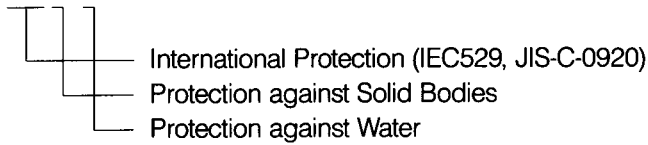


EXPLANATION OF "IP" RATINGS

IP □ □



Protection against Solid Bodies			Protection against Water		
Code	Explanation		Code	Explanation	
0		No protection.	0		No protection.
1		Protected against solid bodies larger than 50mm. (eg. accidental contact with the hand)	1		Protected against vertically falling drop of water. (condensation)
2		Protected against solid bodies larger than 12mm. (eg. finger of the hand)	2		Protected against drop of water falling at up to 15° from the vertical.
3		Protected against solid bodies larger than 2.5mm. (eg. tools and wires)	3		Protected against drops of rain water at up to 60° from the vertical.
4		Protected against solid bodies larger than 1mm. (fine tools and small wires)	4		Protected against splashing of water from all directions.
5		Protected against dust (no harmful deposit). Complete protection from solid bodies.	5		Protected against jets of water from all directions 12.5mm core-nozzle 10m head 3m distance.
6		Completely protected against dust. Complete protection from solid bodies.	6		Protected against jets of water of similar force to heavy seas as 5 but 1.3m distance.
			7, 8		Protected against the effects of dimension at specified pressure. 7 – limited time 8 – unlimited time

Conversion of NEMA type Enclosures to IEC Classifications (Reference)

IEC	IP10	IP11	IP54	IP14	IP54	IP56	IP52	IP67	IP52	IP54
NEMA	1	2	3	3R	3S	4&4X	5	6&6P	12&12K	13