

Division System Electrical Equipment Protection Techniques			
		Applicable Certification Documents	
Area	Protection Techniques	UL Mark	C-UL Mark
Div. 1	• Intrinsic safety	UL 913	CSA 157 or CSA 60079-11
	• Explosionproof	UL 1203	CSA 30
	• Purged/pressurized, Type X or Y	NFPA 496	NFPA 496
	• Any Class I, Zone 0 technique	See Zone 0 techniques	See Zone 0 techniques
Div. 2	• Enclosed-break	UL 121201	CSA 213
	• Hermetically-sealed	UL 121201	CSA 213
	• Nonincendive	UL 121201	CSA 213
	• Non-sparking	UL 121201	CSA 213
	• Oil immersed	UL 121201	CSA 213
	• Purged/pressurized, Type Z	NFPA 496	NFPA 496
	• Sealed	UL 121201	CSA 213
	• Any Class I, Division 1 technique	See above	See above
	• Any Class I, Zone 0, 1 or 2 technique	See Zone techniques	See Zone techniques



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Note 1: Zone 0, 1 and 2 general requirements are contained in UL 60079-0 (UL Mark), CSA 60079-0 (C-UL Mark), IEC 60079-0 (IECx) and EN 60079-0 (ATEX).

Note 2: Zone 0, 1 and 2 intrinsically safe system requirements are contained in UL 60079-25 (UL Mark), CSA 60079-25 (C-UL Mark), IEC 60079-25 (IECx) and EN 60079-25 (ATEX).

Note 3: Category 1, 2 and 3 general requirements are contained in UL 60079-10 (UL Mark), CSA 60079-10 (C-UL Mark), IEC 60079-10 (IECx) and EN 60079-10 (ATEX).

Note 4: Equipment Protection Levels (EPLs) are used to provide additional details regarding the level of protection against ignition in explosive atmospheres. EPLs are designated by a letter "G" for Gas, "D" for Dust or "M" for Mining, followed by a letter "a" for "very high", "b" for "high" or "c" for "enhanced" level of protection.

Note 5: Under the ATEX Directive (2014/34/EU), the marking of Categories is additionally required. ATEX Categories are similar to EPLs in function and designation as follows: ATEX Category 1 is equivalent to EPL Gc, ATEX Category 2 is equivalent to EPL Gb, and ATEX Category 3 is equivalent to EPL Gd.

Note 6: INMETRO certification requirements are determined by Portaria 179s of 18 May 2010, with the associated Brazilian NBR Ex standards harmonized with the comparable IECEx standards noted above.

Note 7: References to "area" to "any" protection techniques from another area require these other area techniques to be for the same gas atmosphere, and with a suitable temperature class.

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Includes combustible dusts and ignitable fibers/flyings

Class III, Division 1:	Class III, Division 2:	Class III, Division 1 and 2: None. Note: Article 503 of the NEC, and Appendix J of the CEC, limit the maximum surface temperature for Class III equipment to 165°C for equipment not subject to overloading and to 120°C for equipment that may be overloaded.
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Note 1: Class II and Class III, Division 1 intrinsically safe system requirements are contained in UL 913 (UL Mark) and CSA 157 or CSA 60079-25 (C-UL Mark)

Note 2: References in one area to "any" protection techniques from another area require these other area techniques to be for the same dust atmosphere; and with a suitable temperature class.

Note 1: Zone 20, 21 and 22 general requirements are contained in UL 60079-0 (UL Mark), CSA 60079-0 (C-UL Mark), IEC 60079-0 (IECEx) and EN 60079-0 (ATEX).

Note 2: Zone 20, 21 and 22 intrinsically safe system requirements are contained in UL 60079-25 (UL Mark), CSA 60079-25 (C-UL Mark), IEC 60079-25 (IECEx) and EN 60079-25 (ATEX).

Note 3: Equipment Protection Levels (EPLs) are used to provide additional details regarding the level of protection against ignition in explosive atmospheres. EPLs are designated by a letter "G" for Gas, "D" for Dust or "M" for Mining, followed by a letter "a" for "very high", "b" for "high" or "c" for "enhanced" level of protection.

Note 4: Under the ATEX Directive (2014/34/EU), the marking of Categories is additionally required. ATEX Categories are similar to EPLs in function and designation as follows, ATEX Category 1G, 2G, 3G, 1D, 2D, 3D, M1, M2 = EPL Ga, Gb, Gc, Da, Db, Dc, Ma, Mb respectively.

Note 5: INMETRO certification (INMETRO/UL-BR Mark) requirements are determined by Portaria 179 as of 18 May 2010, with the associated Brazilian NBR Ex standards harmonized with the comparable IEC Ex standards noted above.

Note 6: References in one area to “any” protection techniques from another area require these other area techniques to be for the same dust atmosphere; and with a suitable temperature class.

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