NEMA to IP Conversion Cl

Basis: NEMA 250 Annex comparison with IEC 60529. The comparison is one way: NEMA type to IP code.

instrumentationblog.in/downloads/engineering-reference-tables/nema-to-ip-conversion-chart/

NEMA type to minimum IP equivalent

NEMA type	Meets or exceeds
1	IP10
2	IP11
3	IP54
3R	IP14
3S	IP54
4	IP66
4X	IP66
5	IP52
6	IP67
6P	IP68
12	IP52
12K	IP52
13	IP54

Notes

- Hazardous location types 7 to 10 have no IP equivalent.
- NEMA's own comparison is more conservative for some types (for example IP56 for Type 4 and 4X); many makers test 4X enclosures to IP66.

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.