

DX³ RCBOs

RCBOs compact for AC applications upto 32 A, 6 kA



DX³ RCD add on module

For 125 A



Technical characteristics p. 46-51

Pack	Cat.Nos	DX ³ RCBOs, 2 pole 240 V~	
		ISI marked as per IEC 61009 Integrated label holder Ergonomic design Color coded On/Off indication on dolly Front face indication for earth leakage fault IP 20 protected terminals 35 sq mm terminals Sliding shutters	
		AC Type	
		30 mA	
		Nominal rating In (A)	Number of modules
1/32	4113 90	6	2
1/32	4113 91	10	2
1/32	4113 92	16	2
1/32	4113 93	20	2
1/32	4113 94	25	2
1/32	4113 95	32	2
		300 mA	
1/32	4113 97	6	2
1/32	4113 98	10	2
1/32	4113 99	16	2
1/32	4114 00	20	2
1/32	4114 01	25	2
1/32	4114 02	32	2
		HPI Type	
		30 mA	
1/32	4114 15	25	2
1/32	4114 16	32	2

Pack	Cat.Nos	DX ³ RCBOs, 4 pole 415 V~	
		Complies to per IEC 61009 Integrated label holder Ergonomic design Color coded On/Off indication on dolly Front face indication for earth leakage fault IP 20 protected terminals 35 sq mm terminals Sliding shutters	
		AC Type	
		30 mA	
		Nominal rating In (A)	Number of modules
1/16	4111 85	10	4
1/16	4111 86	16	4
1/16	4111 87	20	4
1/16	4111 88	25	4
1/16	4111 89	32	4
		300 mA	
1/16	4112 04	10	4
1/16	4112 05	16	4
1/16	4112 06	20	4
1/16	4112 07	25	4
1/16	4112 08	32	4
		A Type	
		30 mA	
1/16	4112 33	10	4
1/16	4112 34	16	4
1/16	4112 35	20	4
1/16	4112 36	25	4
1/16	4112 37	32	4
		300 mA	
1/16	4112 38	10	4
1/16	4112 39	16	4
1/16	4112 40	20	4
1/16	4112 41	25	4
1/16	4112 42	32	4

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Conform to IEC 60947-2
 AC type : detect AC components faults
 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
 Easy & fast association mechanism
 Terminal cover for locking
 70 sq mm terminals

Pack	Cat.Nos	DX ³ RCD	
		2 pole 240 V~, AC Type	
		Nominal rating In (A)	Number of modules
1	4105 68	125 A	4
1	4105 69	125 A	4
1	4105 71	125 A	4
		4 pole 415 V~, AC Type	
		30 mA	
1	4106 25	125 A	4
1	4106 26	125 A	4
1	4106 29	125 A	4
		2 pole 240 V~, HPI type	
		30 mA	
1	4105 78	125 A	6
1	4105 79	125 A	6
1	4105 82	125 A	6
		Four pole 415 V~, HPI type	
		30 mA	
1	4106 38	125 A	6
1	4106 39	125 A	6
1	4106 42	125 A	6

DX³ RCDS

technical data for DX³ RCDs

Specification	RCCB		
	Type AC	Type A-S	Type Hpi
	IS 12640 (part 1) 2008 IEC 61008 - 1	IEC 61008 - 1 EN 61008 - 1	EN 61008 - 1 IEC 61008 - 1
No. of modules			
- Double pole	2	2	2
- Four pole	4	4	4
Electrical characteristics			
Nominal rating I_n (A)			
- Double pole	25, 40, 63, 80, 100	63, 80	25, 40, 63, 80
- Four pole	25, 40, 63, 80, 100	25, 40, 63, 80	25, 40, 63, 80
Rated sensitivity (mA)			
- Double pole	30, 100, 300	300	30
- Four pole	30, 100, 300	300	30
Rated frequency (Hz)	50 / 60	50 / 60	50 / 60
Rated operating voltage U_e (V AC)			
- Double pole	230	230	230
- Four pole	230 / 415	400	400
Minimum operating voltage (V AC)	12	12	12
Minimum operating voltage for test button (V AC)⁽¹⁾			
- Double pole	170	170	170
- Four pole	196	196	196
Rated insulation voltage U_i (V AC)			
- Double pole	250	250	250
- Four pole	500	500	500
Rated impulse withstand voltage U_{imp} (kV)	6	6	6
Breaking capacity	As per IS 12640 (part 1) 2008, IEC 61008 - 1		
Rated making & breaking capacity (I_m)			
- Up to 40 A	500 A	-	500 A
- From 63 A and above	10 x I _n	630 A	630 A
Rated residual making & breaking capacity (I_{Δm})			
- Up to 40 A	1000 A	-	1000 A
- From 63 A and above	1000 A	1000 A	1000 A
Rated conditional short circuit current (I_{nc})	10000 A	10000 A	10000 A
Rated conditional residual short circuit current (I_{Δc})	10000 A	10000 A	10000 A
Rated service short circuit capacity (I_{cs})	-	-	-
Rated short circuit capacity (I_{cn})	-	-	-
Operating temperature (°C)	- 25 to 70	- 25 to 70	- 25 to 70
Endurance (0.C cycle)			
- Mechanical	20,000	20,000	20,000
- On load at $i_n \times \cos \phi = 0.9$	10,000	10,000	10,000
- Via test button	2,000	2,000	2,000
- By fault current (sensitivity)	2,000	2,000	2,000
Testing	By pressing test button grey dolly will come to OFF position It is recommended to test RCCB once a month	By pressing test button grey dolly will come to OFF position It is recommended to test RCCB once a month	By pressing test button, grey dolly will come to OFF position It is recommended to test RCCB once a month
Fault indication			
- Earth leakage	Grey dolly will come to OFF position	Grey dolly will come to OFF position	Grey dolly will come to OFF position
- Overload and shortcut	-	-	-
Resetting	Switch on grey dolly	Switch on grey dolly	Switch on grey dolly
Terminals			
- Rigid	1 - 35 sq. mm	1 - 35 sq. mm	1 - 35 sq. mm
- Flexible	1 - 25 sq. mm	1 - 25 sq. mm	1 - 25 sq. mm
Type of protection			
Earth leakage	•	•	•
Overload	-	-	-
Short circuit	-	-	-
Add on electrical accessories*			
Auxiliary	•	•	•
Fault signaling	•	•	•
Shunt trip	•	•	•
Under voltage	•	•	•
Over voltage	•	•	•

* - Accessories are mounted on the left hand side of the product.
At a time a maximum of three accessories can be mounted.

⁽¹⁾ - Between phase and neutral

RCBO				
Type AC	Type AC - 2 & 4 modules	Type Hpi	Type A	
IS 12640 (part 2) 2008 IEC 61009 - 1	NFC 61 - 410 EN 61009 - 1 IEC 61009 - 1	EN 61009 - 1 IEC 61009 - 1	EN 61009 - 1 IEC 61009 - 1	
4	2	2	-	
7	4	-	4	
6, 10, 16, 25, 32, 40, 63	6, 10, 16, 20, 25, 32	25, 32, 40	25, 32, 40	
16, 25, 32, 40, 63	10, 16, 20, 25, 32	-	-	
30, 100, 300	30, 300	30	30, 300	
30, 100, 300	-	-	-	
50	50	50 / 60	50 / 60	
230	230	230	-	
415	415	-	415	
12	12	12	12	
170	170	170	-	
196	196	-	196	
500	250	250	-	
500	500	-	500	
4	6	6	6	
As per IS 12640 (part 2) 2008, IEC 61009 - 1				
10000 A	6000 A	6000 A	6000 A	
10000 A	-	-	-	
10000 A	3000 A	3000 A	3000 A	
10000 A	-	-	-	
-	-	-	-	
-	-	-	-	
7500 A	6000 A	6000 A	6000 A	
10000 A	6000 A	6000 A	6000 A	
- 25 to 70	- 25 to 70	- 25 to 70	- 25 to 70	
20,000	20,000	20,000	20,000	
10,000	10,000	10,000	10,000	
1,000	1,000	1,000	1,000	
1,000	1,000	1,000	1,000	
By pressing test button, black dolly will come to OFF position It is recommended to test RCBO once a month	By pressing test button, black dolly will come to OFF position It is recommended to test RCBO once a month	By pressing test button, black dolly will come to OFF position It is recommended to test RCBO once a month	By pressing test button, black dolly will come to OFF position It is recommended to test RCBO once a month	
Black & blue dolly will come to OFF position	Black dolly will come to OFF position & blue indicator will appear on front face window	Black dolly will come to OFF position & blue indicator will appear on front face window	Black dolly will come to OFF position & blue indicator will appear on front face window	
Black dolly will come to OFF position	Black dolly will come to OFF position	Black dolly will come to OFF position	Black dolly will come to OFF position	
Switch on black dolly	Switch on black dolly	Switch on black dolly	Switch on black dolly	
1 - 35 sq. mm	0.75 - 16 sq. mm	0.75 - 16 sq. mm	0.75 - 16 sq. mm	
1 - 25 sq. mm	0.75 - 10 sq. mm	0.75 - 10 sq. mm	0.75 - 10 sq. mm	
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