



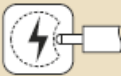





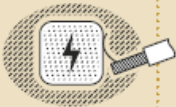
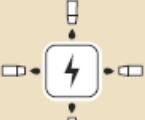

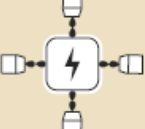




First numeral			Second numeral				
Protection against ingress of solid foreign objects		Example	Meaning protection of persons against access to hazardous parts with:	Protection against harmful ingress of water		Meaning for protection from ingress of water:	
IP	Requirements			IP	Requirements		Example
0	No protection		No protection provided	0	No protection		No protection provided
1	Full penetration of 50.0 mm diameter sphere not allowed and shall have adequate clearance from hazardous parts. Contact with hazardous parts not permitted		Back of hand	1	Protected against vertically falling drops of water		Vertically dripping
2	Full penetration of 12.5 mm diameter sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts		Finger	2	Protected against vertically falling drops of water with enclosure tilted 15° from the vertical.		Enclosure tilted 15° from the vertical
3	The access probe of 2.5 mm diameter shall not penetrate		Tool	3	Protected against sprays to 60° from the vertical		Limited spraying
4	The access probe of 1.0 mm diameter shall not penetrate		Wire	4	Protected against water splashed from all directions		Splashing from all directions
5	Limited ingress of dust permitted (no harmful deposit, refer to standard)		Wire	5	Protected against lowpressure jets of water from all directions		Hosing jets from all directions
6	Totally protected against ingress of dust		Wire	6	Protected against strong jets of water		Strong hosing jets from all directions
				7	Protected against the effects of immersion between 15.0 cm and 1.0 m		Temporary immersion
				8	Protected against longer periods of immersion under pressure		Immersion