

3. Standards

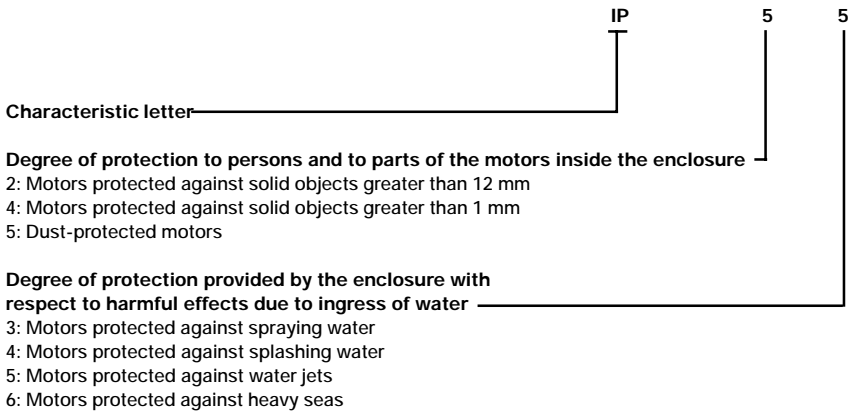
3.4 Degrees of protection: IP code/IK code

Classification of degrees of protection provided by enclosures of rotating machines are refers to:

- Standard IEC 34-5 or EN 60529 for IP code
- Standard EN 50102 for IK code

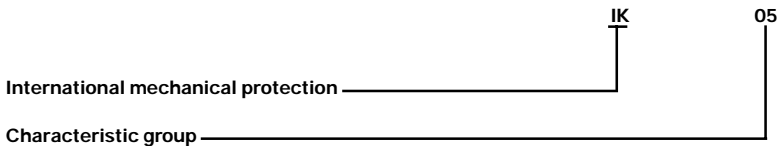
IP protection:

Protection of persons against getting in contact with (or approaching) live parts and against contact with moving parts inside the enclosure. Also protection of the machine against ingress of solid foreign objects. Protection of machines against the harmful effects due to the ingress of water



IK code :

Classification of degrees of protection provided by enclosure for motors against external mechanical impacts.



Relation between IK code and impact energy:

IK code	IK 00	IK 01	IK 02	IK 03	IK 04	IK 05	IK 06	IK 07	IK 08	IK 09	IK 10
Impact energy Joule	*	0.15	0.2	0.35	0.5	0.7	1	2	5 ABB Motors Standard	10	20

* not protected according to EN 50102