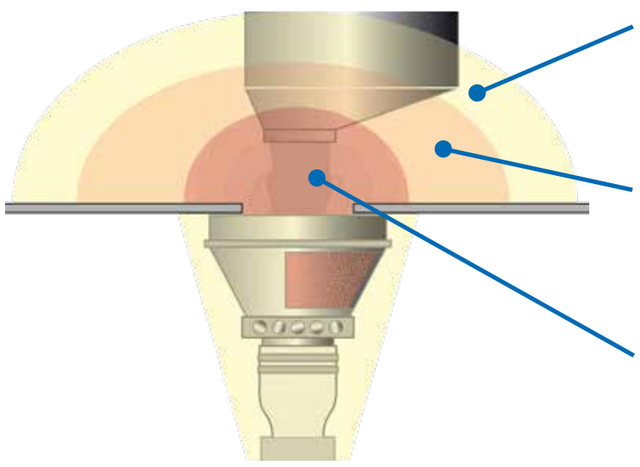
ATEX
Dust information

EPL IEC 60067-0	Device category 94/9/EC	Can be used in zones	Avoidance of sources of ignition
Dc	3D	22	in normal operation
Db	2D	21, 22	Including with normal malfunctions
Da	1D	20, 21, 22	Even with rare malfunctions

DRIVESYSTEMS



Zone 22:
Rare occurrence of explosive atmospheres

Zone 21:
Occasional occurrence of explosive atmospheres

Zone 20:
Constant or frequent occurrence of explosive atmospheres

ATEX
Dust labelling for motors

Labelling and categorisation of explosive environment					
Type of material	Presence of flammable material	Categorisation of explosive environment	Labelling of equipment		EPL - Equipment protection level
			Equipment group	Device category	
Dusts	Continuously or frequently present	Zone 20	II	1D	Da
	Occasionally present	Zone 21	II	2D	Db
	Rarely present (short periods)	Zone 22	II	3D	Dc

II 3D Ex tc IIIB T125°C Dc X

Type of ignition protection for electrical devices				
Protection principle	Type of ignition protection	Identification	Use in zone	Standard
Protection with housing	Dust explosion protection t	ta tb tc	20 21 22	EN60079-31

Explosion group	
Explosion group Dust	Examples
IIIA	Flammable fluff
IIIB	Non-conductive dust
IIIC	Conductive dust

Surface temperature
Maximum surface temperature of equipment in degrees Celsius

Additional information	
X	Note any special conditions or restrictions - refer to the documentation

ATEX
Dust labelling for gear units

Labelling and categorisation of explosive environment					
Type of material	Presence of flammable material	Categorisation of explosive environment	Labelling of equipment		
			Equipment group	Device category	
Dusts	Continuously or frequently present	Zone 20	II	1D	
	Occasionally present	Zone 21	II	2D	
	Rarely present (short periods)	Zone 22	II	3D	

II 2D c 125°C X

Type of ignition protection for mechanical devices				
Protection principle	Type of ignition protection	Identification	Use in zone	Standard
Constructional safety	The design of the equipment prevents sparks and high temperatures	c	21 and 22	EN13463-5

Surface temperature
Maximum surface temperature of equipment in degrees Celsius

Additional information	
X	Note any special conditions or restrictions - refer to the documentation

WARNING! Please note the relevant standards and directives.

This poster / manual contains excerpts and information from the European standards and directives for explosion protection. It is specially tailored to NORD DRIVESYSTEMS products and does not claim to be complete. Knowledge of this document does not release the user from the obligation for detailed study of and compliance with all relevant standards and directives.

NORD product range (dust)

Please refer to the relevant catalogue for details of the available range from NORD.
At present, NORD does not supply solutions for use in Zone 20.

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