



Reference: NEMA Standard IEC 60529 IP Ratings; IP Ratings Standard for dust exposure and water intrusion (e.g. Mechatronics' IP55 AC Fan Motors)

First Numeral

Protection against human access or solid objects

0

No protection

1

Protected against solid objects with a diameter of 50mm and over (e.g. accidental insertion of hands)

2

Protected against solid objects over 12mm (e.g. jointed fingers)

3

Protected against solid objects over 2.5mm (e.g. tools)

4

Protected against solid objects over 1mm (e.g. small wires)

5

Protected against dust – limited ingress permitted (no harmful deposit)

6

Totally protected against dust

Second Numeral

Protection against harmful ingress of liquids

0

No protection

1

Protected against vertically falling drops of water

2

Protected against direct sprays of water up to 15 degrees from the vertical

3

Protected against direct sprays of water up to 60 degrees from the vertical

4

Protected against water sprayed from any direction - limited ingress permitted

5

Protected against low pressure jets of water from any direction - limited ingress permitted

6

Protected against strong jets of water from any direction - limited ingress permitted (e.g. heavy seas)

7

Protected against the effects of temporary immersion in water between 15cm and 1m

8

Protected against the effects of continuous immersion in water