripping of 300ms, 1s or 3s.

2. RANGE (continued)

Features:

. Basic functions common to all devices:
Remote report of the data

. Specific functions of the add-on module with metering unit (cat. N° 4 106 57 / 58):

Currents L1 L2 L3 N (in A)
Residual current (in mA or A)
Instantaneous total active power L1 L2 L3 (in W or kW)
Total energy consumption (in kWh)

. Specific functions of the add-on module with measuring unit (cat. N° 4 106 59):

Currents L1 L2 L3 N (in A)
Residual current (in mA or A)
Voltages
Powers
Energies
Frequency
THD
Power factor ($\cos \phi$)
Cause of last trip

Rated Voltage / Frequency:

. 230 / 400 V~, 50 Hz standard tolerances.
. 240 / 415 V~, 50 Hz standard tolerances.

Maximum operating voltage:

. 440 V ~, 50 Hz with standard tolerances.

Minimum operating voltage:

. 170 V ~, 50 Hz with standard tolerances.

RCD add-on module DX³ 63A - 125A with metering/measuring unit

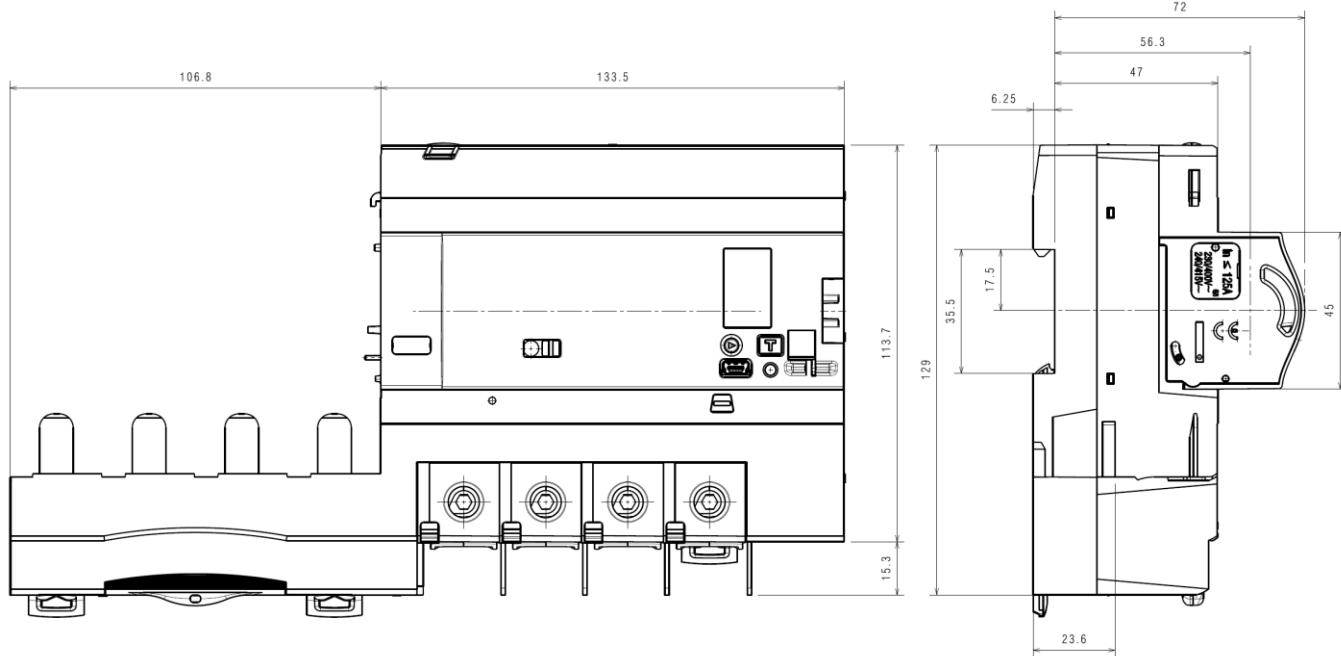
Cat.Nos: 4 106 57 to 4 106 59

2. RANGE (continued)

Compatibility with MCBs DX³:

	Breaking Capacity	Curve	4 106 57	4 106 58	4 106 59
DX ³	10000A / 16kA	B, C, D	--	80A ≤ In ≤ 125A	80A ≤ In ≤ 125A
	25kA	B, C,	32A ≤ In ≤ 63A	32A ≤ In ≤ 125A	32A ≤ In ≤ 125A
	25kA	D, MA	12,5A ≤ In ≤ 63A	12,5A ≤ In ≤ 125A	12,5A ≤ In ≤ 125A
	36kA	C	10A ≤ In ≤ 63A	10A ≤ In ≤ 80A	10A ≤ In ≤ 80A
	50kA	B, C, D, MA	10A ≤ In ≤ 63A	10A ≤ In ≤ 63A	10A ≤ In ≤ 63A

3. OVERALL DIMENSIONS



RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

4. FIXING - CONNECTION

Assembling:

. On the right side of the MCBs. DX³ ≤125A, 1.5 modules per pole width, breaking capacity 10000A/16kA, 25kA, 36kA or 50kA.. Associated to the circuit breaker by plastic clamps and tightening of connections in the downstream terminals of the MCB. Can be mounted on the right of the MCBs 1.5 modules per pole up to 63A breaking capacity 16kA, 25 kA and 50 kA, in this case the rated current of the add-on module is 63 A.

Mounting:

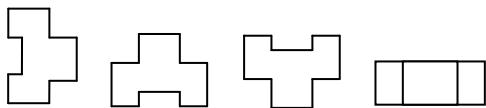
. On symmetrical IEC/EN 60715 rail or DIN 35 rail.

Power supply:

. From the top through the associated MCB or from the bottom directly on the add-on module.

Operating position:

. Vertical Horizontal Upside down On the side



Screw terminals:

- . Terminals protected against accidental contact (IP20).
- . The screw terminals are separated by built-in shields.
- . Cage terminals, with release and captive screw
- . Add-on module In 63A:
Terminal depth: 19 mm.
Stripping length : 17 mm
Screw head: mixed, slotted and Pozidriv n°2.
Recommended tightening torque: 3 Nm.
- . Add-on module In 125A:
Terminal depth: 19 mm.
Stripping length : 17 mm
Screw head: Allen screw 4 mm.
Recommended tightening torque: 5,5 Nm.

Connectable section:

63A

. In the power terminals

	Copper cable	
	Without ferrule	With ferrule
Rigid cable	1 x 50 mm ²	-
Flexible cable	1 x 35 mm ²	1 x 35 mm ²

125A

. In the power terminals

	Copper cable	
	Without ferrule	With ferrule
Rigid cable	1 x 70 mm ²	-
Flexible cable	1 x 50 mm ²	1 x 50 mm ²

4. FIXING - CONNECTION (continued)

125A

In the automatic terminals

	Copper cable	
	Without ferrule	With ferrule
Rigid cable	0,75 mm ² + 2,5 mm ²	-
Flexible cable	0,75 mm ² + 2,5 mm ²	0,75 mm ² + 1,5 mm ²

Recommended tools:

- . For fixing on the DIN rail: flat screwdriver 5.5 mm (from 4 to 6 mm).
- . For the terminals 63A: Pozidriv n°2 screwdriver or flat screwdriver 5,5 mm (6,5 mm maxi).
- . For the terminals 125A: Allen wrench 4 mm.

Manual actuation of the add-on module:

- . By the 2-positions ergonomic handle of the associated MCB.
 - I / ON : Closed circuit.
 - O / OFF : Open circuit.

Contacts status display:

- . By marking of the associated MCB. handle:
 - "O-Off" white on a green background = contacts opened.
 - "I-On" white on a red background = contacts closed.

Report of the contacts position:

- . The MCB contacts position is available through the communication. Possible positions : Closed / Open / Manual or on short-circuit trip / trip caused by a residual current fault

Display of fault trip caused by a residual current:

- . Yellow mechanical signaller into the window on front-side marking zone.

Signalling the state of the device:

- . Signalling by bi colour LED:
 - Green fixed: normal operation.
 - Green flashing: settings in progress.
 - Red fixed: value of the residual current ($I\Delta$) exceeds 45% of the set value.
 - Red flashing: value of the residual current ($I\Delta$) exceeds 60% of the set value.
 - Red / Green alternate flashing: Self-protection due to overheating.

Labelling:

- . Circuit identification by insertion of a label in the label holder of the associated MCB.

Battery type:

- . Lithium CR1616. Qty:2

Battery voltage:

- . 3 V d.c.

Battery current:

- . 50 mAh.

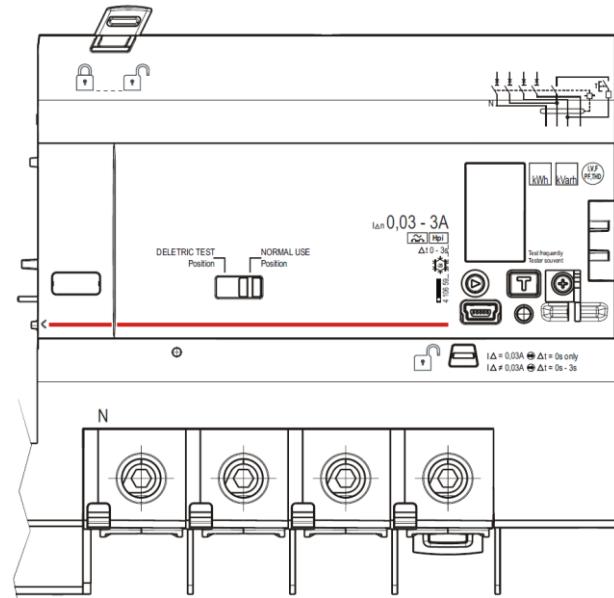
RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

5. GENERAL CHARACTERISTICS

Front face marking:

- By permanent ink pad printing.



"Test" key operating voltages:

U min	170 V ~
U max	440 V ~

Residual breaking capacity |Δm|:

- In accordance with standard IEC/EN 61009-1 and IEC/EN 60947-2 (|Δm|: short-circuit to ground)
- |Δm| = 60% of Icu of the associated MCB.

Neutral system:

- IT – TT – TN.

Insulation rated voltage:

- Ui = 500 V according to IEC/EN 61009-1 and IEC/EN 60947-2.

Pollution degree:

- 3.

Dielectric strength:

- 2500 V.

Impulse-withstand rated voltage:

- Uimp = 6 kV (wave 1.2 / 50 μs).

Operation at different frequencies respect to the nominal frequency:

- The only operating frequency is the nominal frequency.

5. GENERAL CHARACTERISTICS (continued)

Protection against unwanted tripping:

- Damped recurrent wave – 0.5 μs/100kHz : 200A for all sensitivity.
- Wavw 8/20 μs:

Sensitivity	30 mA	300 mA	1 A	3 A
Corrent	3000 A	5000 A	5000 A	5000 A

Protection class:

- Protection index of terminals against solid and liquid bodies (wired device): IP 20 (in accordance with standards IEC/EN 60529 and NF C 20-010).
- Protection index of the front face against direct contacts: IP 40 (in accordance with standards IEC/EN 60529 and NF C 20-010).
- Class II compared to conductive parts.
- Protection index against mechanical shocks: IK 01 (accordance with standards IEC / EN 50102 et NF C 20-015).

Mechanical and electrical endurance (associated to a MCB)

- 20000 operations without load
- 10000 operations with load.
- 1000 tripping operations by the Test key.
- 1000 tripping operations for fault residual current.

Power dissipated and impedance per pole at In:

In≤63A

Four-Pole		
In	Z(mΩ)	P(W)
6	0.55	0.02
10	0.55	0.06
16	0.55	0.14
20	0.55	0.22
25	0.55	0.34
32	0.55	0.56
40	0.55	0.88
50	0.55	1.38
63	0.55	2.18

In≤125A

Four-Pole		
In	Z(mΩ)	P(W)
80 A	0.245	1.57
100 A	0.245	2.45
125 A	0.245	3.83

Note: to obtain total power dissipated by the assembly Add-on module + MCB, these powers should be added to those of the associated MCB.

RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

5. GENERAL CHARACTERISTICS (continued)

Consumption:

- . Max. 1 VA.

Plastics:

- . Polycarbonate parts.

Resistance to abnormal heat and to fire:

- . Fire retardant and self-extinguishing materials.
- . Heat and fire resistant according to EN 61009, glow-wire test at 960°C for external parts made of insulating material necessary to retain in position current-carrying parts and parts of protective circuit (650°C for all other external parts made of insulating material).

Calorific value:

	Four-pole
MJ	8,53

Volume and quantity when packed:

- . Four poles 4,6 dm³ per device.

Average weight per device:

- . Four pole 63A: 0,7 kg
- . Four pole 125A: 1 kg

Ambient operating temperature:

- . Min. = -25°C. Max. = +60°C

Ambient storage temperature:

- . Min. = -40°C. Max. = +70°C

Specific use:

- . Appropriate to be used in humid environment and polluted by chlorine (pool-type)

Derating according ambient temperature:

- . Reference temperature: 40 °C in accordance with standard IEC/EN 60947-2.
- . No derating of the add-on module depending on the ambient temperature between - 25 ° C and +40 ° C.
- . Derating between + 40 ° C to + 76 ° C :

Temperature	40 °C	50 °C	60 °C
% of In	100 %	95 %	90 %

Resistance to sinusoidal vibrations:

- . According to IEC 60068-2-35.
- . Axis : x, y, z.
- . Frequency range: 5÷100 Hz ; duration 90 minutes
- . Displacement (5÷13,2 Hz) : 1mm.
- . Acceleration (13,2÷100 Hz) : 0,7g (g=9,81 m/s²)

5. GENERAL CHARACTERISTICS (continued)

Influence of the altitude :

	2000 m	3000 m	4000 m	5000 m
Dielectric strength	3000 V	2500 V	2000 V	1500 V
Max operating voltage	400 V	400 V	400 V	400 V
Derating at 40°C	none	none	none	none

Measured quantities and measurement accuracy class:

- . Currents (accuracy class 1) :
 - phase: I₁, I₂, I₃ ;
 - neutral: I_N.
- . Voltage (accuracy class 0,5) :
 - phase/phase: U₁₂, U₂₃, U₃₁ ;
 - phase/neutral: V_{1N}, V_{2N}, V_{3N}.
- . Frequency (accuracy 0,1%)
- . Power:
 - instantaneous total active power;
 - instantaneous total reactive power.
- . Power factor (cos φ).
- . Energy :
 - total active energy, positive and negative (accuracy class 1);
 - total reactive energy, positive and negative (accuracy class 2).
- . THD :
 - THD of Voltages: V₁, V₂, V₃;
 - THD of currents: I₁, I₂, I₃, I_N.

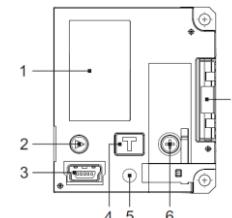
Historical:

- . Historical of causes of recent trips :
 - trip due to residual current fault (value of the residual current)
 - overheating (temperature value)
 - trip by test key

Display card:

- . The display is the user interface. It consist of:

1. Backlight LCD display;
2. Navigation key;
3. USB Port;
4. RCD Test key;
5. Bi-colour LED;
6. Setting key;
7. Battery compartment



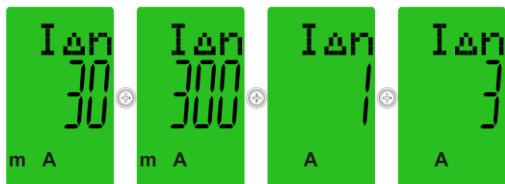
RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

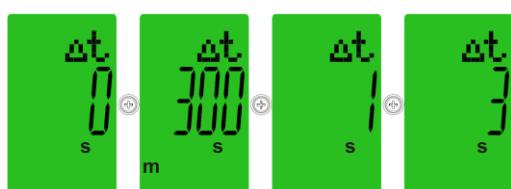
5. GENERAL CHARACTERISTICS (continued)

Programming pages:

- The settings are implemented by pressing the key .
- The adjustable parameters are the values of the residual current and the tripping time:
Rated residual current (possible settings 30mA, 300mA, 1A, 3A):



Tripping time (possible settings 0s, 300ms, 1s, 3s):



Display pages:

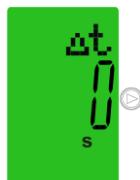
- The display of the pages is realised via the navigation button ;
(According to the version "metering unit" or "measuring unit" some pages are not available).

Display of set parameters:

Rated residual current (set value)



Tripping time (set value)



5. GENERAL CHARACTERISTICS (continued)

Display pages - Measured quantities:

- Display of measured quantities:
Current (phases / neutral / residual current)



Phase Voltages



Power (active and reactive) and Power Factor



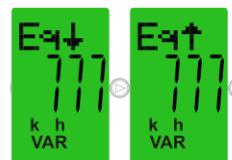
Frequency



Active energy (positive and negative)



Reactive energy (positive and negative)



THD of the Phase Voltages



THD of Currents (phase and neutral)



RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

5. GENERAL CHARACTERISTICS (continued)

Display pages - Measured quantities (continued):

- . Historical of causes of recent trips :
- no tripping
- trip due to residual current fault (value of the residual current)
- trip by test key
- overheating (temperature value)

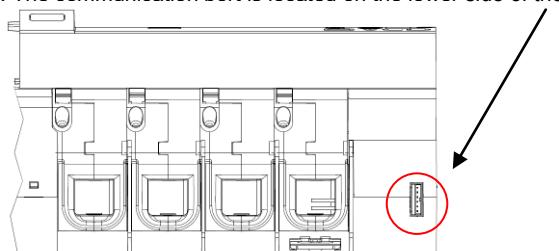


- . Exhausted batteries (the symbol appears on all pages):



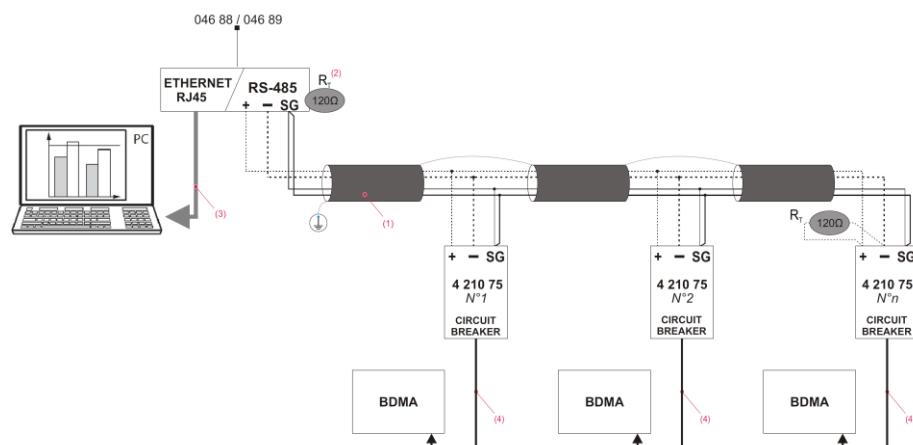
Integration of the add-on module in the remote display and monitoring system:

- . The communication port is located on the lower side of the device.



The port enables the integration of the device in the monitoring system via the RS485 communication interface (ref 4 210 75) and the Gateway RS485/IP.

Wiring diagram:



(1)RS485:

Prescribed use of Cable Belden 9842 (or equivalent) for a maximum bus length of 1000m or category 6 Cable (FTP or UTP) for a maximum length of 50m;

(2)Termination Resistor RT integrated.

(3)Ethernet:

Category 6 Cable (FTP or UTP).

(4)Cable supplied with the module 4 210 75.

RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

6. COMPLIANCE AND APPROVALS

In accordance with standards:

- . IEC/EN 61009-1.
- . IEC/EN 60947-2.
- . IEC 60051
- . IEC 61557-12.
- . IEC 62053
- . Compliance with Directives 2014/35/UE (LVC), subsequent modifications and additions.
- . Compliance with Directives 2014/30/UE (EMC), subsequent modifications and additions.

Environment respect – Compliance with CEE directives:

- . Compliance with Directive 2011/65/UE called "RoHS" provides the banishment of hazardous substances, subsequent modifications and additions.
- . Compliance with Directives 91/338/CEE of 18/06/91 and decree 94-647, subsequent modifications and additions.

Plastic materials :

- . Halogen-free plastic materials.
- . Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

- . Design and manufacture of packaging in accordance with decree 98-638 and Directive 94/62/EC, subsequent modifications and additions.

Compliance with IEC 61557-12

PMD Characteristics		
Type of characteristic	Specification values	Other complementary characteristics
Power quality assessment function	-	-
Classification of PMD	DD	-
Temperature	K55	-
Humidity + Altitude	Conditions standards	-
Active power or active energy function performance class	1	-

**RCD add-on module DX³ 63A - 125A
with metering/measuring unit**

Cat.Nos: 4 106 57 to 4 106 59

6. COMPLIANCE AND APPROVALS (continued)

Compliance with IEC 61557-12

Symbol for functions	Measurement range	Function performance class according to IEC 61557-12	Other complementary characteristics
	63 A 125 A		63 A 125 A
P	0,0125...75 kW 0,025...150 kW	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
Q _A , Q _V	0,0125...75 kvar 0,025...150 kvar	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
S _A , S _V	-	-	-
E _a	0...9999 MWh	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
E _{rA} , E _{rV}	0...9999 Mvarh	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
E _{apA} , E _{apV}	-	-	-
f	45...65 Hz	0.1	-
I	1,25...75 A 2,5...150 A	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
I _N , I _{NC}	1,25...75 A 2,5...150 A	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
U	88...550 V	0.5	-
P _{FA} , P _{FV}	-	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A UN=400 V, fN=50 Hz
P _{st} , P _{lt}	-	-	-
U _{dip}	-	-	-
U _{swl}	-	-	-
U _{tr}	-	-	-
U _{int}	-	-	-
U _{nba}	-	-	-
U _{nb}	-	-	-
U _h	-	-	-
THD _u	-	-	-
THD-R _u	88...550 V	0.5	-
I _h	-	-	-
THD _i	1,25...75 A 2,5...150 A	1	Ib=20 A, Imax=75 A Ib=40 A, Imax=150 A
THD-R _i	-	-	-
M _{sv}	-	-	-

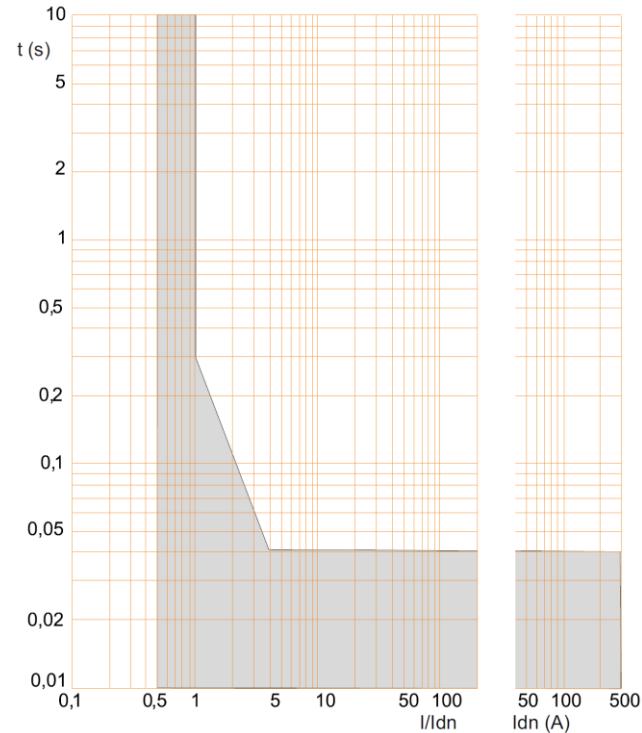
RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

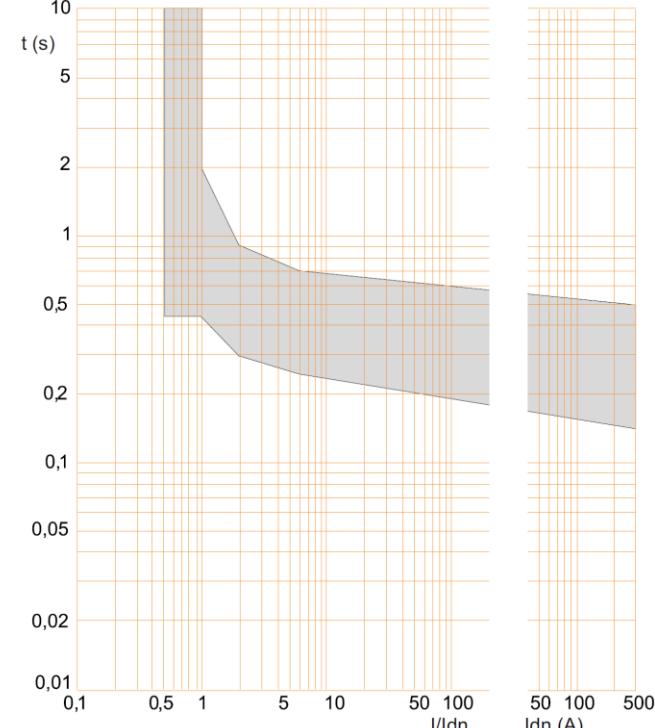
7. CURVES

Residual current operating characteristic

- Average tripping time depending on the intensity of the fault current.
- Sensitivities 30mA, 300mA, 1000mA and 3000mA instantaneous.

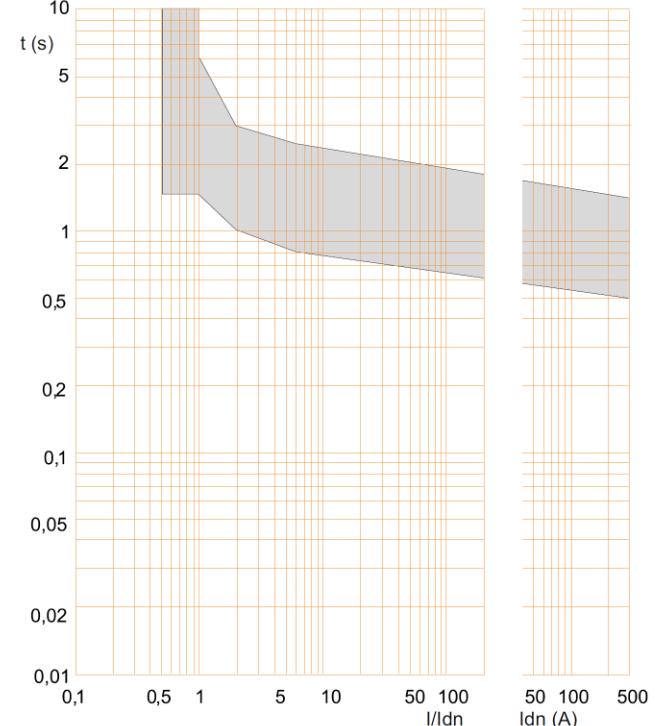


- Sensitivities 300mA, 1000mA and 3000mA with a time delay of 300ms.

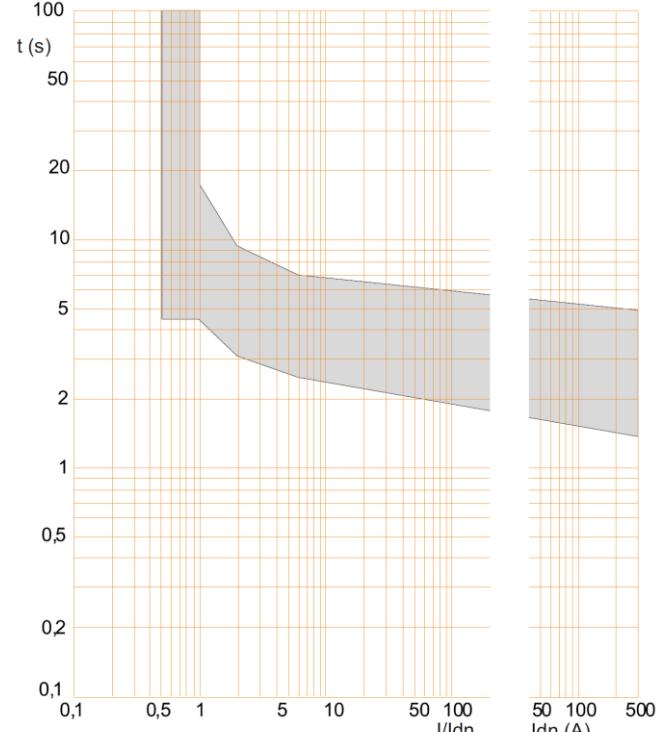


7. CURVES (continued)

- Sensitivities 300mA, 1000mA and 3000mA with a time delay of 1s.



- Sensitivities 300mA, 1000mA and 3000mA with a time delay of 3s.



RCD add-on module DX³ 63A - 125A with metering/measuring unit

Cat.Nos: 4 106 57 to 4 106 59

8. AUXILIARIES AND ACCESSORIES

Installation software:

- . XL Pro³.

Wiring accessories:

- . Terminal for Aluminium cable 95mm²(406311).
- . Terminal for Aluminium cable 50mm²(406310).