5. GENERAL CHARACTERISTICS *(continued)*

Sinusoidal vibration resistance (in accordance with IEC 68.2.6):

. Axes: x – y – z
. Frequency: 10 to 55 Hz
. Acceleration: 3g (1g = 9.81 $m.s^{-2}$)

Resistance to tremors:

. In accordance with standard NF EN 61009-1

Ambient temperature:

. Operation:
. For the AC type from - 25°C to + 70°C
. For the Hpi type from - 25°C to + 60°C
.Storage: from - 40°C to +70°C

DC operation:

. No

Frequency:

. Operation at 400Hz: No
. Operation at 60Hz: Yes, except "A" types with sensitivity 30mA, which can be replaced by HPI types of equivalent ratings and sensitivity.

Packaged volume and quantity:

	Volume (dm^3)	Packaging
For all ratings	**0.4**	**Per 1**

Derating of RCBOs function of the number of devices placed side by side:

When several RCBOs are installed side by side and operate simultaneously, the heat dissipation of one pole is limited. This results in an increased operating temperature for RCBOs which may cause false tripping. Applying the following coefficients to the operating currents is recommended.

Number of RCBOs side by side	Coefficient
2 - 3	**0.9**
4 – 5	**0.8**
6 - 9	**0.7**
≥ 10	**0.6**

These values are provided by recommendation IEC 60439-1 and the standards NF C 63421 and EN 60439-1.
In order to avoid having to use these coefficients there must be good ventilation and the devices must be kept apart using the spacing elements Cat. No. 4 063 07 (0.5 module).

Derating of RCBOs in the event of use with fluorescent tubes:

Electronic or ferromagnetic ballasts provide a high inrush current for a very short time. These currents are liable to cause tripping of the RCBOs.
The maximum number of ballasts per RCBO stated by the lamp and ballast manufacturers in their catalogues should be taken into account during installation.

5. GENERAL CHARACTERISTICS *(continued)*

Impact of height:

	≤ 2000 m	3,000 m	4,000 m	5,000 m
Dielectric strength	**2,000 V**	**1,750 V**	**1,500 V**	**1,250 V**
Maximum operating voltage	**230 V**	**230 V**	**230 V**	**230 V**
Derating at 30°C	**none**	**none**	**none**	**none**

Product weight:

Catalogue Number	Description	Weight (kg)
4 109 07	B16 AC type 10mA	**0,18**
4 109 18	B6 AC type 30mA	**0,18**
4 109 19	B10 AC type 30mA	**0,18**
4 109 20	B13 AC type 30mA	**0,17**
4 109 21	B16 AC type 30mA	**0,17**
4 109 22	B20 AC type 30mA	**0,17**
4 109 23	B25 AC type 30mA	**0,17**
4 109 24	B32 AC type 30mA	**0,17**
4 109 25	B40 AC type 30mA	**0,19**
4 109 47	B16 A type 10mA	**0,18**
4 109 62	B6 A type 30mA	**0,18**
4 109 63	B10 A type 30mA	**0,18**
4 109 64	B13 A type 30mA	**0,17**
4 109 65	B16 A type 30mA	**0,17**
4 109 66	B20 A type 30mA	**0,17**
4 109 67	B25 A type 30mA	**0,17**
4 109 68	B32 A type 30mA	**0,17**
4 109 69	B40 A type 30mA	**0,19**
4 109 95	C16 AC type 10mA	**0,18**
4 110 07	C2 AC type 30mA	**0,18**
4 110 08	C3 AC type 30mA	**0,18**
4 110 09	C4 AC type 30mA	**0,18**
4 110 10	C6 AC type 30mA	**0,18**
4 110 11	C10 AC type 30mA	**0,17**
4 110 12	C13 AC type 30mA	**0,17**
4 110 13	C16 AC type 30mA	**0,17**
4 110 14	C20 AC type 30mA	**0,17**
4 110 15	C25 AC type 30mA	**0,17**
4 110 16	C32 AC type 30mA	**0,17**
4 114 17	C40 AC type 30mA	**0,19**
4 110 33	C10 AC type 300mA	**0,16**
4 110 35	C16 AC type 300mA	**0,17**
4 110 43	C16 A type 10mA	**0,18**
4 110 58	C6 A type 30mA	**0,18**