



NEMA STARTER ENCLOSURES **GUIDE**

TECHNICAL INFORMATION EDUCATION SERIES



STARTER ENCLOSURES

TYPE NEMA ENCLOSURE

| | |
|-----|--|
| 1 | General Purpose—Indoor |
| 2 | Dripproof—Indoor |
| 3 | Dusttight, Raintight, Sleettight—Outdoor |
| 3R | Raintight, Sleet Resistant—Outdoor |
| 3S | Dusttight, Raintight, Sleettight—Outdoor |
| 4 | Watertight, Dusttight, Sleet Resistant—Indoor & Outdoor |
| 4X | Watertight, Dusttight, Corrosion-Resistant—Indoor & Outdoor |
| 5 | Dusttight, Dripproof—Indoor |
| 6 | Occasionally Submersible, Watertight, Sleet Resistant—Indoor & Outdoor |
| 6P | Watertight, Sleet Resistant—Prolonged Submersion—Indoor & Outdoor |
| 12 | Dusttight and Driptight—Indoor |
| 12K | Dusttight and Driptight, with Knockouts—Indoor |
| 13 | Oiltight and Dusttight—Indoor |

HAZARDOUS LOCATION STARTERS

| | |
|----|--|
| 7 | Class I, Group A, B, C or D Hazardous Locations—Indoor |
| 8 | Class I, Group A, B, C or D Hazardous Locations—Indoor & Outdoor |
| 9 | Class II, Group E, F or G Hazardous Locations—Indoor |
| 10 | Requirements of Mine Safety and Health Administration |

CONVERSION OF NEMA TYPE NUMBERS TO IEC CLASSIFICATION DESIGNATIONS

(Cannot be used to convert IEC Classification Designations to NEMA Type Numbers)

| NEMA ENCLOSURE TYPE NUMBER | IEC ENCLOSURE CLASSIFICATION DESIGNATION |
|----------------------------|--|
| 1 | IP10 |
| 2 | IP11 |
| 3 | IP54 |
| 3R | IP14 |
| 3S | IP54 |
| 4 and 4X | IP56 |
| 5 | IP52 |
| 6 and 6P | IP67 |
| 12 and 12K | IP52 |
| 13 | IP54 |

Note: This comparison is based on tests specified in IEC Publication 60529 (2001-02).
Reference: Information in the above tables is based on NEMA 250-1997.



Source The Electrical Engineering Pocket Handbook
Electrical Apparatus Service Association



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