

Technical Reference – IP and NEMA Enclosure Ratings

■ Explanation of IP Ratings

Internal Protection (IEC529,JIS-C-0920)		IP		
Protection Against Solid Bodies				Protection Against Water
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 drops of water (condensation)
2	Protected against solid bodies larger than 12mm (eg. contact with finger of the hand)			2 Protected against drops 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 water falling at up to 60° from the vertical
4	Protected against solid bodies larger than 1mm (eg. fine tools and small wires)			4 Protected against splashing of water from all directions.
5	Protected against dust (no harmful deposits). Complete protection from solid bodies.			5 Protected against jets of water from all directions (12.5mm core nozzle, 10m head at 3m distance)
6	Completely protected against dust. Complete protection from solid bodies.			6 Protected against jets of water from all directions similar to 5 but at 1.3m distance
				7,8 Protected against the effects of dimensional changes at specified pressure: 7 limited time 8 unlimited time

■ Conversion of IP and NEMA Enclosure Ratings

(Including but not limited to the following)

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



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