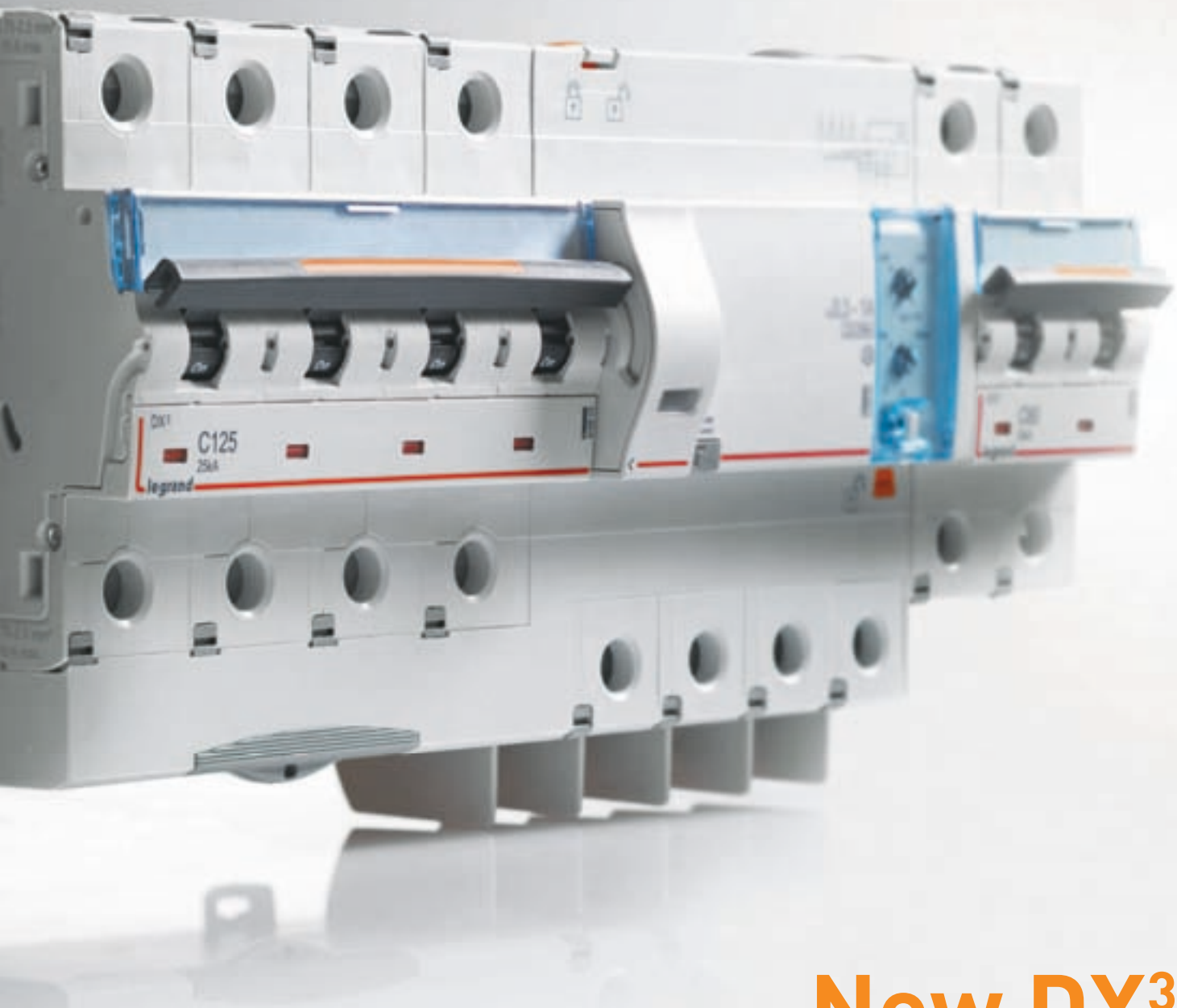


New DX³

High rating & breaking capacity

A NEW RANGE OF MODULAR CIRCUIT BREAKERS UP TO 125 A

legrand®

AN ENHANCED RANGE FOR HIGH-PERFORMANCE INSTALLATIONS

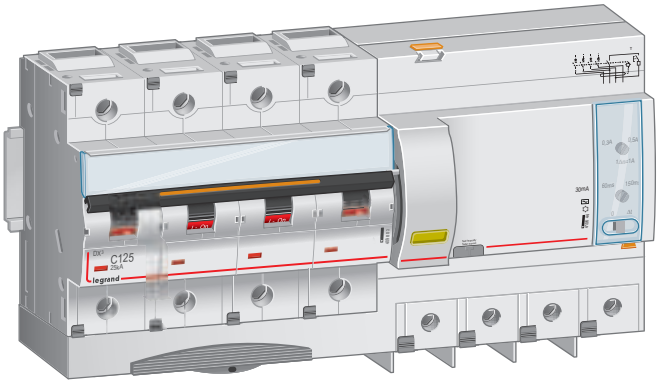
DX³ : the new Legrand MCBs

With DX³, Legrand is offering a new range of MCBs and add-on modules for all applications that require high performance levels.

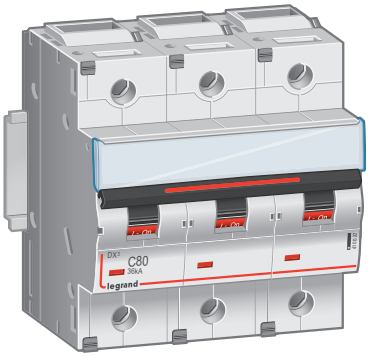
- High breaking capacities: 16, 25, 36, 50 kA
- High nominal currents: up to 125 A
- High level of selectivity
- Choice of tripping curves: B, C, D, Z, MA



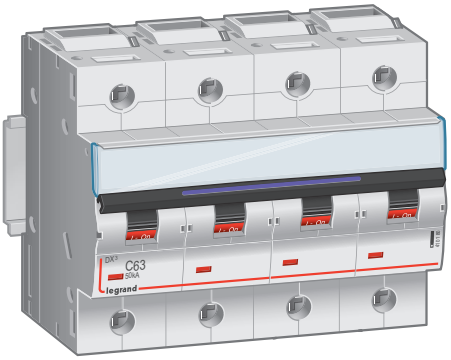
DX³ 10000 -16 kA single pole



DX³ 25 kA 4-pole with add-on module



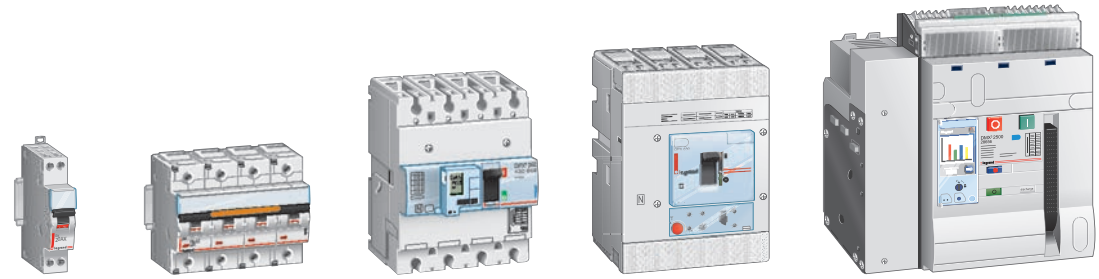
DX³ 36 kA 3-pole



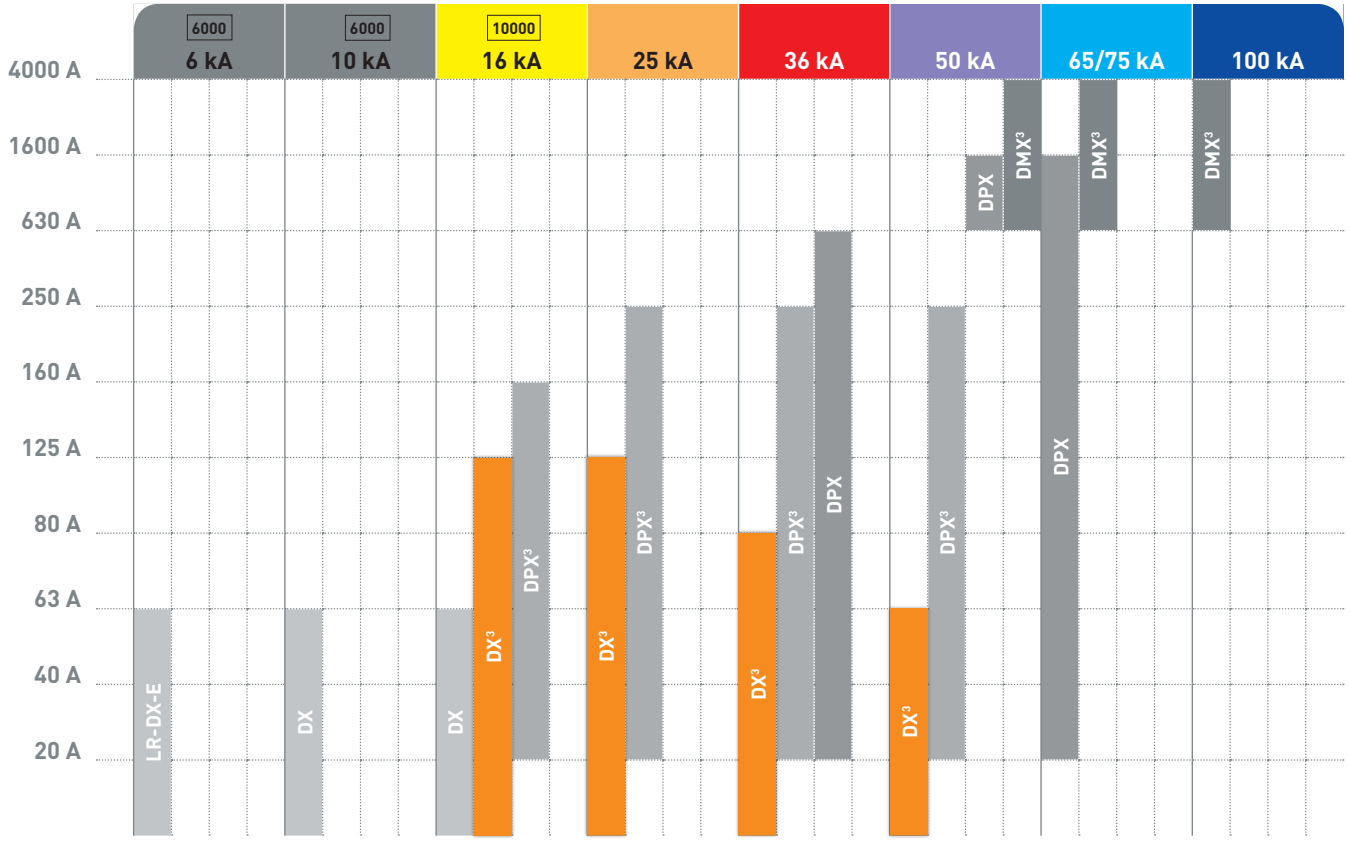
DX³ 50 kA 4-pole



Each breaking capacity has its own power solution



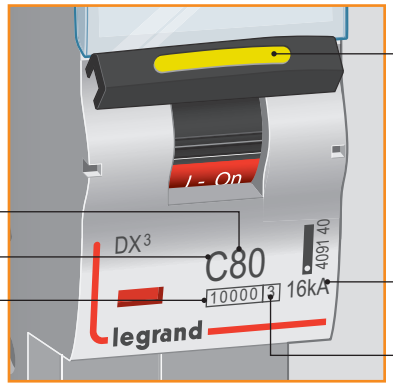
DX | DX³ | DPX³ | DPX | DMX³



TOP QUALITY ELECTRICAL PERFORMANCE

High breaking capacity

The speed and reliability of their new double contact breaking mechanism guarantee the breaking capacity and long service life of DX³ MCBs up to the maximum rating.



Rating

Curve

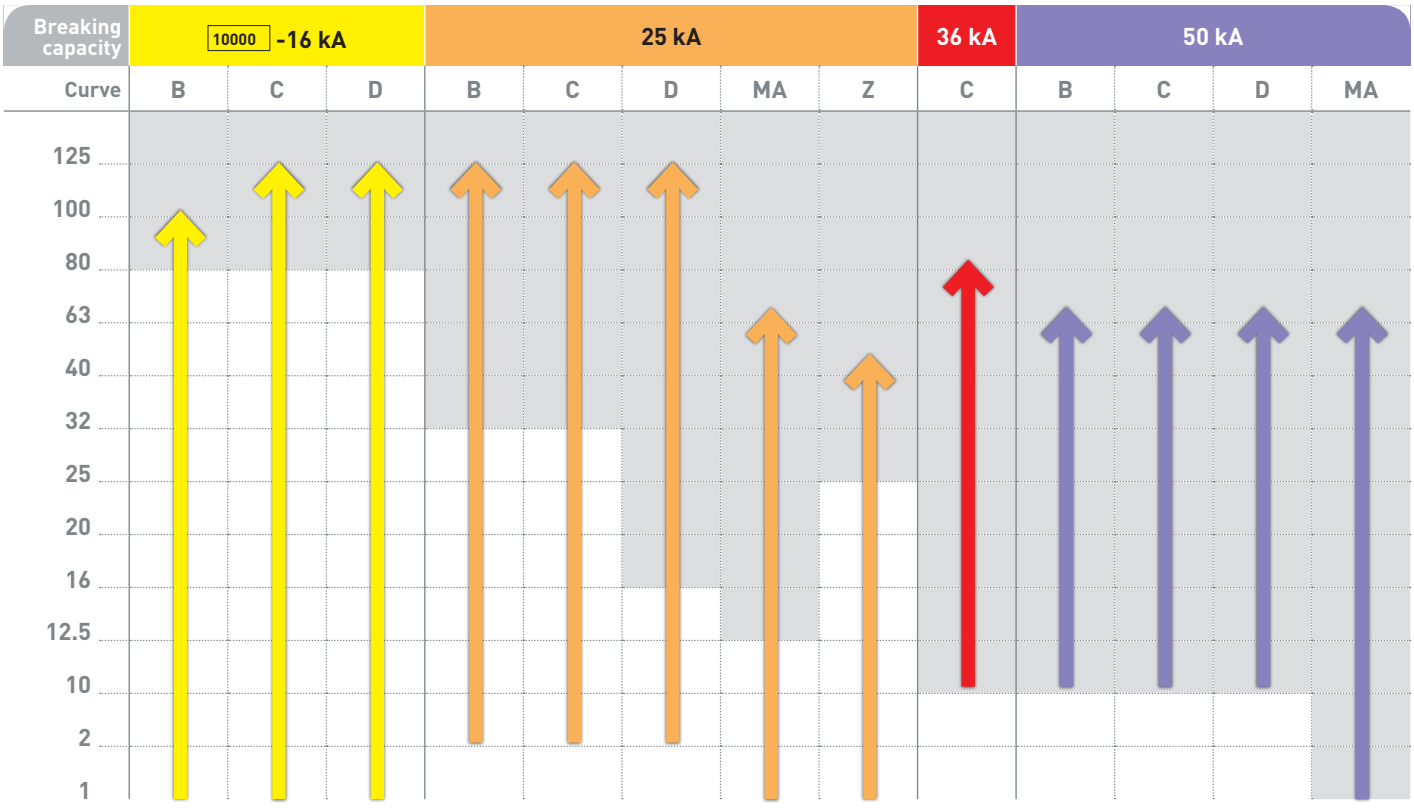
Breaking capacity according to IEC 60898-1

Identification of the breaking capacity
16 kA
25 kA
36 kA
50 kA

Breaking capacity according to IEC 60947-2

Limitation class

Dual identification of the breaking capacity and clear marking for easier maintenance



1.5 module/pole

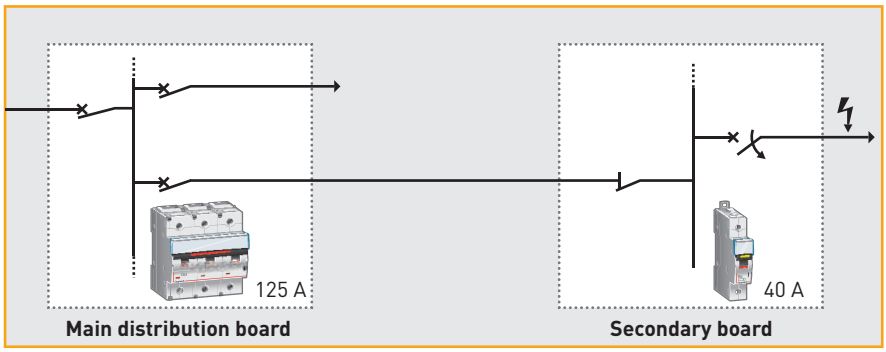
1 module/pole

The information in the table applies to 1P, 3P and 4P MCBs. For further information on the number of modules per pole, please refer to the catalogue pages



High level of selectivity

The high selectivity level of the new DX³ improves the continuity of service of installations.



	Upstream MCB: DX³ 25 KA, 36 KA, 50 KA - (CURVE C)						
Downstream MCB: DX ⩽ 10000 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
⩽ 4 A	1200 A	1500 A	2000 A	T	T	T	T
⩽ 6 A	700 A	1200 A	1500 A	3000 A	4000 A	T	T
10 A	500 A	700 A	1000 A	1800 A	3000 A	5000 A	T
16 A	300 A	500 A	700 A	1300 A	2000 A	3600 A	5500 A
20 A	300 A	400 A	500 A	1000 A	1600 A	3000 A	4000 A
25 A	240 A	400 A	500 A	800 A	1300 A	2400 A	3300 A
32 A		300 A	500 A	600 A	1000 A	1800 A	2700 A
40 A			400 A	600 A	800 A	1600 A	2400 A
50 A				500 A	800 A	900 A	1700 A
63 A					650 A	900 A	1200 A

Example:
Selectivity between a DX³ 125 A MCB in the main distribution board and a DX 40 A MCB in the secondary board is guaranteed up to a short-circuit current of 2400 A.
For other combinations, see the full selectivity table on pages 22-23.

INNOVATIONS THAT MAKE A DIFFERENCE

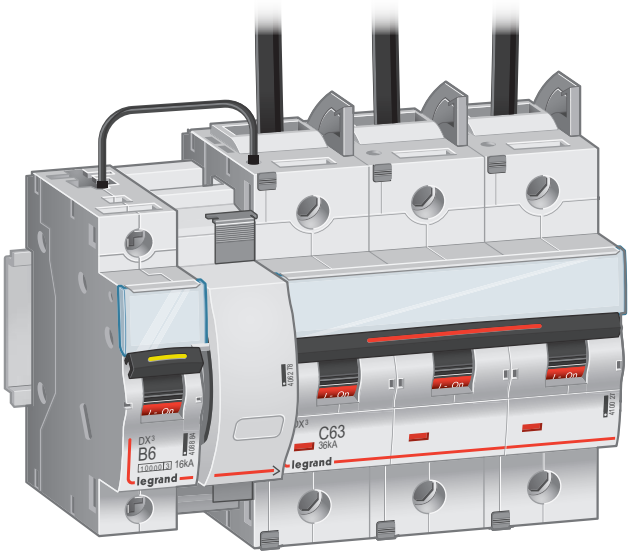
Easy to install

The new DX³ range has clever innovations that simplify installers' work:
- Integrated retractable insulating shields
- Automatic tap-off terminals
- New label-holder.





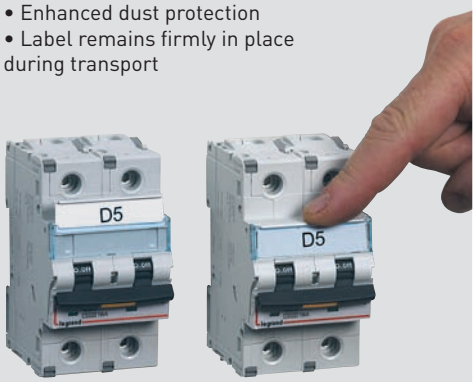
With the integrated retractable insulating shields, there is no need for any additional accessories to isolate the connections on all breaking capacities and high ratings of the 1.5 module/pole MCBs up fo 125A.



On DX³ 10000 - 16 kA, 25 kA and 36 kA from 80 to 125 A, automatic tap-off terminals simplify the connection of an auxiliary circuit or a measuring device.

INNOVATIVE LABEL-HOLDER:

- Improved opening
- Enhanced dust protection
- Label remains firmly in place during transport





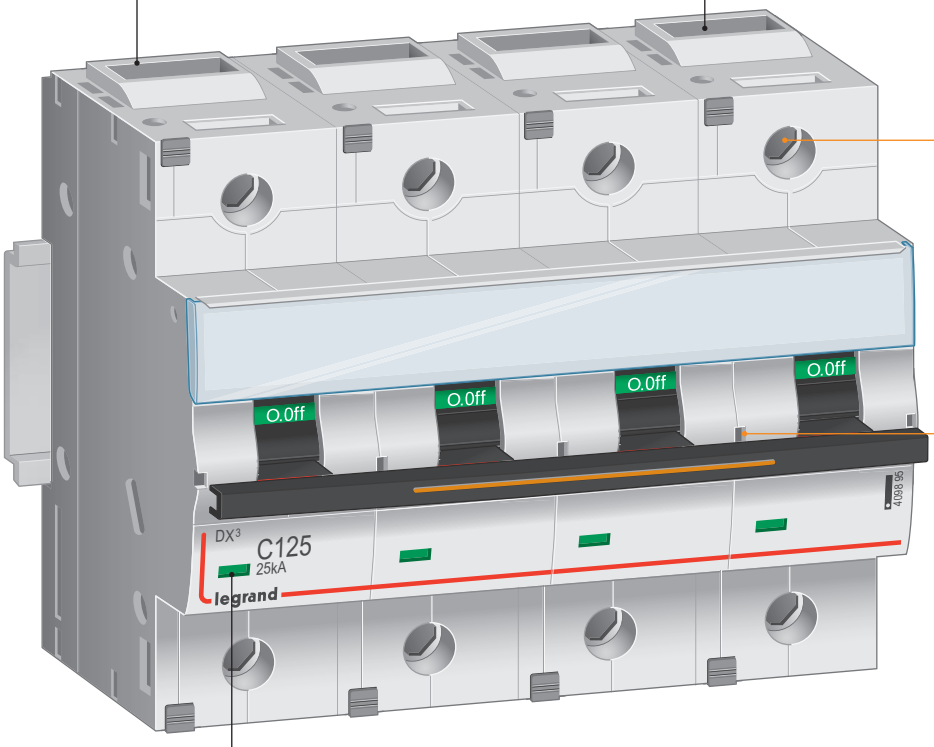
Improved safety and ease of operation

To ensure the connections are reliable, Legrand has given its new MCBs wide connection terminals which are tightened using an Allen key and have a loosening compensation system.

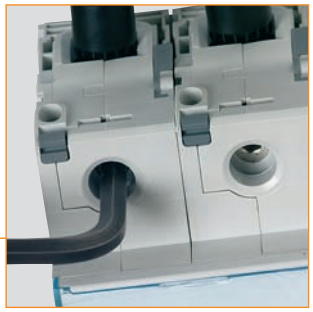
Ease of maintenance and operation has not been forgotten, with a status indicator and a clever system for locking the handle.

To limit any risk of abnormal temperature rise, the new DX³ terminals automatically compensate for the loosening which occurs naturally over time (temperature rise reduced by 20% in comparison with a conventional terminal)

Terminal capacity:
In ≤ 63 A -> 50 mm²
In ≥ 80 A -> 70 mm²



Indicator showing the position of the contacts



The use of an Allen key makes it easier to tighten to the required torque

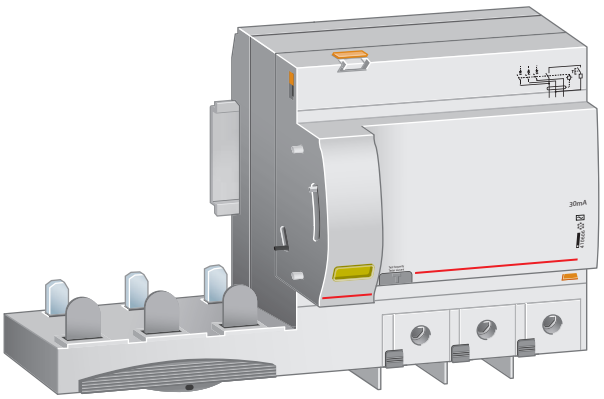


Units can be locked on site using a single Colring cable tie (for 1,5 module/pole MCBs)

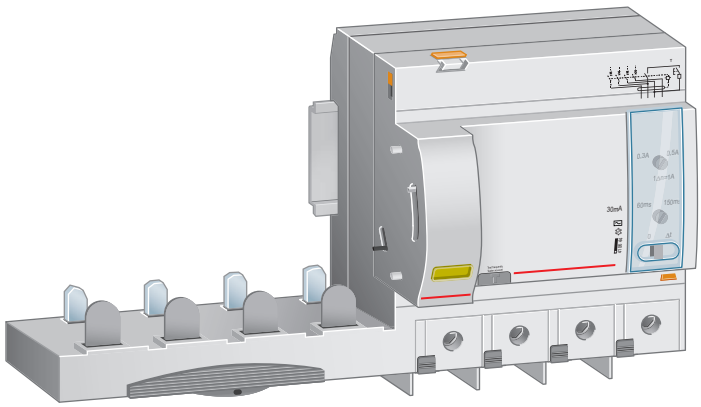
RESIDUAL CURRENT PROTECTION ADJUSTED TO REQUIREMENTS

New DX³ add-on modules for MCBs,1.5 module per pole

The new DX³ add-on modules have a wide range of characteristics to meet the most stringent requirements for the protection of people. Like the new DX³ MCBs, they offer high performance and incorporate innovative solutions for installation and operation.



3 P - 125 A add-on module - Fixed version



4 P - 125 A add-on module - Adjustable version

Version		Fixed				Adjustable	
Sensitivity		30 mA		300 mA		300-500-1000 mA	
Time delay		Instantaneous		Instantaneous		0-60-150 ms	
Max. current		63 A	125 A	63 A	125 A	63 A	125 A
AC type	4P		✔		✔		
A type Hpi	2P	✔	✔			✔	✔
	3P	✔	✔	✔		✔	✔
	4P	✔	✔	✔		✔	✔

A TYPE-Hpi:
HIGH PERFORMANCE
RESIDUAL CURRENT PROTECTION

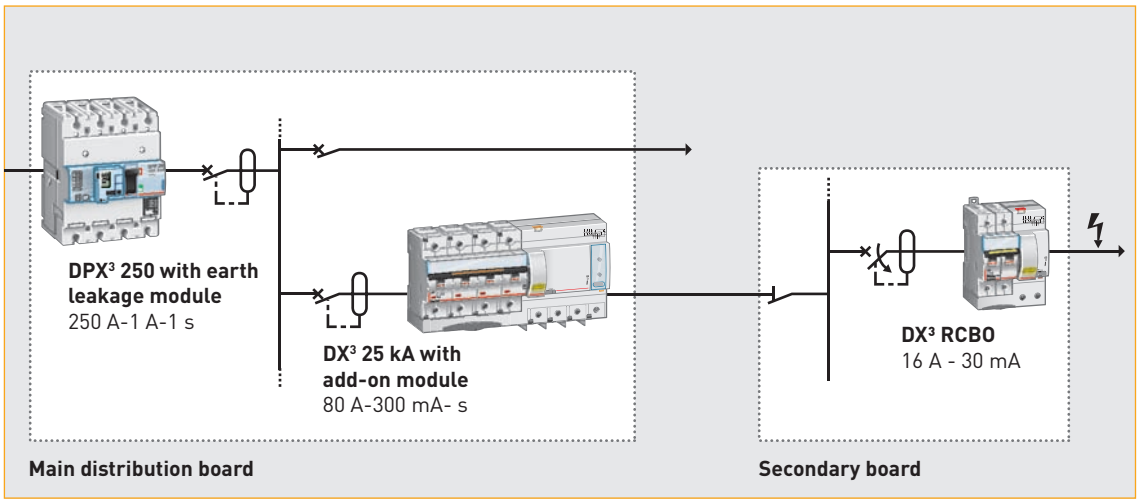
Hpi

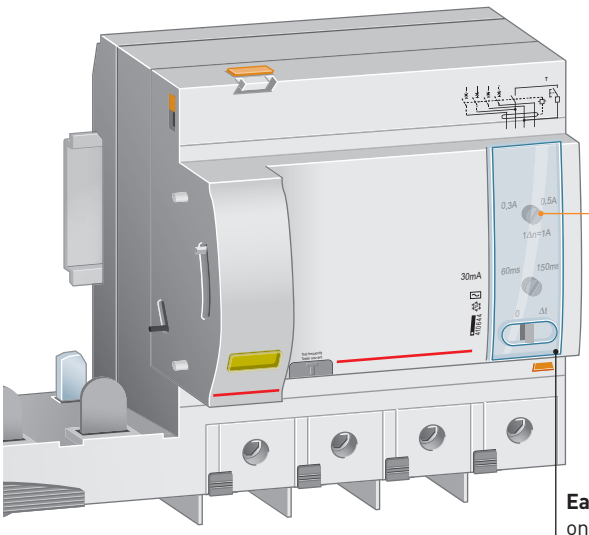
The electronic circuits and high quality of the integrated components of the Hpi add-on modules prevent false tripping while providing better protection for people:
- Detection of faults with a DC component (Hpi add-on modules are A type)
- Fast tripping
- Good response at high frequency
- Immunity to transient interference and high frequency signals
- Operation to -25°C



Residual current protection selectivity for maximum continuity of service

By adjusting the sensitivity and the breaking time, DX³ add-on modules can provide selectivity up to 3 levels. While ensuring total safety of people, they enable those parts of the installation that are not affected by a fault to remain operational.







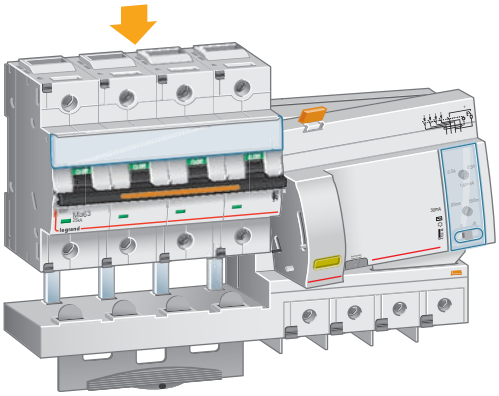
Predefined slots

Easy to access settings
on front panel with sealable transparent cover
IΔn = 300/500/1000 mA
t = 0 s / S (60 ms) / R (150 ms)

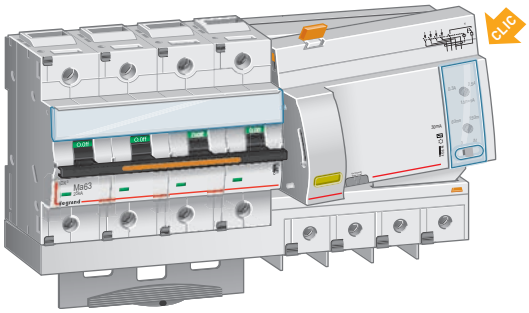
EASY TO INSTALL

A single mounting principle for all DX³ add-on modules

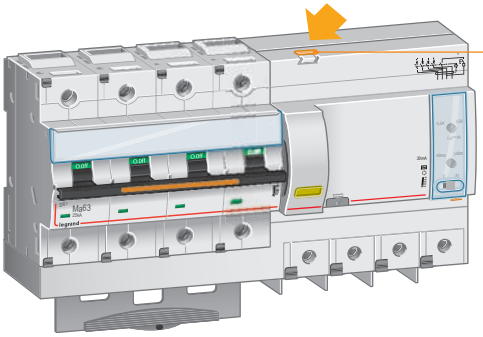
It has never been so quick and safe to fit an add-on module.
The exclusive Legrand system, common to the whole DX³ range, makes the assembly extremely strong and provides guaranteed safety.



1) Fit the MCB

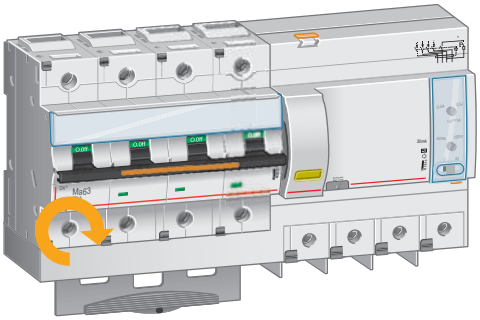


2) Fit the earth leakage module

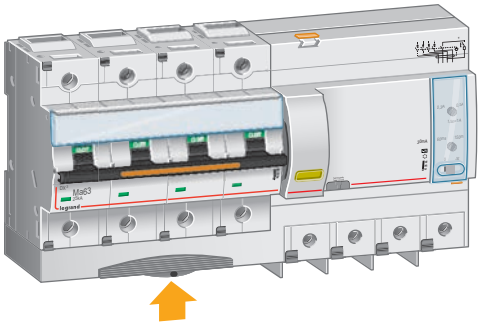




3) Lock the combination together

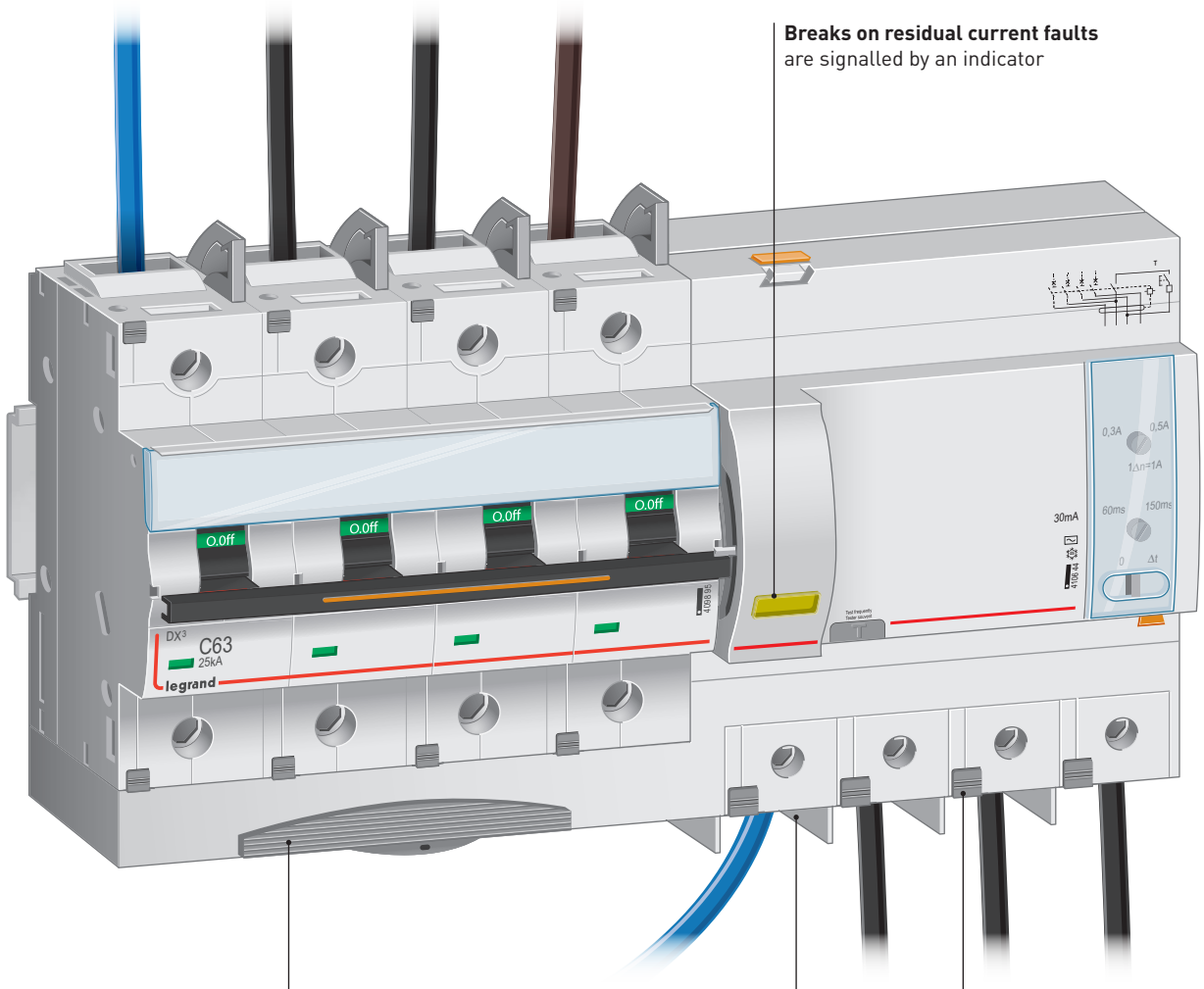


4) Tighten the terminals



5) Fit the screw cover





Breaks on residual current faults
are signalled by an indicator

Sealable screw cover
included on the whole range

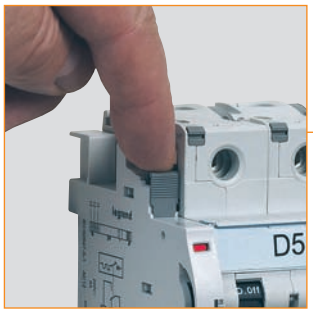
High-capacity terminals
and integrated insulating shields

125 A add-on modules have
automatic connection tap-off terminals for auxiliary circuits

AUXILIARIES AND DISTRIBUTION

Control and signalling auxiliaries

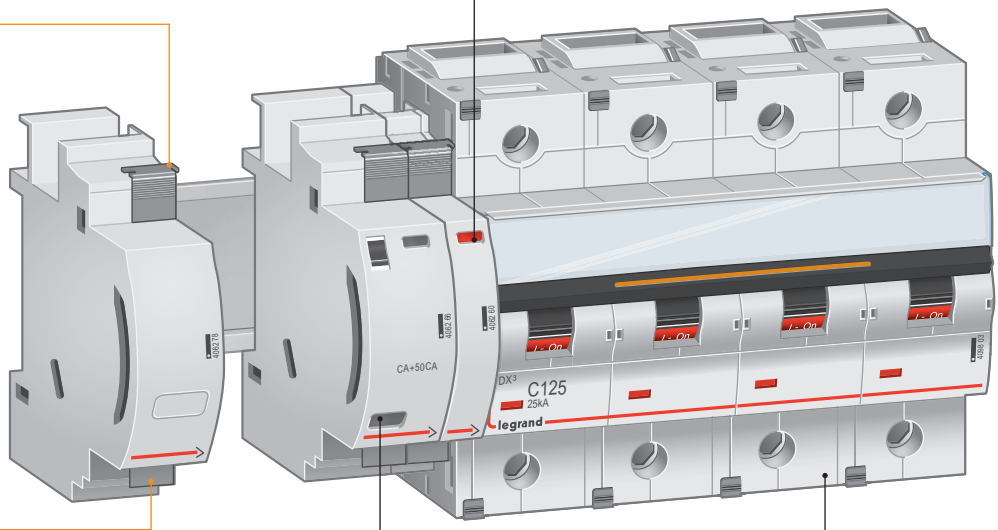
The new DX³ MCBs have a new range of electrical auxiliaries and dedicated accessories:
- Auxiliary and fault signal contacts
- Current shunt trips and undervoltage releases
- Motorised controls (for 1 module/pole MCBs)
- Terminals for aluminium connections
- Screw covers, terminal shields, padlocking, etc.



The auxiliaries fit firmly without the need for any tools and ensure the whole assembly is robust



The accessibility of the terminals and the visibility of the screw heads make the installer's work easier



The colour codes of the indicators on the signalling auxiliaries are the same as those of the remote indicators

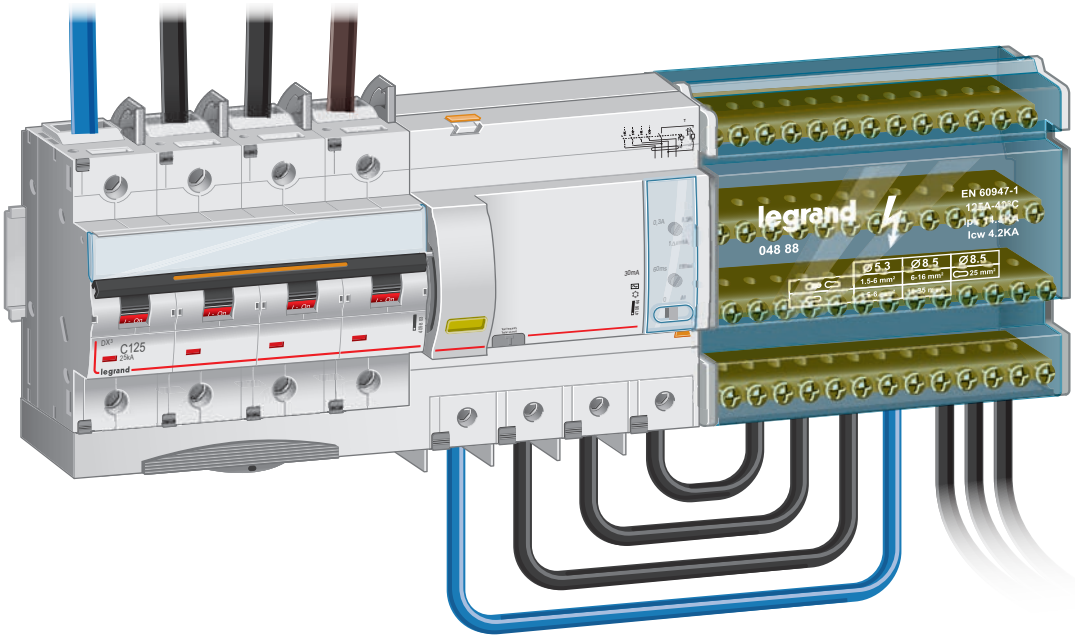
The fault signal contacts have a test button

DX³ MCBs take up to 3 auxiliaries including one control auxiliary



Modular distribution blocks

Totally compatible with the new DX³ MCBs, Legrand modular distribution blocks have been designed with maximum safety in mind:
- Individual insulation of the bars
- High resistance to short circuits
- Nominal currents up to 250 A.



125 A four pole modular distribution block: ideal for distribution at the supply end of secondary boards



Joinable modular distribution block: build your distribution block



Distribution by prong-type busbar up to 63 A for 1 module per pole devices

MCBs DX³

thermal magnetic MCBs up to 125 A
16, 25, 36 and 50 kA - B, C, D, MA and Z curves





		10000 - 16 kA				25 kA				36 kA			
Curve	In (A)	1P	2P	3P	4P	1P	2P	3P	4P	2P	3P	4P	
B	10						409 715	409 728	409 741				
	16						409 716	409 729	409 742				
	20						409 717	409 730	409 743				
	25						409 718	409 731	409 744				
	32						409 719	409 732	409 745				
	40						409 720	409 733	409 746				
	50						409 721	409 734	409 747				
	63						409 722	409 735	409 748				
	80		408 966	409 015	409 089				409 749				
	100		408 967	409 016	409 090				409 750				
	125								409 751				
C	2					409 752	409 765	409 778	409 791				
	6					409 753	409 766	409 779	409 792				
	10					409 754	409 767	409 780	409 793	410 007	410 020	410 033	
	16					409 755	409 768	409 781	409 794	410 008	410 021	410 034	
	20					409 756	409 769	409 782	409 795	410 009	410 022	410 035	
	25					409 757	409 770	409 783	409 796	410 010	410 023	410 036	
	32					409 758	409 771	409 784	409 797	410 011	410 024	410 037	
	40					409 759	409 772	409 785	409 798	410 012	410 025	410 038	
	50					409 760	409 773	409 786	409 799	410 013	410 026	410 039	
	63					409 761	409 774	409 787	409 800	410 014	410 027	410 040	
	80	409 140	409 228	409 280	409 362	409 762	409 775	409 788	409 801	410 015	410 028	410 041	
	100	409 141	409 229	409 281	409 363	409 763	409 776	409 789	409 802				
	125	409 142	409 230	409 282	409 364	409 764	409 777	409 790	409 803				
D	2					409 804	409 817	409 830	409 843				
	6					409 805	409 818	409 831	409 844				
	10					409 806	409 819	409 832	409 845				
	16					409 807	409 820	409 833	409 846				
	20					409 808	409 821	409 834	409 847				
	25					409 809	409 822	409 835	409 848				
	32					409 810	409 823	409 836	409 849				
	40					409 811	409 824	409 837	409 850				
	50					409 812		409 838	409 851				
	63					409 813		409 839	409 852				
	80		409 458	409 506	409 540	409 814		409 840	409 853				
	100		409 459	409 507	409 541	409 815		409 841	409 854				
	125		409 460	409 508	409 542	409 816		409 842	409 855				
MA	1,6						409 866	409 876	409 886				
	2,5						409 867	409 877	409 887				
	4						409 868	409 878	409 888				
	6,3						409 869	409 879	409 889				
	10						409 870	409 880	409 890				
	12,5						409 871	409 881	409 891				
	16						409 872	409 882	409 892				
	25						409 873	409 883	409 893				
	40							409 884	409 894				
	63							409 885	409 895				
Z	1						409 907	409 918	409 929				
	2						409 908	409 919	409 930				
	3						409 909	409 920	409 931				
	4						409 910	409 921	409 932				
	6						409 911	409 922	409 933				
	10						409 912	409 923	409 934				
	16						409 913	409 924	409 935				
	20						409 914	409 925	409 936				
	25						409 915	409 926	409 937				

Red catalogue numbers : New products

MCBs DX³ 10000 - 16 kA

thermal magnetic MCBs from 80 A to 125 A
B, C and D curves



50 kA			
1P	2P	3P	4P
	410 097		410 121
	410 098		410 122
	410 099		410 123
	410 100		410 124
	410 101		410 125
	410 102		410 126
			410 127
			410 128
410 134	410 147	410 160	410 173
410 135	410 148	410 161	410 174
410136	410 149	410 162	410 175
410 137	410 150	410 163	410 176
410 138	410 151	410 164	410 177
410 139	410 152	410 165	410 178
410 140	410 153	410 166	410 179
410 141	410 154	410 167	410 180
410 186	410 199	410 212	410 225
410 187	410 200	410 213	410 226
410 188	410 201	410 214	410 227
410 189	410 202	410 215	410 228
410 190	410 203	410 216	410 229
410 191	410 204	410 217	410 230
410 192		410 218	410 231
410 193		410 219	410 232
		410 246	410 256
		410 247	410 257
		410 248	410 258
		410 249	410 259
		410 250	410 260
		410 251	410 261
		410 252	410 262
		410 253	410 263
		410 254	410 264
		410 255	410 265



409 015



409 508

Technical characteristics (p. 24)

Breaking capacity:
10000 - IEC 60898-1 - 400 VA
16 kA - IEC 60947-2 - 400 VA

Single pole 230/400 VA

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	409 140	80	1.5
1	409 141	100	1.5
1	409 142	125	1.5

2-pole - 230/400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1	408 966	409 228	80	3
1	408 967	409 229	100	3
1		409 230	125	3
	D curve			
1	409 458		80	3
1	409 459		100	3
1	409 460		125	3

3-pole - 400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1	409 015	409 280	80	4.5
1	409 016	409 281	100	4.5
1		409 282	125	4.5
	D curve			
1	409 506		80	4.5
1	409 507		100	4.5
1	409 508		125	4.5

4-pole - 400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1	409 089	409 362	80	6
1	409 090	409 363	100	6
1		409 364	125	6
	D curve			
1	409 540		80	6
1	409 541		100	6
1	409 542		125	6

Red catalogue numbers : New products

MCBs DX³ - 25 kA
thermal magnetic MCBs from 2 A to 125 A
B and C curves


409 772


409 803

Technical characteristics (p. 24)

Breaking capacity:
25 kA - IEC 60947-2 - 400 VA

Single pole 230/400 VA

Pack	Cat.Nos	Nominal rating (A)	Number of modules
	C curve		
1	409 752	2	1
1	409 753	6	1
1	409 754	10	1
1	409 755	16	1
1	409 756	20	1
1	409 757	25	1
1	409 758	32	1.5
1	409 759	40	1.5
1	409 760	50	1.5
1	409 761	63	1.5
1	409 762	80	1.5
1	409 763	100	1.5
1	409 764	125	1.5

2-pole - 230/400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1		409 765	2	2
1		409 766	6	2
1	409 715	409 767	10	2
1	409 716	409 768	16	2
1	409 717	409 769	20	2
1	409 718	409 770	25	2
1	409 719	409 771	32	2
1	409 720	409 772	40	3
1	409 721	409 773	50	3
1	409 722	409 774	63	3
1		409 775	80	3
1		409 776	100	3
1		409 777	125	3

3-pole - 400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1		409 778	2	3
1		409 779	6	3
1	409 728	409 780	10	3
1	409 729	409 781	16	3
1	409 730	409 782	20	3
1	409 731	409 783	25	3
1	409 732	409 784	32	4.5
1	409 733	409 785	40	4.5
1	409 734	409 786	50	4.5
1	409 735	409 787	63	4.5
1		409 788	80	4.5
1		409 789	100	4.5
1		409 790	125	4.5

4-pole - 400 V±

	B curve	C curve	Nominal rating (A)	Number of modules
1		409 791	2	4
1		409 792	6	4
1	409 741	409 793	10	4
1	409 742	409 794	16	4
1	409 743	409 795	20	4
1	409 744	409 796	25	4
1	409 745	409 797	32	6
1	409 746	409 798	40	6
1	409 747	409 799	50	6
1	409 748	409 800	63	6
1	409 749	409 801	80	6
1	409 750	409 802	100	6
1	409 751	409 803	125	6

MCBs DX³ - 25 kA
thermal magnetic MCBs from 2 A to 125 A
D curve


409 824


409 833

Technical characteristics (p. 24)

Breaking capacity:
25 kA - IEC 60947-2 - 400 VA

Single pole 230/400 VA

Pack	Cat.Nos	Nominal rating (A)	Number of modules
	D curve		
1	409 804	2	1
1	409 805	6	1
1	409 806	10	1
1	409 807	16	1.5
1	409 808	20	1.5
1	409 809	25	1.5
1	409 810	32	1.5
1	409 811	40	1.5
1	409 812	50	1.5
1	409 813	63	1.5
1	409 814	80	1.5
1	409 815	100	1.5
1	409 816	125	1.5

2-pole - 230/400 V±

	D curve	Nominal rating (A)	Number of modules
1	409 817	2	2
1	409 818	6	2
1	409 819	10	2
1	409 820	16	2
1	409 821	20	2
1	409 822	25	2
1	409 823	32	3
1	409 824	40	3

3-pole - 400 V±

	D curve	Nominal rating (A)	Number of modules
1	409 830	2	3
1	409 831	6	3
1	409 832	10	3
1	409 833	16	4.5
1	409 834	20	4.5
1	409 835	25	4.5
1	409 836	32	4.5
1	409 837	40	4.5
1	409 838	50	4.5
1	409 839	63	4.5
1	409 840	80	4.5
1	409 841	100	4.5
1	409 842	125	4.5

4-pole - 400 V±

	D curve	Nominal rating (A)	Number of modules
1	409 843	2	4
1	409 844	6	4
1	409 845	10	4
1	409 846	16	6
1	409 847	20	6
1	409 848	25	6
1	409 849	32	6
1	409 850	40	6
1	409 851	50	6
1	409 852	63	6
1	409 853	80	6
1	409 854	100	6
1	409 855	125	6

Red catalogue numbers : New products

MCBs DX³ - 25 kA
thermal magnetic MCBs from 1.6 A to 63 A
MA curve



409 885

Technical characteristics (p. 24)

Breaking capacity:
25 kA - IEC 60947-2 - 400 VA

Pack	Cat.Nos	2-pole - 230/400 V±		
	MA curve	Nominal rating (A)	Number of modules	
1	409 866	1.6	2	
1	409 867	2.5	2	
1	409 868	4	2	
1	409 869	6.3	2	
1	409 870	10	2	
1	409 871	12.5	2	
1	409 872	16	2	
1	409 873	25	2	

		3-pole - 400 V±	
	MA curve	Nominal rating (A)	Number of modules
1	409 876	1.6	3
1	409 877	2.5	3
1	409 878	4	3
1	409 879	6.3	3
1	409 880	10	3
1	409 881	12.5	4.5
1	409 882	16	4.5
1	409 883	25	4.5
1	409 884	40	4.5
1	409 885	63	4.5

		4-pole - 400 V±	
	MA curve	Nominal rating (A)	Number of modules
1	409 886	1.6	4
1	409 887	2.5	4
1	409 888	4	4
1	409 889	6.3	4
1	409 890	10	4
1	409 891	12.5	6
1	409 892	16	6
1	409 893	25	6
1	409 894	40	6
1	409 895	63	6

MCBs DX³ - 25 kA
thermal magnetic MCBs from 1 A to 25 A
Z curve



409 925

Technical characteristics (p. 24)

Breaking capacity:
25 kA - IEC 60947-2 - 400 VA

Pack	Cat.Nos	2-pole - 230/400 V±		
	Z curve	Nominal rating (A)	Number of modules	
1	409 907	1	2	
1	409 908	2	2	
1	409 909	3	2	
1	409 910	4	2	
1	409 911	6	2	
1	409 912	10	2	
1	409 913	16	2	
1	409 914	20	2	
1	409 915	25	2	

		3-pole - 400 V±	
	Z curve	Nominal rating (A)	Number of modules
1	409 918	1	3
1	409 919	2	3
1	409 920	3	3
1	409 921	4	3
1	409 922	6	3
1	409 923	10	3
1	409 924	16	3
1	409 925	20	3
1	409 926	25	3

		4-pole - 400 V±	
	Z curve	Nominal rating (A)	Number of modules
1	409 929	1	4
1	409 930	2	4
1	409 931	3	4
1	409 932	4	4
1	409 933	6	4
1	409 934	10	4
1	409 935	16	4
1	409 936	20	4
1	409 937	25	4

MCBs DX³ - 36 kA
thermal magnetic MCBs from 10 A to 80 A
C curve


410 012


410 027

Technical characteristics (p. 24)

Breaking capacity:
36 kA - IEC 60947-2 - 400 VA

2-pole 230/400 VA

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	410 007	10	3
1	410 008	16	3
1	410 009	20	3
1	410 010	25	3
1	410 011	32	3
1	410 012	40	3
1	410 013	50	3
1	410 014	63	3
1	410 015	80	3

3-pole 400 VA

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	410 020	10	4.5
1	410 021	16	4.5
1	410 022	20	4.5
1	410 023	25	4.5
1	410 024	32	4.5
1	410 025	40	4.5
1	410 026	50	4.5
1	410 027	63	4.5
1	410 028	80	4.5

4-pole 400 VA

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	410 033	10	6
1	410 034	16	6
1	410 035	20	6
1	410 036	25	6
1	410 037	32	6
1	410 038	40	6
1	410 039	50	6
1	410 040	63	6
1	410 041	80	6

MCBs DX³ - 50 kA
thermal magnetic MCBs from 10 A to 63 A
B and C curves


410 101


410 180

Technical characteristics (p. 24)

Breaking capacity:
50 kA - IEC 60947-2 - 400 VA

Single pole 230/400 VA

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	410 134	10	1.5
1	410 135	16	1.5
1	410 136	20	1.5
1	410 137	25	1.5
1	410 138	32	1.5
1	410 139	40	1.5
1	410 140	50	1.5
1	410 141	63	1.5

2-pole - 230/400 V±

	Cat.Nos B curve	C curve	Nominal rating (A)	Number of modules
1	410 097	410 147	10	3
1	410 098	410 148	16	3
1	410 099	410 149	20	3
1	410 100	410 150	25	3
1	410 101	410 151	32	3
1	410 102	410 152	40	3
1		410 153	50	3
1		410 154	63	3

3-pole - 400 V±

Pack	Cat.Nos C curve	Nominal rating (A)	Number of modules
1	410 160	10	4.5
1	410 161	16	4.5
1	410 162	20	4.5
1	410 163	25	4.5
1	410 164	32	4.5
1	410 165	40	4.5
1	410 166	50	4.5
1	410 167	63	4.5

4-pole - 400 V±

	Cat.Nos B curve	C curve	Nominal rating (A)	Number of modules
1	410 121	410 173	10	6
1	410 122	410 174	16	6
1	410 123	410 175	20	6
1	410 124	410 176	25	6
1	410 125	410 177	32	6
1	410 126	410 178	40	6
1	410 127	410 179	50	6
1	410 128	410 180	63	6

Red catalogue numbers : New products

MCBs DX³ - 50 kA
thermal magnetic MCBs from 10 A to 63 A
D curve


410 200


410 217

Technical characteristics (p. 24)

Breaking capacity:
50 kA - IEC 60947-2 - 400 VA

Single pole 230/400 VA

Pack	Cat.Nos	D curve	Nominal rating (A)	Number of modules
1	410 186		10	1.5
1	410 187		16	1.5
1	410 188		20	1.5
1	410 189		25	1.5
1	410 190		32	1.5
1	410 191		40	1.5
1	410 192		50	1.5
1	410 193		63	1.5

2-pole - 230/400 V±

Pack	Cat.Nos	D curve	Nominal rating (A)	Number of modules
1	410 199		10	3
1	410 200		16	3
1	410 201		20	3
1	410 202		25	3
1	410 203		32	3
1	410 204		40	3

3-pole - 400 V±

Pack	Cat.Nos	D curve	Nominal rating (A)	Number of modules
1	410 212		10	4.5
1	410 213		16	4.5
1	410 214		20	4.5
1	410 215		25	4.5
1	410 216		32	4.5
1	410 217		40	4.5
1	410 218		50	4.5
1	410 219		63	4.5

4-pole - 400 V±

Pack	Cat.Nos	D curve	Nominal rating (A)	Number of modules
1	410 225		10	6
1	410 226		16	6
1	410 227		20	6
1	410 228		25	6
1	410 229		32	6
1	410 230		40	6
1	410 231		50	6
1	410 232		63	6

MCBs DX³ - 50 kA
thermal magnetic MCBs from 1.6 A to 63 A
MA curve


410 251


410 265

Technical characteristics (p. 24)

Breaking capacity:
50 kA - IEC 60947-2 - 400 VA

3-pole - 400 V±

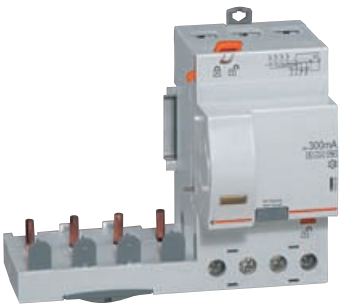
Pack	Cat.Nos	MA curve	Nominal rating (A)	Number of modules
1	410 246		1.6	4.5
1	410 247		2.5	4.5
1	410 248		4	4.5
1	410 249		6.3	4.5
1	410 250		10	4.5
1	410 251		12.5	4.5
1	410 252		16	4.5
1	410 253		25	4.5
1	410 254		40	4.5
1	410 255		63	4.5

4-pole - 400 V±

Pack	Cat.Nos	MA curve	Nominal rating (A)	Number of modules
1	410 256		1.6	6
1	410 257		2.5	6
1	410 258		4	6
1	410 259		6.3	6
1	410 260		10	6
1	410 261		12.5	6
1	410 262		16	6
1	410 263		25	6
1	410 264		40	6
1	410 265		63	6

Red catalogue numbers : New products

add-on modules DX³
for 1 module/pole DX³ MCBs



410 555

Technical characteristics (p. 25)

Conform to standard NF EN 61009-1
- AC type: detect faults with AC components
- Hpi type: detect faults with AC and DC components, increased immunity to false tripping

For mounting on the right-hand side of 1 module per pole DX³ MCBs

2-pole 230/400 VA

AC type ? - for traditional wiring

Pack	Cat.Nos Screw	Sensitivity (mA)	Current (A)	Nb. of modules
1	410 401	30	40	2
1	410 402	30	63	2
1	410 413	300	40	2
1	410 414	300	63	2
1	410 424	300 selective	63	2
1	410 426	1000 selective	63	2

Hpi type M H - for traditional wiring

1	410 434	30	40	2
1	410 435	30	63	2
1	410 446	300	40	2
1	410 457	300 selective	63	2
1	410 462	1000 selective	63	2

3-pole 400 VA

AC type ? - for traditional wiring

1	410 471	30	40	3
1	410 472	30	63	3
1	410 474	300	40	3
1	410 475	300	63	3
1	410 477	300 selective	63	3

Hpi type M H - for traditional wiring

1	410 486	30	63	3
1	410 489	300	63	3
1	410 493	300 selective	63	3

4-pole 400 VA

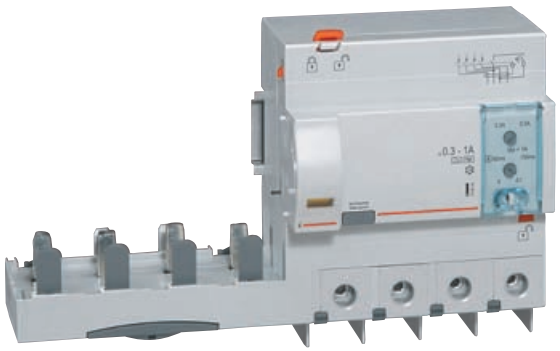
AC type ? - for traditional wiring

1	410 499	30	40	3
1	410 500	30	63	3
1	410 511	300	40	3
1	410 512	300	63	3
1	410 520	300 selective	40	3
1	410 521	300 selective	63	3
1	410 523	1000 selective	63	3

Hpi type M H - for traditional wiring

1	410 533	30	40	3
1	410 534	30	63	3
1	410 545	300	40	3
1	410 546	300	63	3
1	410 555	300 selective	63	3
1	410 560	1000 selective	63	3

add-on modules DX³
for 1.5 module/pole DX³ MCBs



410 644

Technical characteristics (p. 25)

Conform to standard NF EN 61009-1
- AC type: detect faults with AC components
- Hpi type: 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

2-pole 230/400 VA

Hpi type M H

Pack	Cat.Nos Screw	Sensitivity (mA)	Current (A)	Nb. of modules
1	410 576	30	63	2
1	410 577	30	125	4
1	410 583	300 to 1000	63	4
1	410 584	300 to 1000	125	4

3-pole 400 VA

Hpi type M H

1	410 605	30	63	3
1	410 606	30	125	6
1	410 608	300	63	3
1	410 611(1)	300 to 1000	63	6
1	410 612(1)	300 to 1000	125	6

4-pole 400 VA

AC type ?

1	410 624	30	125	6
1	410 628	300	125	6

Hpi type M H

1	410 636	30	63	3
1	410 637	30	125	6
1	410 640	300	63	3
1	410 643(1)	300 to 1000	63	6
1	410 644(1)	300 to 1000	125	6

(1) Adjustable sensitivity (3 steps): 300 mA, 500 mA, 1000 mA
Adjustable time delay (3 steps): 0 s, 60 ms (S), 150 ms (delayed)

Red catalogue numbers : New products

auxiliaries, accessories and remote control DX³


406 258


406 260


406 262


406 266


406 278


406 282


406 300



406 301

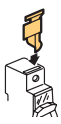
Technical characteristics (p. 24)

Auxiliaries

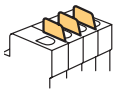
Pack	Cat.Nos		Nb. of modules
		Mounted on the left-hand side of the devices Possible mounting per device: 3 auxiliaries including 1 control auxiliary Auxiliaries common to MCBs, RCBOs RCDs and isolator switches Have space for inserting a supply busbar	
		Signalling auxiliaries	
1	406 258	Auxiliary changeover switch, 6 A - 250 VA Indicates the position of the contacts of the MCB, RCD or isolating switch	0.5
1	406 260	Fault signalling changeover switch, 6 A - 250 VA Indicates opening on a fault	0.5
1	406 262	Auxiliary changeover switch, 6 A - 250 VA Can be changed to a fault signalling changeover switch	0.5
1	406 266	Auxiliary changeover switch + fault signalling changeover switch, 6 A - 250 VA Can be changed to 2 auxiliary changeover switches	1
		Current shunt trips Used for remote tripping of an MCB, RCD, RCBO or isolating switch at the supply end	
1	406 276	12 to 48 VA/=	1
1	406 278	110 to 415 VA	1
		Undervoltage releases Time delay adjustable from 0 to 300 ms	
1	406 280	24 to 48 VA/=	1
1	406 282	230 VA	1
		Stand-alone release for N/C push-button (DA) Used for positive safety tripping on the control circuit via an N/C push-button Prevents the device with which it is used tripping if there is no supply voltage, while retaining the possibility of tripping via the control circuit for 60 hours minimum Not suitable for the supply circuits of moving machinery (e.g.: machine tools)	
1	406 287	Stand-alone release, 230 VA supplied with battery	1.5
1	406 285	Replacement battery for release Cat. No. 4062 87	

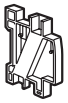
Accessories

Pack	Cat.Nos	
		Padlocking
2	406 303	Support for one Ø5 or Ø6 mm padlock for DX³ MCBs and RCDs or isolating switches
1	227 97	Ø6 shackle type padlock
3	406 313	Ø5 shackle type padlock
		Sealable screw cover - 4 separable poles
2	406 304	For DX³ MCBs, 1 module per pole
2	406 312	For DX³ MCBs, 1.5 module per pole



Accessories (continued)





Pack	Cat.Nos	
		Insulating shields For DX³ MCBs, 1 module per pole
1	406 305	Pole insulating shield (set of 6)
		Spacing units with feedthrough
10	406 307	0.5 module
		Aluminium terminals
1	406 310	50 mm²
1	406 311	95 mm² for 1.5 module/pole MCBs
		Terminal shields
1	406 306	For 1.5 module/pole products (set of 2)

Motorised controls

For mounting on the left-hand side of 1 module/pole MCBs, RCBOs, RCDs and isolating switches
Enable the products with which they are used to be opened and closed remotely
Take one control auxiliary and one signalling auxiliary

Standard

Cat.Nos	Control voltage	Nb. of modules
406 291	230 VA	1

With integrated automatic resetting
Automatically resets the product with which it is used, thus ensuring continuity of service

Cat.Nos	Control voltage	Nb. of modules
406 293	24-48 VA	2
406 295	230 VA	2

STOP&GO automatic reclosers

For mounting on the left-hand side of 2 modules
Ph+N or 2P RCDs, MCBs, RCBOs ≤ 63 A
Automatically reset the device with which they are used in the event of false tripping after a transient fault (e.g. : lightning)
Check the condition of the installation before resetting
Indicate any permanent fault (residual current or short-circuit fault)
Take one control auxiliary and one signalling auxiliary

Standard

Cat.Nos	Control voltage	Nb. of modules
406 288	230 VA	2

Self-test unit
With periodic testing of the residual current device with which it is used (sensitivity 30 mA or less)

Cat.Nos	Control voltage	Nb. of modules
406 289	230 VA	2

Red catalogue numbers : New products

back up tables (in kA)

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

Downstream devices	In (A)	Upstream devices: DX³ curves B, C & D						DPX³ 160				DPX³ 250			
		10000 16 kA	25 kA	36 kA		50 kA		16 kA	25 kA	36 kA	50 kA	25 kA	36 kA	50 kA	70 kA
		80 to 125	2 to 125	10 to 25	32 to 80	10 to 32	40 to 63	16 to 160	16 to 160	16 to 80	16 to 160	40 to 250	40 to 250	40 to 250	40 to 250
DX 6000 - 10 kA Curves B & C	≤ 20	16	25	25	25	50	36	16	25	25	25	25	25	25	25
	25	16	25		25	50	36	16	25	25	25	25	25	25	25
	32	16	25		25		36	16	25	25	25	25	25	25	25
	40	16	25		25		36	16	25	25	25	25	25	25	25
	50	16	25		25		36	16	25	25	25	25	25	25	25
	63	16	25		25			16	25	25	25	25	25	25	25
DX-h 10000 - 25 kA Curves B & C	≤ 20		25	36	25	50	36	16	25	25	25	25	25	25	25
	25		25		25	50	36	16		25	25	25	25	25	25
	32	16	25		25		36	16		25	25	25	25	25	25
	40	16	25		25		36	16	25	25	25	25	25	25	25
	50	16	25		25		36	16	25	25	25	25	25	25	25
	63	16	25		25			16	25	25	25	25	25	25	25
DX³ 10000 - 16 kA Curves B, C & D	80		25						25	25	25	25	25	25	25
	100		25						25	25	25	25	25	25	25
	125								25	25	25	25	25	25	25
DX³ 25 kA Curves B & C	≤ 25			36	36	50	50			36	36		36	36	36
	32 to 80			36	36		50			36	36		36	36	36
	100 & 125										36		36	36	36
DX³ 25 kA Curve D	≤ 10			36	36	50	50			36	36		36	36	36
	16 to 80			36	36		50			36	36		36	36	36
	100 & 125										36		36	36	36
DX³ 36 kA Curve C	10 to 63					50	50				50			50	50
	80										50			50	50
DX³ 50 kA Curves B, C, D & MA	10 to 63														70

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

Downstream devices	In (A)	Upstream devices: DX³							DPX³ 160				DPX³ 250			
		10000 16 kA	25 kA		36 kA		50 kA		16 kA	25 kA	36 kA	50 kA	25 kA	36 kA	50 kA	70 kA
		80 to 125	≤ 32	40 to 125	≤ 32	40 to 80	≤ 32	40 to 63	16 to 160	16 to 160	16 to 80	16 to 160	40 to 250	40 to 250	40 to 250	40 to 250
DX 6000 - 10 kA Curves B & C	≤ 20	25	50	25	50	25	50	50	22	40	50	50	40	50	50	50
	25	25	50	25	50	25	50	50	22	40	50	50	40	50	50	50
	32	25		25		25		50	22	40	50	50	40	50	50	50
	40	25		25		25		50	22	40	50	50	40	50	50	50
	50	25		25		25		50	22	40	36	36	36	36	36	36
	63	25		25		25			22	40	30	30	30	30	30	30
DX-h 10000 25 kA Curves B & C	≤ 20		50	25	50	25	50	50		40	50	50	40	50	50	50
	25		50	25	50	25	50	50		40	50	50	40	50	50	50
	32	25		25		25		50		40	50	50	40	50	50	50
	40	25		25		25		50		40	50	50	40	50	50	50
	50	25		25		25		50		36	36	36	36	36	36	36
	63	25		25		25				30	30	30	30	30	30	30
DX³ 10000 16 kA Curves B, C & D	80			32					35	40	50	50	40	40	50	50
	100			32					35	40	50	50	40	40	50	50
	125								35	40	50	50	40	40	50	50
DX³ 25 kA Curves B, C & MA	≤ 25				60	50	70	70			55	55			60	60
	32 to 80					50		70			65	65			60	60
	100 & 125											65			60	60
DX³ 25 kA Curve D	≤ 10				60	50	50	50			55	55			60	60
	16 to 80					50		50			65	65			60	60
	100 & 125											65			60	60
DX³ 36 kA Curve C	10 to 63						85	72							75	75
	80														75	75
DX³ 50 kA Curves B, C, D & MA	10 to 63															120

TT or TN neutral earthing systems:
For a 230/400 V supply in order to determine the breaking capacity of a 2 P MCB used as L + N (230 V) downstream a 2 P or 4 P circuit breaker use values indicated in the table for 230/240 V

	DPX 250			DPX 250			DPX 630		DPX 1250-1600	
	36 kA			70 kA			36 kA	70 kA	50 kA	70 kA
	≤ 100	160	250	≤ 100	160	250	160 to 630	160 to 630	630 to 1600	630 to 1600
	25	25	25	25	25	25	25	25	25	25
	25	25	25	25	25	25	25	25	20	20
	25	25	25	25	25	25	25	25	15	15
	25	25	20	25	25	20	20	20	15	15
	25	20	15	25	20	15	15	15	12,5	12,5
	20	15	15	20	15	15	15	15	12,5	12,5
	25	25	25	25	25	25	25	25	25	25
	25	25	25	25	25	25	25	25	20	20
	25	25	25	25	25	25	25	25	15	15
	25	25	20	25	25	20	20	20	15	15
	25	20	15	25	20	15	15	15	12,5	12,5
	20	15	15	20	15	15	15	15	12,5	12,5
	20	20	20	20	20	20	20	20	16	16
		20	20		20	20	20	20	16	16
		16	16		16	16	16	16	16	16
	30	30	30	30	30	30	30	30	30	30
	36	36	36	36	36	36	36	36	36	36
	36	36	36	36	36	36	30	30	30	30
	30	30	30	30	30	30	30	30	30	30
	36	36	36	36	36	36	36	36	36	36
		36	36		36	36	30	30	30	30
				50	50	50		50	50	50
				50	50	50		36	36	36
				70	70	70		70	70	70

	DPX 250						DPX 630		DPX 1250-1600	
	36 kA			70 kA			36 kA	70 kA	50 kA	70 kA
	≤ 100	160	250	≤ 100	160	250	160 to 630	160 to 630	630 to 1600	630 to 1600
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	45	36	30	45	36	30	30	30	25	25
	45	30	30	45	30	30	30	30	25	25
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	50	50	50	50	50	50	50	50	50	50
	45	36	30	45	36	30	30	30	25	25
	45	30	30	45	30	30	30	30	25	25
	50	50	50	50	50	50	32	32	32	32
		50	50		50	50	32	32	32	32
		50	50		50	50	32	32	32	32
	55	55	55	60	60	60	55	60	50	50
	55	55	55	60	60	60	55	60	50	50
		55	55		60	60	55	60	50	50
	55	55	55	60	60	60	55	60	50	50
	55	55	55	60	60	60	55	60	50	50
		55	55		60	60	55	60	50	50
				75	75	75		75	75	75
				75	75	75		75	75	75
				120	120	120		120	120	120

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

MCBs downstream	In (A)	Fuses upstream gG type Up to 160 A
DX³ 10000 - 16 kA Curves B, C & D	80	100
	100	100
	125	100
DX³ 25 kA Curves B & C	≤ 25	100
	32 to 80	100
	100 & 125	100
DX³ 25 kA Curve D	≤ 10	100
	16 to 80	100
	100 & 125	100
DX³ 36 kA Curve C	10 to 63	100
	80	100
DX³ 50 kA Curves B, C, D & MA	10 to 63	100

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

MCBs downstream	In (A)	Fuses upstream gG type Up to 160 A
DX³ 10000 - 16 kA Curves B, C & D	80	100
	100	100
	125	100
DX³ 25 kA Curves B & C	≤ 25	100
	32 to 80	100
	100 & 125	100
DX³ 25 kA Curve D	≤ 10	100
	16 to 80	100
	100 & 125	100
DX³ 36 kA Curve C	10 to 63	100
	80	100
DX³ 50 kA Curves B, C, D & MA	10 to 63	100

selectivity tables

MCBs/MCBs (in A) - MCCBs/MCBs (in kA)

Downstream MCBs	In (A)	Upstream MCBs: DX³ 25 kA, DX³ 50 kA, DX³ 10000 16 kA (80 & 100 A) Curve B							DX³ 25 kA, DX³ 36 kA, DX³ 50 kA, DX³ 10000 16 kA (80 à 125 A) Curve C							DX³ 25 kA, DX³ 50 kA, DX³ 10000 16 kA (80 à 125 A) Curve D						
		32	40	50	63	80	100	125	32	40	50	63	80	100	125	32	40	50	63	80	100	125
LR 6000 DX-E 6000 6 kA Curves B & C	≤ 4	128	160	200	252	1600	2100	2600	240	300	375	472	2500	3200	4000	384	480	600	756	3750	4800	6000
	6	128	160	200	252	800	1000	1300	240	300	375	472	1300	1600	2000	384	480	600	756	2000	2400	3000
	10	128	160	200	252	750	960	1200	240	300	375	472	1150	1450	1800	384	480	600	756	1750	2150	2700
	13	128	160	200	252	650	860	1000	240	300	375	472	1000	1300	1600	384	480	600	756	1500	2000	2400
	16	128	160	200	252	630	800	960	240	300	375	472	950	1200	1500	384	480	600	756	1400	1800	2200
	20		160	200	252	600	730	900	240	300	375	472	900	1100	1400	384	480	600	756	1350	1650	2100
	25			200	252	560	650	850	240	300	375	472	850	1000	1300	384	480	600	756	1300	1500	2000
	32			200	252	500	630	800		300	375	472	750	950	1200		480	600	756	1100	1450	1800
	40					460	560	700			375	472	700	850	1100			600	756	1000	1250	1650
	50					430	500	650				472	650	800	1000				756	950	1200	1500
	63						500	650					650	800	1000					950	1200	1500
DX 6000 10 kA DX-H 10000 25 kA Curves B, C & Z	≤ 4	1200	1500	2000	T	T	T	T	1200	1500	2000	T	T	T	T	1200	1500	2000	T	T	T	T
	6	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
	10	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
	13	400	600	1200	1500	2500	4000	6000	400	600	1200	1500	2500	4000	6000	400	600	1200	1500	2500	4000	6000
	16	300	500	700	1300	2000	3600	5500	300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
	20		400	500	1000	1600	3000	4000	300	400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
	25			500	800	1300	2400	3300	240	400	500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	32			500	600	1000	1800	2700		300	500	600	1000	1800	2700		480	600	756	1100	1450	2700
	40				600	800	1600	2400			400	600	800	1600	2400			600	756	1000	1250	2400
	50					800	900	1700				500	800	900	1700				756	950	1200	1700
	63						900	1200					650	900	1200					950	1200	1500
DX³ 10000 16 kA Curve C	80													600	750						1200	1500
	100														750							1500
	125																					
DX-D 6000 15 kA Curve D	≤ 4	1200	1500	2000	T	T	T	T	1200	1500	2000	T	T	T	T	1200	1500	2000	T	T	T	T
	6	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
	10	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
	16			1200	1300	2000	3600	5500	300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
	20				1000	1600	3000	4000		400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
	25					1300	2400	3300			500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	32						1800	2700				600	1000	1800	2700		480	600	756	1100	1450	2700
	40							2400					800	1600	2400			600	756	1000	1250	2400
	50													900	1700				756	950	1200	1700
	63														1200					950	1200	1500
DX³ 10000 16 kA Curve D	80																				1200	1500
	100																					1500
	125																					
DX³ 25 kA Curves B & C	≤ 6	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
	10	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
	16	300	500	700	1300	2000	3600	5500	300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
	20		400	500	1000	1600	3000	4000	300	400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
	25			500	800	1300	2400	3300	240	400	500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	32			500	600	1000	1800	2700		300	500	600	1000	1800	2700		480	600	756	1100	1450	2700
	40				600	800	1600	2400			400	600	800	1600	2400			600	756	1000	1250	2400
	50					800	900	1700				500	800	900	1700				756	950	1200	1700
	63						900	1200					650	900	1200					950	1200	1500
	80													600	750						1200	1500
	100														750							1500
	125																					
DX³ 25 kA Curves D & MA	≤ 6.3	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
	10	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
	12.5	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
	16			1200	1300	2000	3600	5500	300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
	20				1000	1600	3000	4000		400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
	25					1300	2400	3300			500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	32						1800	2700				600	1000	1800	2700		480	600	756	1100	1450	2700
	40							2400					800	1600	2400			600	756	1000	1250	2400
	50													900	1700				756	950	1200	1700
	63														1200					950	1200	1500
	80																				1200	1500
	100																					1500
	125																					
DX³ 36 kA Curve C	≤ 6	700	1200	1500	3000				700	1200	1500	3000	4000			700	1200	1500	3000			
	10	500	700	1000	1800				500	700	1000	1800	3000			500	700	1000	1800			
	16	300	500	700	1300				300	500	700	1300	2000			384	500	700	1300			
	20		400	500	1000				300	400	500	1000	1600			384	480	600	1000			
	25			500	800				240	400	500	800	1300			384	480	600	800			
	32			500	600					300	500	600	1000				480	600	756			
	40				600						400	600	800					600	756			
	50											500	800						756			
	63												650									
	80																					
DX³ 50 kA Curves B & C	10	500	700	1000	1800				500	700	1000	1800	3000			500	700	1000	1800			
	16	300	500	700	1300				300	500	700	1300	2000			384	500	700	1300			
	20		400	500	1000				300	400	500	1000	1600			384	480	600	1000			
	25			500	800				240	400	500	800	1300			384	480	600	800			
	32			500	600					300	500	600	1000				480	600	756			
	40				600						400	600	800					600	756			
	50											500	800						756			
	63												650									
DX³ 50 kA Curves D & Z	10		700	1000	1800				500	700	1000	1800	3000			500	700	1000	1800			
	16				1000				300	500	700	1300	2000			384	500	700	1300			
	20									400	500	1000	1600			384	480	600	1000			
	25										500	800	1300			384	480	600	800			
	32											600	1000				480	600	756			
	40												800					600	756			
	50																		756			
	63																					
DX³ MA 50 kA	≤ 4								700	1200	1500	3000	4000			700	1200	1500	3000			
	6.3								700	1200	1500	3000	4000			700	1200	1500	3000			
	10								500	700	1000	1800	3000			500	700	1000	1800			
	12.5								300	500	700	1300	2000			500	700	1000	1800			
	16								300	500	700	1300	2000			384	500	700	1300			
	25										500	800	1300			384	480	600	800			
	40												800					600	756			
	63																					

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

Upstream MCCBs															
DPX³ 160 16 kA, 25 kA, 36 kA, 50 kA						DPX³ 250 25 kA, 36 kA, 50 kA, 70 kA					DPX 250			DPX 630, DPX 1250/1600 DMX³ 2500/4000	
40	63	80	100	125	160	40	100	160	200	250	100	160	250	160 à 4000	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
5	5	5	5	T	T	5	T	T	T	T	T	T	T	T	
4.5	4.5	4.5	4.5	T	T	4	T	T	T	T	T	T	T	T	
-	-	4	4	T	T	-	5	T	T	T	5	T	T	T	
-	-	3	3	T	T	-	5	T	T	T	5	T	T	T	
-	-	3	3	5.5	5.5	-	4	T	T	T	4	T	T	T	
-	-	3	3	5	5	-	4	T	T	T	4	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
7.5	7.5	7	7	T	T	10	15	T	T	T	T	T	T	T	
7	7	7	7	T	T	7	10	T	T	T	T	T	T	T	
6	6	6	6	T	T	7	10	T	T	T	T	T	T	T	
5	5	5	5	T	T	5	8	T	T	T	8	T	T	T	
4.5	4.5	4.5	4.5	8.5	8.5	4	6	T	T	T	6	T	T	T	
-	-	4	4	7	7	-	5	T	T	T	5	T	T	T	
-	-	3	3	6	6	-	5	10	T	T	5	10	T	T	
-	-	3	3	5.5	5.5	-	4	8	T	T	4	8	T	T	
-	-	3	3	5	5	-	4	8	T	T	4	8	T	T	
-	-	-	-	5	6	-	4	T	T	T	-	8	T	T	
-	-	-	-	-	5	-	-	T	T	T	-	6	T	T	
-	-	-	-	-	3	-	-	T	T	T	-	3	8	T	
12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
7	7.5	7.5	7	T	T	10	15	T	T	T	T	T	T	T	
6	6	6	6	T	T	7	10	T	T	T	T	T	T	T	
5	5	5	5	T	T	5	8	T	T	T	8	T	T	T	
3.5	4.5	4.5	4.5	8.5	8.5	-	6	T	T	T	6	T	T	T	
-	4	4	4	7	7	-	5	T	T	T	5	T	T	T	
-	3	3	3	6	6	-	5	10	T	T	5	T	T	T	
-	-	3	3	5.5	5.5	-	4	8	T	T	4	8	T	T	
-	-	-	3	5	5	-	-	8	T	T	4	8	T	T	
-	-	-	-	5	6	-	-	T	T	T	-	8	T	T	
-	-	-	-	-	5	-	-	T	T	T	-	6	T	T	
-	-	-	-	-	3	-	-	-	T	T	-	3	7	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	15	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	10	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	8	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	6	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	10	T	T	
-	-	4	5	10	10	-	20	T	T	T	4	8	T	T	
-	-	3	5	10	10	-	15	T	T	T	4	8	T	T	
-	-	-	-	5	6	-	-	T	T	T	-	8	T	T	
-	-	-	-	-	5	-	-	T	T	T	-	6	T	T	
-	-	-	-	-	3	-	-	-	T	T	-	3	7	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	15	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	10	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	8	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	6	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	10	T	T	
-	-	4	5	10	10	-	20	T	T	T	4	8	T	T	
-	-	3	5	10	10	-	15	T	T	T	4	8	T	T	
-	-	-	-	5	6	-	4	T	T	T	-	8	T	T	
T	T	T	T	T	T	T	T	T	T	T	15	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	10	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	8	T	T	T	
36	T	T	T	T	T	T	T	T	T	T	6	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	10	T	T	
-	-	4	5	10	10	-	20	T	T	T	4	8	T	T	
-	-	-	5	10	10	-	15	T	T	T	4	8	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	10	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	8	T	T	T	
36	T	T	T	T	T	T	T	T	T	T	6	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	10	T	T	
-	-	4	5	10	10	-	20	T	T	T	4	8	T	T	
-	-	-	5	10	10	-	15	T	T	T	4	8	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	15	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	15	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	10	T	T	T	
36	T	T	T	T	T	T	T	T	T	T	6	T	T	T	
-	T	T	T	T	T	-	T	T	T	T	5	10	T	T	
-	-	-	5	10	10	-	-	T	T	T	4	8	T	T	

■ Breaking capacity in IT neutral earthing system

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

DX³ 10000 16 kA	1P/2P/3P/4P	4 kA
DX³ 25 kA	1P/2P/3P/4P	6.25 kA
DX³ 36 kA	2P/3P/4P	9 kA
DX³ 50 kA	1P/2P/3P/4P	12.5 kA

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

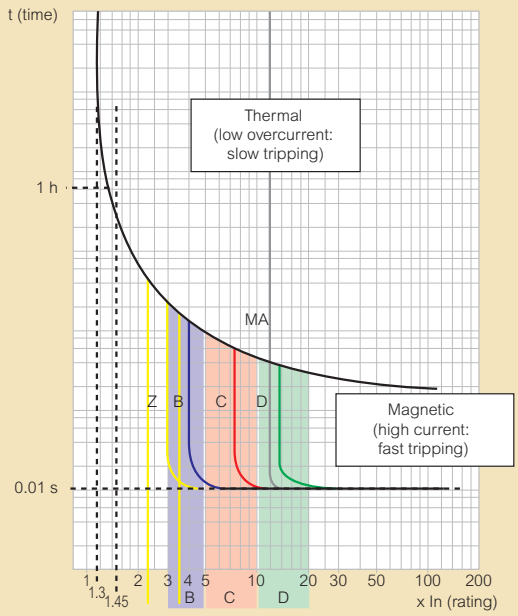
	1P/2P/3P/4P 230/400 VA MCBs			
	DX³ 10000 16 kA	DX³ 25 kA	DX³ 36 kA	DX³ 50 kA
Icn1	16000 A	25000 A	36000 A	50000 A
Ui	500 V	500 V	500 V	500 V

Icn 1: 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
• DX³ 80 to 125 A	70	50
DX³ 25 kA ≥ 32 A (C curve) ≥ 16 A (D curve) DX³ 36 kA, DX³ 50 kA and add-on modules	50	35
• Auxiliaries	2.5	2.5
Auto. terminals connection cross-section • DNX³ and DX³ Ph + N	4	4

■ MCB tripping curves



Thermal tripping at 30°C ambient temperature
In = nominal current (rating) of the MCB

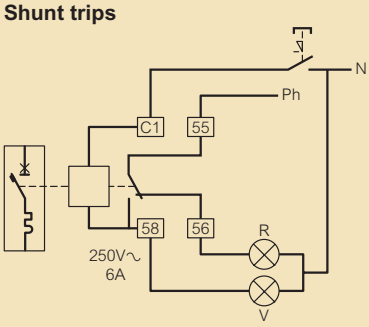
Curves	Magnetic threshold settings	
Z(1)	2.4 to 3.6 In	
B	3 to 5 In	
C	5 to 10 In	
D	10 to 14 In	(10 to 20 acc. to the stds)
MA	12 to 14 In	

(1) On request, see the catalogue of made-to-measure solutions

■ 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=

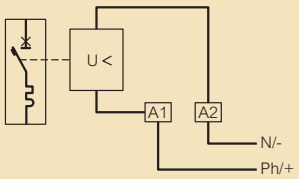
Equipped with a signalling contact which indicates tripping of the shunt trip and automatically breaks the coil.
Min. and max. voltage: 0.7 to 1.1 Un
Tripping time: less than 20 ms
Power consumption: at 1.1 x 48 V = 121 VA
at 1.1 x 415 V = 127 VA
Impedance: 12 to 48 V = 23 Ω
110 to 415 V = 1640 Ω

Consumption:

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

Undervoltage releases

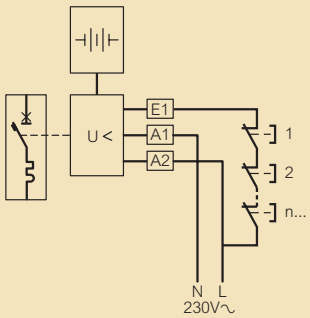
Activation voltage ≥ 0.55 Un
Tripping time: 100 to 400 ms ± 10% (adjustable)
Power consumption: 24 VA and =: 0.1 VA
48 VA and =: 0.2 VA
230 V±: 1 VA



Nominal voltage:
24 and 48 VA 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

■ 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:

• In residential properties, on specialised cooker or hob circuits and specialised washing machine circuits (NF C 15-100).

• In other installations, on circuits where class 1 equipment may produce fault currents with DC components, such as variable speed drives with frequency inverter, etc.

Hpi type ~ Hpi - 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)

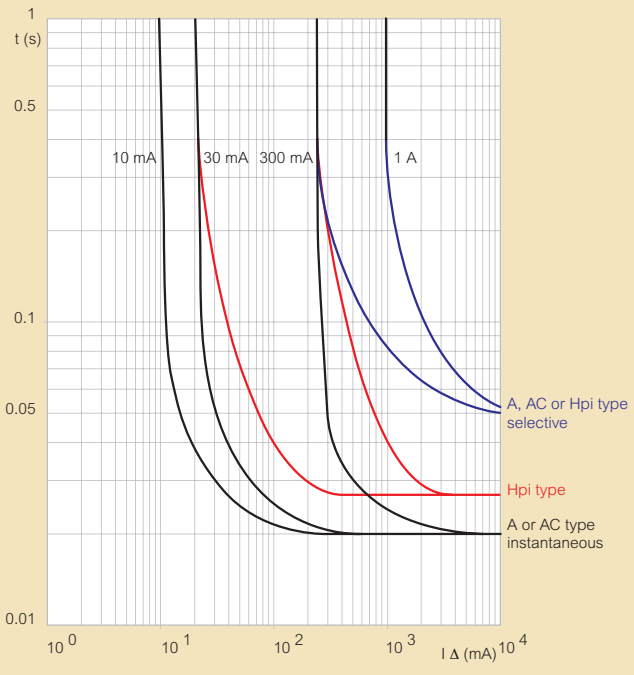
- On sites with very long lines

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

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

DX³ add-on modules used with an MCB		IΔm
DX³ (1 mod./pole)	25 kA ≤ 25 A (B, C, Z curves) 25 kA ≤ 10 A (D, MA curves)	6000 A
DX³ (1.5 mod./pole)	10000 16 kA (80 to 125 A) 25 kA ≥ 32 A (B, C, Z curves) 25 kA ≥ 12.5 A (D, MA curves) 36 kA 50 kA	30000 A

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