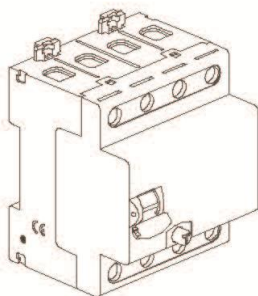


**Дефектнотокова защита Legrand 4P тип AC 25 A, 300 mA, 4P,
10 kA, LR**



R.C.C.B.'s four-pole LR™

Cat. N°(s) : 6021 46 / 47 / 49 / 50 / 52 / 53 / 94 / 95



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1. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Symbol:



Technology:

. Electromagnetic residual current operating by sensitive relay

Product range:

. Four pole - 4 module (4 x 17,8 mm)
. Version with neutral on right side

Rated current:

25 / 40 / 63 A

Sensitivity:

30 mA / 100 mA / 300 mA

Type:

. AC (residual sinusoidal alternating current)
. A (residual alternating current with a DC component)

Rated voltage / Frequency:

. 400 V ~ - 50/60 Hz

Insulation voltage :

. $U_i = 500$ V

Operation at 400Hz:

. Do not operate

Dielectric strength :

. 2000 V - 50 Hz

Insulation resistance :

. 2 M Ω

Pollution degree :

. 2

Rated residual breaking capacity :

. $I_{\Delta m} = 1000$ A according to EN/IEC 61008-1

1. ELECTRICAL AND MECHANICAL CHARACTERISTICS (continued)

Rated making and breaking capacity :

According to EN/IEC 61008-1

$I_n = 25 / 40$ A : $I_m = 500$ A

$I_n = 63$ A : $I_m = 630$ A

Rated conditional short-circuit current :

. $I_{nc} = 10$ kA according to EN/IEC 61008-1

Rated conditional residual short-circuit current :

. $I_{\Delta c} = 10$ kA according to EN/IEC 61008-1

Ambient working temperature :

. -25°C / + 40°C

Ambient storage temperature :

. - 40°C / + 70°C

Insulation against an impulse voltage:

. $U_{imp} = 6$ kV

Working positions :



Total dissipated power :

. By device loaded at I_n

$I_{\Delta n}$	25 A	40 A	63 A
30 mA, 25 and 40 A, type A and AC	11 W	24 W	—
All others :	8.5 W	14.5 W	36.5 W

Protection against unwanted tripping :

. 0.5 μ s/100 kHz ring wave : 200A

. 8/20 μ s surge current (types A and AC) : 250 A

Mechanical and electrical endurance :

. According to EN/IEC 61008-1 :

- 20 000 operations without load

- 10 000 operations with load (under $I_n \cos \phi 0.9$)

- 1000 operations by test

- 1000 operations by earth fault current

1. ELECTRICAL AND MECHANICAL CHARACTERISTICS (continued)

Limit voltages for test operation :

- . Rated voltage for operation : 400 V (test is connected between pole n°2 and pole n°3)
- . Limit voltages :

I _{Δn}	type	U mini	U maxi
30 mA	A and AC	195 V *	440 V
100 mA	AC	230 V	440 V
300 mA	AC	215 V	440 V

* Operate in 230 V triphase network

Protection degree :

- . Terminals protection against touching : IP20 (connected device)
- . Front face protection against touching : IP40
- . Class II referred to metallic parts
- . Protection against shocks : IK04

Isolating distance (distance between contacts) :

- . Handle in open position (OFF) :
 - Neutral pole : over 4,5 mm
 - Phase pole : over 5,5 mm

Closing and opening forces by handle operation :

- . 4.2 kg at closing (every rated currents)
- . 1.3 kg at opening (every rated currents)

Heat and fire resistance :

- . Self extinguishing (glow wire test) :
 - Base, Top and Test : 960°C
 - Handle : 750°C

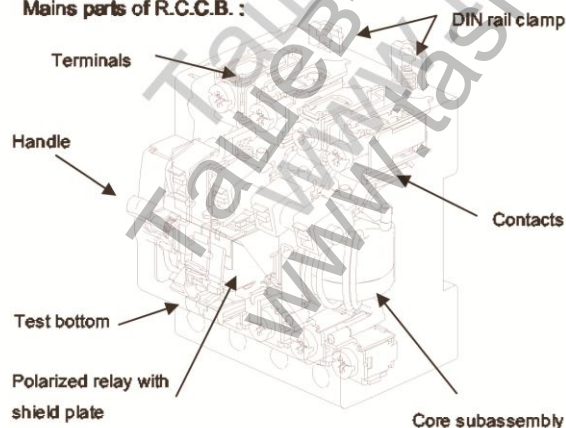
Average weight per item :

0.38 kg

Volume and quantity when packed :

	Volume	Packaging
For all rated currents	0.7 dm ³	par 1

Main parts of R.C.C.B. :



2. INSTALLATION

Fixing :

- . On symmetric rail EN 50.022 or DIN 35

Supply :

- . From the top or the bottom

Connection :

- . Terminals with release type captive screw
- . Alignment and spacing of terminals allowing busbar connection with other products of the same range
- . Terminal depth : 14 mm
- . Terminal capacity : 60 mm²
- . Max acceptable wire size :
 - 35 mm² flexible cables
 - 50 mm² rigid cables
- . Screw head : mixed, slotted and phillips/pozidriv n°2

Tightening torque :

- . Minimum / Maximum : 1,2 Nm / 3,5 Nm
- . Recommended : 2,5 Nm

Wire :

	Without ferrule	With ferrule
Rigid cables	1 x 0,75 à 50 mm ² ou 2 x 0,75 à 16 mm ²	-----
Flexible cables	1 x 0,75 à 35 mm ² ou 2 x 0,75 à 16 mm ²	1 x 0,75 à 25 mm ²

Wiring accessories :

- . Supply busbar (réf. 049 44/45)
- . Terminal screw covers (réf. 044 44)
- . Lexicic line distributor (réf. 37 316/317) + wires

Tools required :

- . For terminals :
 - 5,5 mm or pozidriv n°2 screwdriver recommended
- . For fixing :
 - 5,5 mm recommended screwdriver

Sealing :

- . Possible in open or closed position

Locking :

- . Possible with support for padlock (ref. 044 42)

Installation software :

- . XL PRO

Auxiliaries list :

- . No auxiliary allowed

3. STANDARDS

Compliance with standards :

- . NF EN 61008-1 / IEC 61008-1
- . EN/IEC 60 529 (IP)
- . EN 50 102 (IK)

4. RESPECT OF ENVIRONMENT

Compliance with European Union Rules :

. Conformity with directive 2002/95/CE of 27/01/03 called « RoHS » that provides interdiction of dangerous material like lead, mercury, cadmium, hexavalent chrome, retarding of polybromobiphenyls (PBB) and polybromodiphenylethers (PBDE) bromed flame from July 2006 the 1st.

. Conformity with directive 91/338/CEE of 18/06/91 and decree 94-647 of 27/07/94.

Plastic material :

. Enclosure plastic parts without halogen :

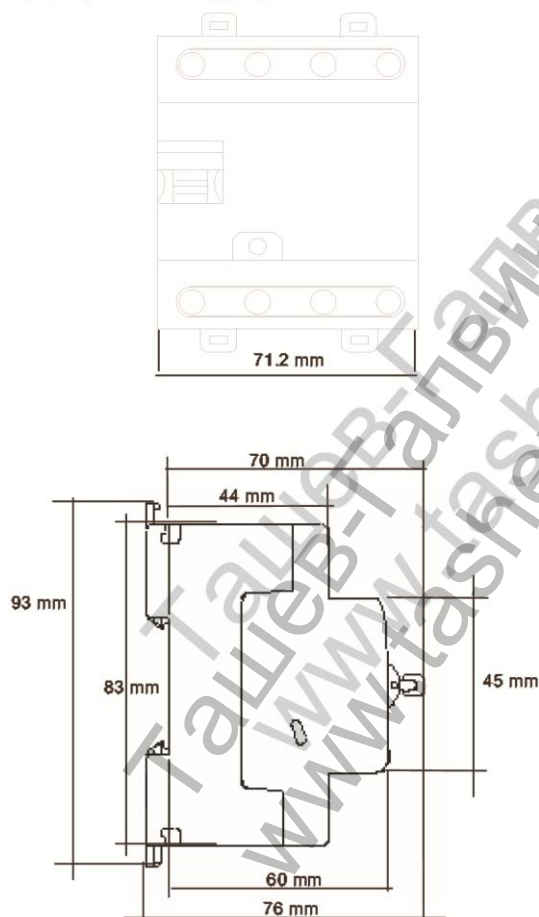
- Base, Top and Test : PA6
- Handle : PBT

. Plastic parts marking according to ISO 11469 and ISO 1043

Packaging :

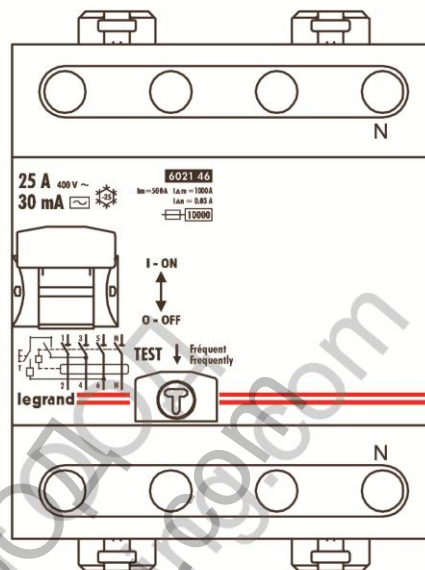
. Packing design and manufacture according to decree 98-638f 20/07/98 and directive 94/62/CE

5. OVERALL DIMENSIONS



6. MARKING

Front face marking : by permanent pad printing.



7. DERATING

No derating for R.C.C.B. according to ambient temperature between -25°C et +40°C.

8. ASSOCIATION WITH UPSTREAM PROTECTION

Protection against overloads :

. R.C.C.B. must be protected (upstream or downstream) against overloads by a m.c.b. or a fuse at maximum with the same rate.

Protection against short-circuits :

. R.C.C.B. must be protected (upstream) against short-circuits by a m.c.b. or a fuse according to the hereunder tables.

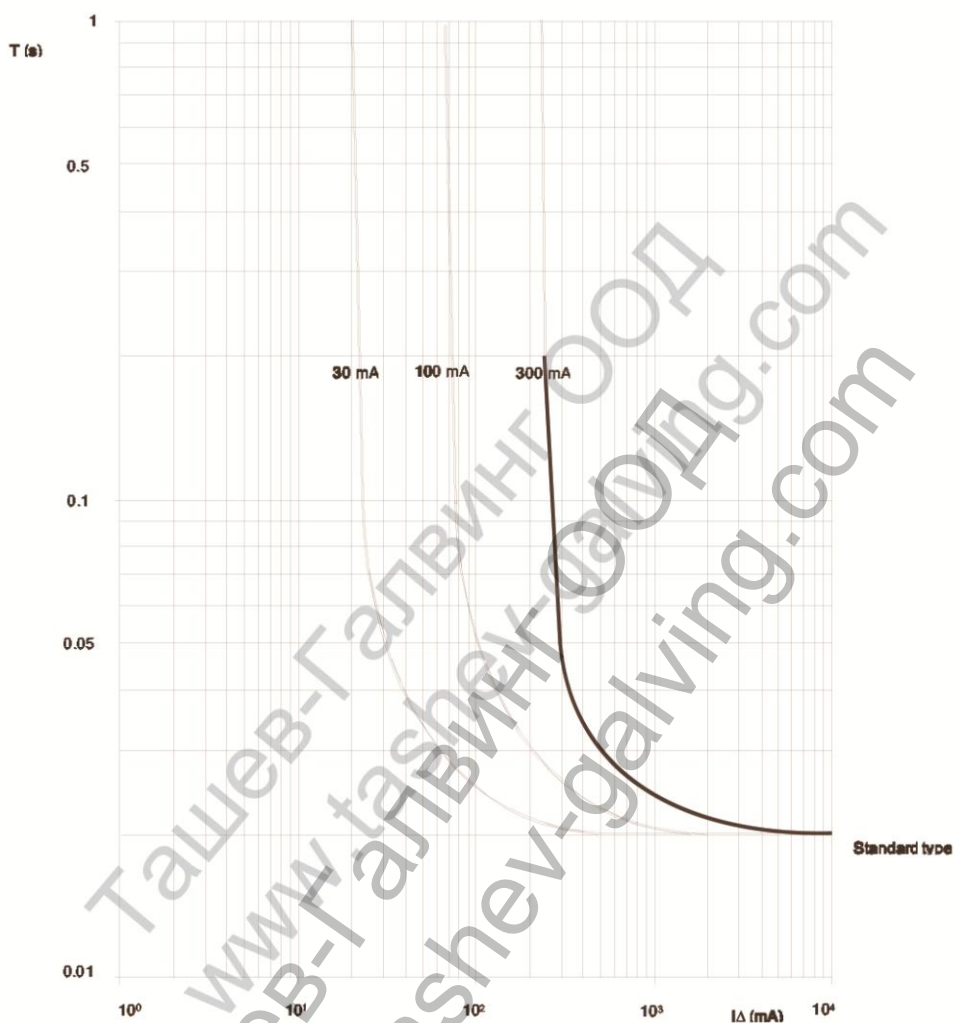
. 400/415 V three phases + neutral network : Maximum value of short-circuit withstand of R.C.C.B.'s in terms of associated protection

DOWNSTREAM	UPSTREAM				
RCCB	MCB				
	LR (B/C) ≤ 63 A	DX (B/C) ≤ 63 A	DX-H (B/C) ≤ 63 A	DX-H (B/C) 80 to 125 A	DPX 125
25 A	6 kA	10 kA	10 kA	10 kA	10 kA
40 A	6 kA	10 kA	10 kA	10 kA	10 kA
63 A	6 kA	10 kA	10 kA	10 kA	10 kA

DOWNSTREAM	UPSTREAM					
RCCB	gG FUSE					
Calibre	≤ 25 A	32 A	40 A	50 A	63 A	80 A
25 A	100 kA	70 kA	30 kA	20 kA	16 kA	10 kA
40 A	-	-	30 kA	20 kA	16 kA	10 kA
63 A	-	-	-	-	16 kA	10 kA

9. RESIDUAL CURRENT TRIPPING CURVES

Curve of tripping time in terms of residual current

Продукт: [Дефектнотокова защита Legrand 4P тип AC 25 A, 300 mA, 4P, 10 kA, LR](#)Категория: [Дефектнотокова защита](#)Бранд: [Legrand](#)Категория бранд: [Дефектнотокова защита Legrand](#)