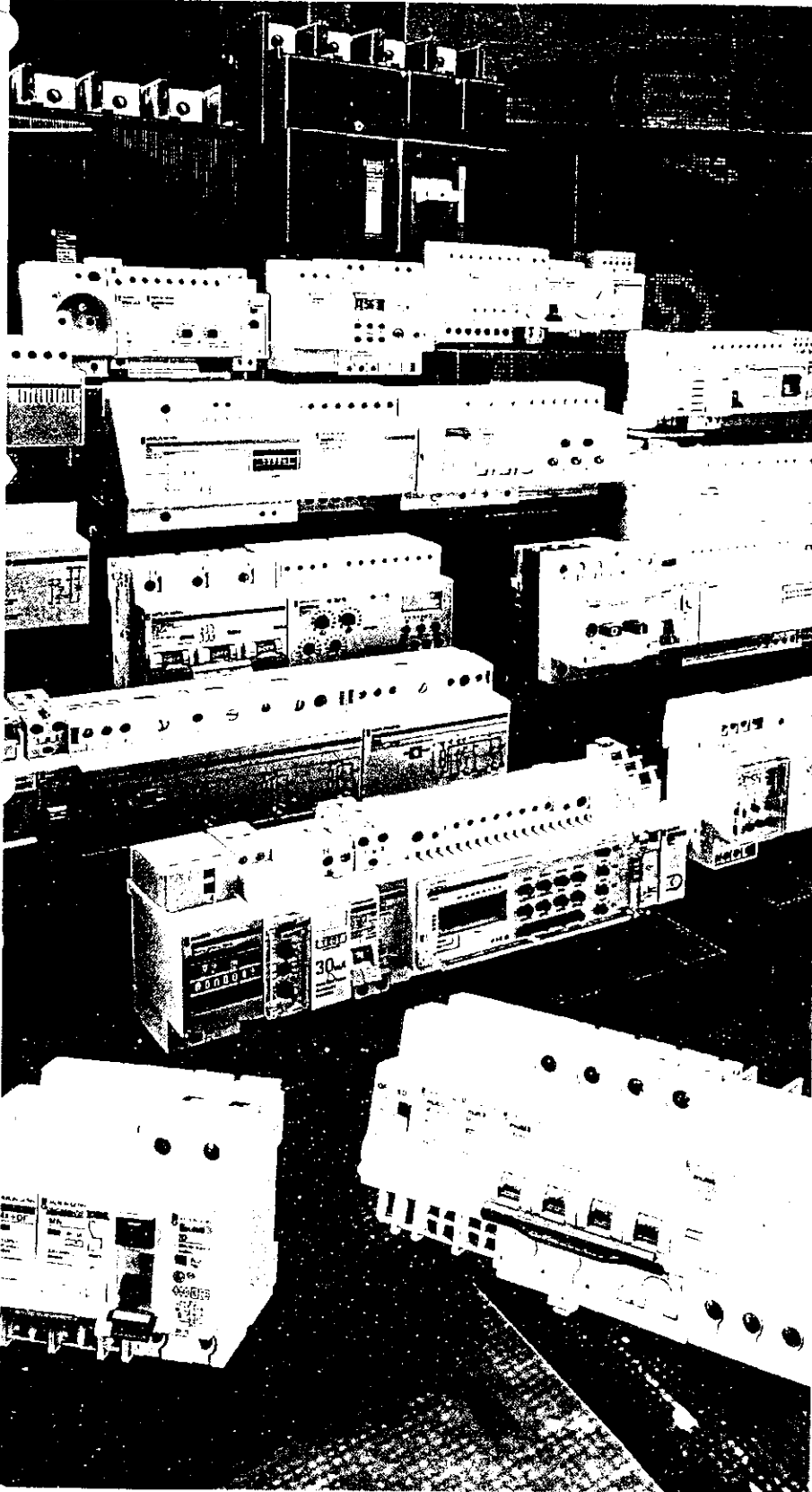


LV final distribution products 1 to 100 A

Multi 9 system
Asia catalogue



 **MERLIN GERIN**

GRUPE SCHNEIDER

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selection table for multi 9 circuit breakers

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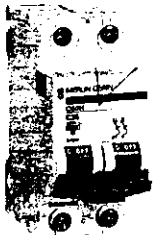
selection table

standard	rating (A)	voltage (V)	type	curves	breaking capacity (kA)				
					4,5	6	10	25	50
IEC 898	6 to 40	230/400	C60a	B/C					
	1 to 63	230/400	C60N	B/C/D					
	1 to 63	230/400	C60H	B/C/D					
IEC 947-2	1 to 40	127/250	C32H - DC						
	10 to 100	240/415	NC100H	B/C/D					
	10 to 63	240/415	NC100L	C/D					
	10 to 63	240/415	NC100LH	C					
	1.6 to 63	240/415	NC100LMA						



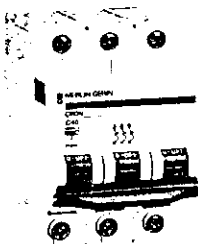
type	width in mod. of 9 mm	In (A)	cat. No.		
			B curve	C curve	D curve
1P	2	1	24045	24395	24625
		2	24046	24396	24626
		3	24047	24397	24627
		4	24048	24398	24628
		6	24049	24399	24629
		10	24050	24401	24630
		16	24051	24403	24632
		20	24052	24404	24633
		25	24053	24405	24634
		32	24054	24406	24635
		40	24055	24407	24636
		50	24056	24408	24637
		63	24057	24409	24638

1 protected pole



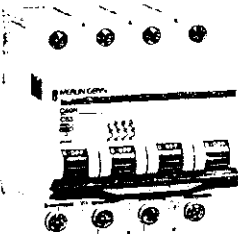
type	width in mod. of 9 mm	In (A)	cat. No.		
			B curve	C curve	D curve
2P	4	1	24071	24331	24653
		2	24072	24332	24654
		3	24073	24333	24655
		4	24074	24334	24656
		6	24075	24335	24657
		10	24076	24336	24658
		16	24077	24337	24660
		20	24078	24338	24661
		25	24079	24339	24662
		32	24080	24340	24663
		40	24081	24341	24664
		50	24082	24342	24665
		63	24083	24343	24666

2 protected poles



type	width in mod. of 9 mm	In (A)	cat. No.		
			B curve	C curve	D curve
3P	6	1	24084	24344	24667
		2	24085	24345	24668
		3	24086	24346	24669
		4	24087	24347	24670
		6	24088	24348	24671
		10	24089	24349	24672
		16	24090	24350	24674
		20	24091	24351	24675
		25	24092	24352	24676
		32	24093	24353	24677
		40	24094	24354	24678
		50	24095	24355	24679
		63	24096	24356	24680

3 protected poles



type	width in mod. of 9 mm	In (A)	cat. No.		
			B curve	C curve	D curve
4P	6	1	24097	24357	24681
		2	24098	24358	24682
		3	24099	24359	24683
		4	24100	24360	24684
		6	24101	24361	24685
		10	24102	24362	24686
		16	24103	24363	24688
		20	24104	24364	24689
		25	24105	24365	24690
		32	24106	24366	24691
		40	24107	24367	24692
		50	24108	24368	24693
		63	24109	24369	24694

4 protected poles

Application

Control and protection of circuits against overloads and short-circuits

- in domestic installations
- in commercial and industrial electrical distribution systems
- D curve : more particularly adapted for installations with high transient currents (LV/LV transformers, motors, ...)

Technical data

■ current rating :

1 to 63 A

■ voltage rating : 230/400 V AC

■ breaking capacity :

□ Icn ultimate breaking capacity (O-CO cycle) : IEC 898

rat. (A)	type	volt. (V)	breaking capacity (A)
1 to 63 A	1P	230/240	6000
63 A	2, 3, 4P	400/415	6000

□ Ics = Icn = 6 kA

□ Icu ultimate breaking capacity (O-CO cycle) : IEC 947-2

rat. (A)	type	volt. (V)	breaking capacity (A)
1 to 63 A	1P	130	20000
		230/240	10000
	2, 3, 4	400/415	3000
		230/240	20000
		400/415	10000
		440	6000

■ fast closing contacts.

■ number of operating cycles (O-C) : 20000.

■ tripping characteristics :

B curve : the magnetic releases operate between 3 and 5 In

C curve : the magnetic releases operate between 5 and 10 In

D curve : the magnetic releases operate between 10 and 14 In

■ impulse withstand voltage (U imp.) : 6 kV.

■ tropicalization : treatment 2 (relative humidity 95 % at 55°C).

■ weight (g) :

type	1P	2P	3P	4P
	110	220	340	450

■ connections :

tunnel terminals for rigid cables up to : 25 mm² for rating ≤ 25 A

35 mm² for rating 32 to 63 A

■ approvals :

Marine : see page 67

■ installation : in all enclosures designed for Multi 9 equipment.

Auxiliaries : page 16

Accessories : page 18

Vigi module : page 23

Tripping curves : page 58

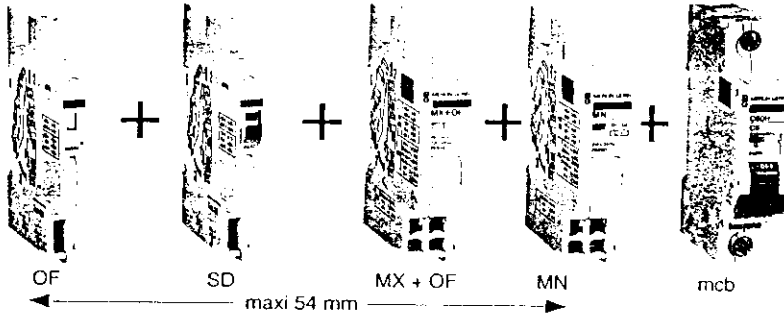
Dimensions : pages 61

Derating : page 63

Application guide : page 65

electrical auxiliaries

C60a - N - H



C60 auxiliaries enable remote tripping or remote indication of the ON/OFF positions of an mcb.
They are mounted by clipping on the left hand side of the mcb or mcb/rcd.
In addition to the above Vigi module can always be assembled on the right hand side of an mcb.

Remote tripping

- **MX + OF shunt trip release**
 - enables the mcb to be tripped from a remote location
 - allows remote indication of the "OFF" or "ON" position of the mcb by using the same voltage as the one feeding the shunt trip (terminals 12 and 14)
 - is equipped with a cut-off switch in series with the coil

□ all shunt trip release devices are equipped with a red flag trip indicator

■ MN undervoltage release

- enables miniature circuit breakers to be tripped either when the voltage drops or by operation of the "OFF" push button of a remote device tripping between 70 and 35 % U_n , closing ≥ 85 % U_n .
- prevents the mcb from being switched "ON" again if the undervoltage release supply is not present

□ **MN[S] undervoltage release, time delayed** allows micro breaks ≤ 200 ms without effects
□ all under voltage releases are equipped with a red flag indicator

■ consumption of releases :

	(V)	(W or VA)
MX	415 V AC pickup	120
	220/240 V AC pickup	50
	110/130 V AC pickup	200
	110/130 V DC pickup	10
	48 V CA - DC pickup	22
MN	24 V CA - DC pickup	120
	220/240 V AC hold	4,1
	48 V AC hold	4,3
MN[S]	48 V DC hold	2,0
	220/240 V AC hold	4,1

remote indication

■ SD alarm switch

- an indication device which monitors the tripping of an mcb
- This device offers the following
 - a red flag trip indicator
 - ability to reset without closing the mcb
 - test function

■ OF auxiliary switch

- a changeover switch which acts as an indicating or control device to monitor the "ON" or "OFF" positions of an mcb

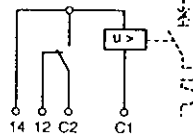
breaking capacity of contacts

voltage (V)	(A)
415 V AC	3
≤ 240 V AC	6
130 V DC	1
≤ 48 V DC	2
≤ 24 V DC	6

■ connection : screw clamp terminal for 1 cable 2,5 mm² (or 2 x 1,5 mm²)

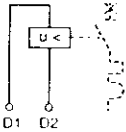
MX + OF shunt trip release

width in mod. of 9 mm	voltage	cat. No.
2	220 to 415 V AC	26946
	110 to 130 V AC	
	48 to 130 V AC	26947
	48 V DC	
	24 V AC and DC	26948



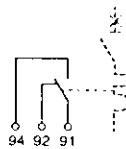
MN undervoltage release

width in mod. of 9 mm	voltage	cat. No.
Instantaneous	220/240 V AC	26960
	48 V AC	
	48 V DC	26962
time delayed	0,5 s	26963
	220/240 V AC	



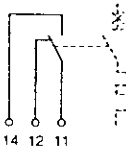
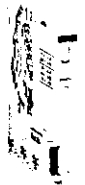
SD alarm switch

width in mod. of 9 mm	voltage	cat. No.
1		26927



OF auxiliary switch

width in mod. of 9 mm	voltage	cat. No.
1		26924

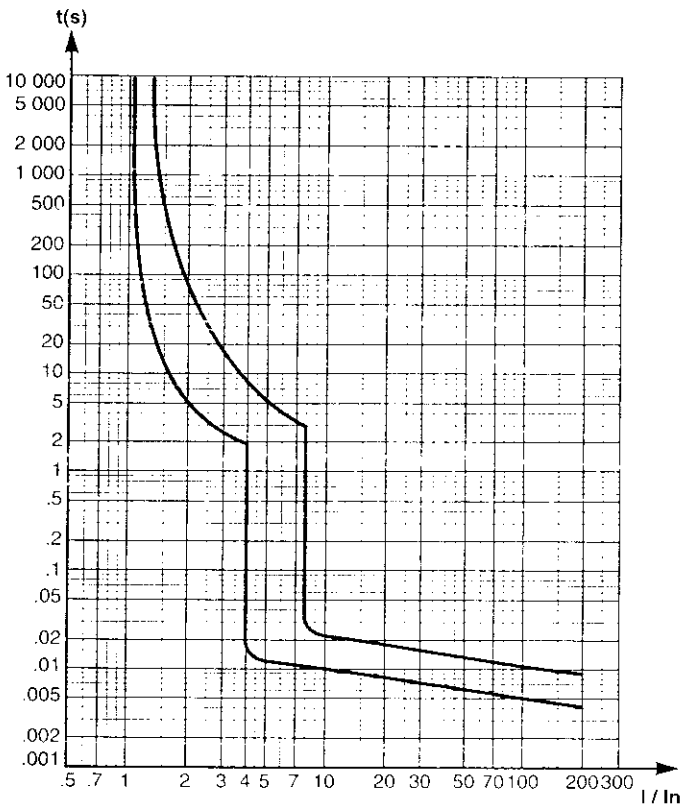


Dimensions : page 61

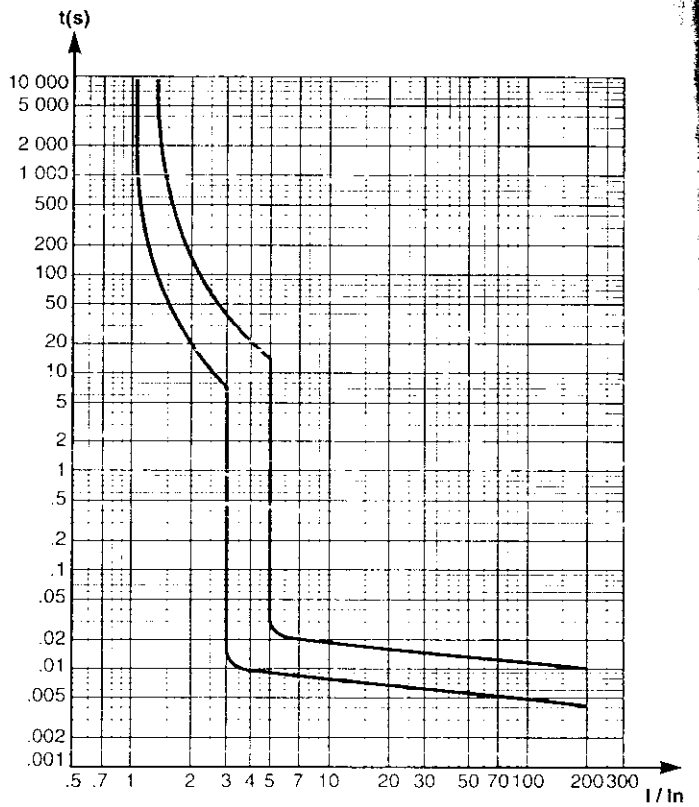
Application guide : page 68

IEC 898

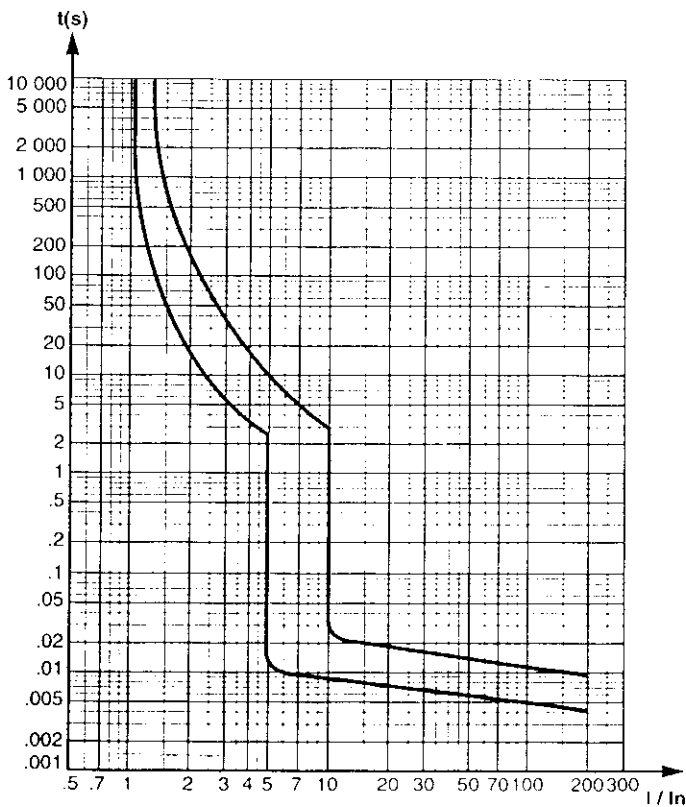
C32H-DC / U curve



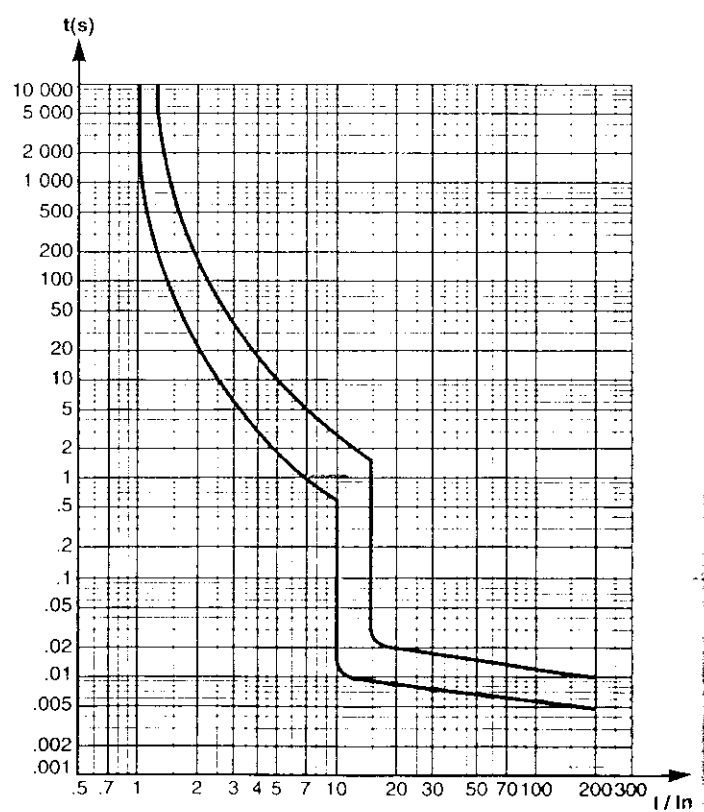
C60a, N, H - XC40 / B curve



C60a, N, H - XC40 - TC16 / C curve



C60N, H / D curve

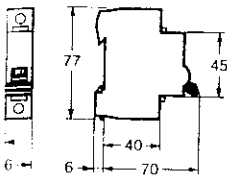


C32H-DC/C60N, H, L NC100H, L, LH/NC125H

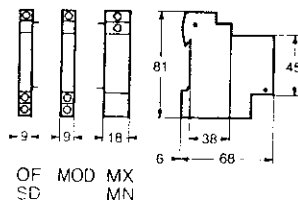
technical data
dimensions

C32H-DC

Circuit breakers

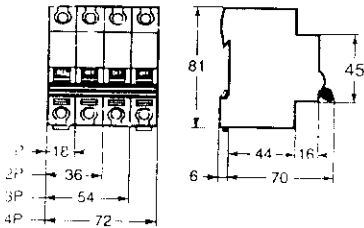


Auxiliaries

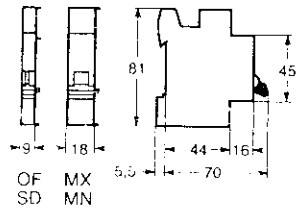


C60N, H

Circuit breakers

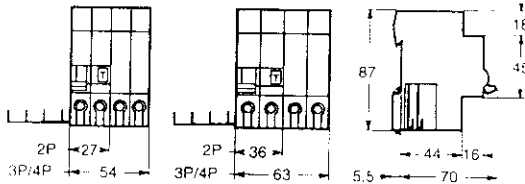


Auxiliaries

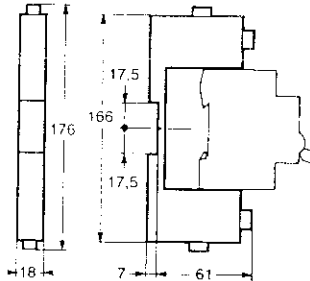


Vigi module C60
≤ 25 A

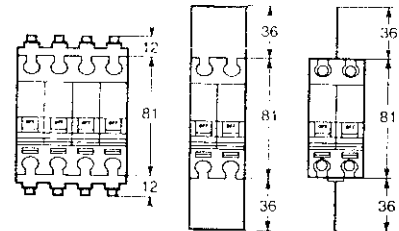
Vigi module C60
≤ 63 A



Accessories
plug-in base

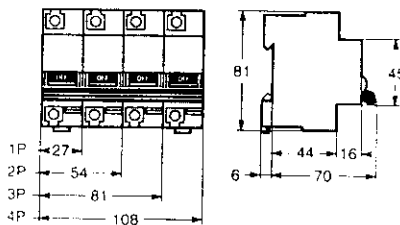


Terminal screw shield

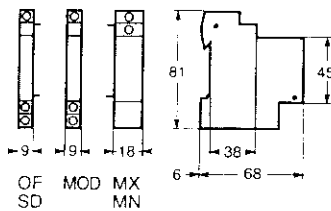


NC100H, L, LH and NC125H

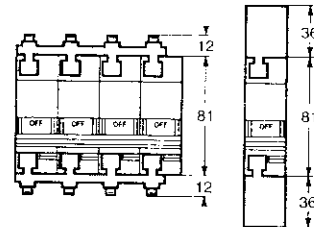
Circuit breaker



Auxiliaries



Terminal screw shield



Vigi module NC100
≤ 63 A

Vigi module NC100
≤ 100 A

Vigi module NC100/NC125 with separate toroid

