

7.4.2 IK Code and Impact Energy

The European standard EN 62262 - the equivalent of international standard IEC 62262 (2002) - relates to IK ratings. This is an international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. It provides a means of specifying the capacity of an enclosure to protect its contents from external impacts.

EN 62262 specifies the way enclosures should be mounted when tests are carried out, the atmospheric conditions that should prevail, the number of impacts (5) and their (even) distribution, and the size, style, material, dimensions etc. of the various types of hammer designed to produce the energy levels required. See Table 14 and 15 below:

IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (joule)	*	0,14	0,2	0,35	0,5	0,7	1	2	5	10	20

Table 14
IK Code for protection.

Impact test characteristics							
IK code	IK00	IK01 to IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (joules)	*	<1	1	2	5	10	20
R mm (radius of striking element)	*	10	10	25	25	50	50
Material	*	polyamide ¹	polyamide ²	steel ²	steel ²	steel ²	steel ²
Mass kg	*	0,2	0,5	0,5	1,7	5	5
Pendulum hammer	*	Yes	Yes	Yes	Yes	Yes	Yes
Spring hammer	*	Yes	Yes	Yes	No	No	No
Free fall hammer	*	No	No	Yes	Yes	Yes	Yes

* not protected according to the standard

1. R100 Rockwell hardness according to ISO 2039/2

2. Fc 490-2, Rockwell hardness according to ISO 1052

Table 15
IK Code System test characteristics.