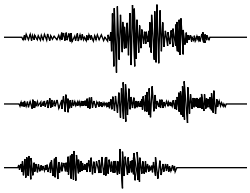
Okken 2G & 5G

LV switchboards

To secure your installations
in seismic zones



Merlin Gerin
Square D
Telemecanique

Schneider Electric
Building a New Electric World

Okken 2G & 5G

To secure your installations in seismic zones

With **Okken 2G and 5G,** Schneider Electric guarantees that in all circumstances you can count on the availability of electric power to ensure continuity of service and operation of your industrial, tertiary or infrastructure facility.

Resistant to your environment

The new Okken 2G & 5G power switchboard offering is a development of the Okken product range, which has already proved itself in thousands of facilities throughout the world. It is designed to cope with stress during earthquakes:

- Strong mechanical resistance to tremors;
- Little deformation of the switchboard;
- Continuity of electricity service.

Depending on the zone in which the facility is located and the type of application, Schneider Electric proposes two equipment levels:

> Okken 2G

The 2G version has a switchboard structure (frames and plinths) reinforced by angle brackets and a floor-mounting base of different design providing even more stiffness for the switchboard structure.

> Okken 5G

The 5G version is a variant of Okken 2G with extra reinforcements (top and bottom cross braces), appropriate fasteners, and a rear door panelling to meet the requirements laid down for nuclear and industrial applications demanding a very high safety level.

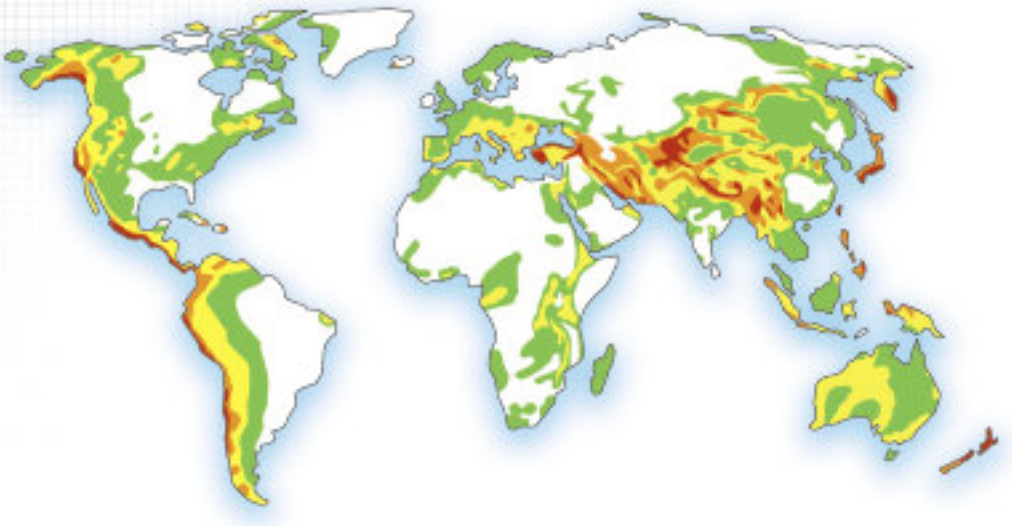
Proven reliability

The Okken 2G & 5G switchboards undergo full-scale testing by Schneider Electric for use in major industrial facilities or sensitive infrastructures. They comply with the most demanding local and international standards: IBC 2003 floor and roof, IEC 60721-2-6, IEC 68-3-3, EDF HN20 E53, etc.

■ Airports ■ Chemical plants ■ Data centres ■ Nuclear facilities ■ Water treatment ■ Iron and steel industry ■ Cement plants ■

Seismic zones around the world

Zone 4
Zone 3
Zone 2
Zone 1
Zone 0



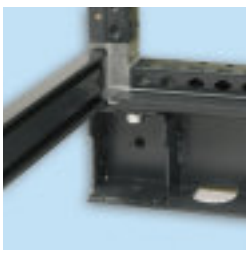
Schneider Electric solutions

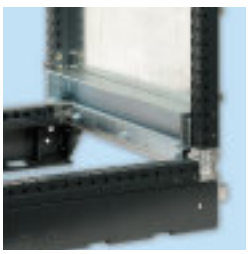
	CEI 68-3-3	Seismic zone	Modified Mercalli Intensity Scale	Richter Scale (approximate values)
Okken 2G	AG2	0	1 Tremors not felt	0-2
			2 Tremors felt by a few people at rest	1-2
			3 Parked cars may move	2-3
			4 Glass and dishes shake	3-4
		1	5 Tremors felt outdoors	4-5
	AG3	2	6 Breaking glass, falling merchandise	5-6
			7 Tremors felt in moving vehicles	5-7
		3	8 Major damage to: ■ brick buildings ■ irrigation structures	6-8
	AG5	4	9 Landslides	7-9
			10 Most masonry structures are destroyed	
			11 Permanent ground deformation	8 and above
			12 Almost total destruction	

Table excerpted from IEC 721-2-6

Okken 5G	Nuclear **HN20E53***	A safety factor of 2 to 3 times the highest tremor level recorded (Chile: 9.6 on the Richter Scale in 1960) is applied.

EDF (French Electricity Board) technical specification





■ Frame reinforcements ■ Plinth ■ Framework ■ Fasteners ■ Front face

And always the same adaptability

The 2G and 5G switchboards carry over all the features that have made the reputation of the Okken range.

> Customisation

Fixed, disconnectable, plug-in or withdrawable switchboard up to 3200 A.

> Mixity

Distribution and motor control feeders in a same column.

> Simplicity

Easy to implement and operate, easy upgrading.

> Rationality

Adjustable investment.

They can be adapted to meet all technical constraints and local customs thanks to their modular architecture and all the Merlin Gerin and Telemecanique switchgear.

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