

NORTH AMERICAN CLASSIFICATION

EUROPEAN & IEC CLASSIFICATION

Class I	Flammable Gases, Vapours or Liquids	Div 1	Where an ignitable mixture can exist for long periods of time under normal operating conditions	Zone 0 (Gases) Zone 20 (Dust)
Class II	Combustible Dust		Where an ignitable mixture can exist some of the time under normal operating condition	Zone 1 (Gases) Zone 21 (Dust)
Class III	Ignitable Fibers	Div 2	Where an ignitable mixture is not likely to exist under normal operating conditions	Zone 2 (Gases) Zone 22 (Dust)

TEMPERATURE CLASSIFICATION

TEMPERATURES In Degrees C	CLASSIFICATION	
	IEC	NORTH AMERICA
450	T1	T1
300	T2	T2
280	T2	T2A
260	T2	T2B
230	T2	T2C
215	T2	T2D
200	T3	T3
180	T3	T3A
165	T3	T3B
160	T3	T3C
135	T4	T4
120	T4	T4A
100	T5	T5
85	T6	T6

INGRESS PROTECTION IP XX

1st Digit protection against solid objects

0	Non Protected
1	Protected against objects greater than 50mm
2	Protected against objects greater than 12.5mm
3	Protected against objects greater than 2.5mm
4	Protected against objects greater than 1.0mm
5	Dust Protected
6	Dust Tight

2nd Digit protection against moisture

0	Non Protected
1	Protected against vertical dripping water
2	Protected against dripping water when tilted at 15 degrees
3	Protected against spraying water
4	Protected against splashing water
5	Protected against water jets
6	Protected against powerfully water jets
7	Protected against temporary immersion 15cm to 1m
8	Protected against continuous immersion

North American X-Ref Guide

NEMA 3	similar to IP54
NEMA 4	similar to IP55
NEMA 4X	similar to IP56
NEMA 6	similar to IP67