Fans acc. to ATEX
Directive 2014/34/EU and DIN EN 14986

REITZ GROUP

Explosion protection for fans – Questionnaire

Replacement for RKU0200-01

Customer/operating company: **Person in charge:**

Date: **Signature:**

1. Fans handling inflammable gas, vapour or mist

1.1 Conveyance of inflammable gas, vapour or mist (in the fan inside)

Zone 1/Category 2G ☐ gas explosion group IIA ☐ IIB ☐ IIC (H_2) ☐
Zone 2/Category 3G ☐
non-explosive zone ☐

handled gas, contents	:	when relevant, details on separate sheet
in the case of hydrogen (H_2) proportions	:	% (ideal gas)
inertisation with (inert gas)	:	indicate gas type and proportion in %
ignition point	:	°C (*)
minimum inlet temperature	:	°C
maximum inlet temperature	:	°C
maximum inlet pressure (pressure of system)	:	daPa
maximum pressure increase	:	daPa
formation of ferritic oxidation (rust)	☐	
formation of sticking material/moisture	☐	
formation of abrasion/wear and tear	☐	

(*) Reference work for ignition temperatures of gases: e.g. Chemsafe (https://www.chemsafe.ptb.de)

1.2 Installation of fan in

Zone 1/Category 2G ☐ gas explosion group IIA ☐ IIB ☐ IIC (H_2) ☐
Zone 2/Category 3G ☐
non-explosive atmosphere ☐

ambience, contents	:	when relevant, details on separate sheet
in the case of hydrogen (H_2) proportions	:	% (ideal gas)
ignition point	:	°C (*)

Remark: The categories for handled gas and the surrounding atmosphere must not differ in more than one level from each other (DIN EN 14986).

1.3 Motor design for installation in zone 1 category 2G according to IEC/EN 60079-10-1

increased safety	Ex eb (only T3)	IIA ☐	IIB ☐	IIC ☐
flame-proof (terminal box increased safety)	Ex db eb	IIA ☐	IIB ☐	IIC ☐
flame-proof (terminal box flame-proof tool)	Ex db	IIA ☐	IIB ☐	IIC ☐

temperature class: T3 ☐ or T4 ☐

1.4 Motor design for installation in zone 2 category 3G according to IEC/EN 60079-10-1

increased safety	Ex ec (only T3)	IIA ☐	IIB ☐	IIC ☐

temperature class: T3

1.5 Type of starting

direct starting (triangle - Δ or star - Y) ☐
star-delta-starting (Y/Δ) ☐
soft start-up ☐ →
frequency converter starting ☐ →

*installation in **zone 1**: inapplicable to motors of type of protection "**increased safety**"*