

## **PRODUCT APPROVALS AND CERTIFICATIONS**

### **Q: WHAT IS THE UL/CSA TESTING PROTOCOL AND LISTING FOR NEMA 4X?**

**A:** UL 50 CSA C22.2 No. 94.2 – 15: Enclosures for Electrical Equipment, Environmental Considerations UL50E NEMA 4X Testing and Testing to IP 66: NEMA 4X Testing includes the following protocols:

- External Icing Test, Clause 8.5
- Hose Down Test, Clause 8.6

### **Q: WHAT IS THE IP 66 RATING AND LISTING UNDER IEC 60529 DEGREES OF PROTECTION PROVIDED BY THE ELECTRICAL ENCLOSURES (IP CODE)?**

**A:** Dust Tight Test for IP Code IPX6, Clause 13.4, Water Spray (Powerful Jetting) Test for IP Code IPX6: Clause 14.2.6.

### **Q: WHAT DOES THE TYPE 4X SIMPush™ TESTING, LISTING AND CERTIFICATION MEAN?**

**A:** Enclosures are constructed either for indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to ingress of water (rain, sleet, snow, splashing water, and hose-directed water); that provides an increased level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.