(1) # Certificate of Conformity

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) Certificate Number

EPS 23 ATEX 1 143 X **Revision 0**

(4) Equipment: Protection relay INT69 xxEXF2 Diagnose, AmaControl X
(xx is a customization identifier, may be blank or alphanumeric characters referring to product customizations not affecting safety)

(5) Manufacturer: KRIWAN Industrie-Elektronik GmbH

(6) Address: Allmand 11
74670 Forchtenberg
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 23TH0243.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN ISO 80079-36:2016** **EN ISO 80079-37:2016**

EN 50495:2010 **IEC TS 60079-42:2019-04**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II (2) G [Ex h]
II (2) D [Ex h]
II (2) G [Ex Gb]
II (2) D [Ex Db]

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS Bureau Veritas CPS Germany GmbH 1828

Certification department of explosion protection

Ulrich Feike

Tuerkheim, 2023-05-30

(13) # Annex

(14) **Certificate of Conformity EPS 23 ATEX 1 143 X** **Revision 0**

(15) Description of equipment:

The INT69 xxEXF2 Diagnose protection relay represents one of the most effective and reliable protective measures for electrical machines against impermissible heating and thermal overload. It is suitable for temperature monitoring for both electrical and mechanical equipments that are also operated in potentially explosive atmospheres, such as pumps and agitators.

"Temperature 1 (PTC)" is monitored according to the evaluation procedure of a PTC or a PTC chain connected in series. The monitoring of a PTC sensor switches off the output Relay 1 without delay when the nominal response temperature is reached. A short circuit or an interruption at a temperature input will also cause Relay 1 to switch off. The relay disconnection is interlocked. The error message is retained even if the supply voltage fails in the meantime (zero-voltage safety).

"Temperature 2 (Bimetal)" is monitored according to the evaluation procedure of a bimetal switch. When the bimetal switch is opened, the output relay 1 switches off without delay. The relay disconnection is interlocked. The error message is retained even if the supply voltage fails in the meantime (zero-voltage safety).

Restarting after a lockout is only possible after resetting by pressing the built-in pushbutton or a pushbutton connected to X1/X2.

The INT69 xxEXF2 Diagnose is a universal and versatile protection relay. It stores operating and fault data in a non-volatile memory. This data can be read out and evaluated for diagnostics.

The INT69 xxEXF2 protective relay is installed in a control cabinet outside the EX zone.

There are two voltage variants of the INT69 xxEXF2 Diagnose for different supply voltages, one for 100-240 V~ (22 A 713 P xxx) and one for 24 V~/⎓ (20 A 713 P xxx), where xxx is a number for an Hardware-identical customised variant.

Electrical data:

100-240 V~ 50/60 Hz ±10 % 5 VA (22 A 713 P xxx)
24 V~/⎓ 50/60 Hz ±10 % 5 VA (20 A 713 P xxx)

Environmental conditions:

-20 °C ≤ Ta ≤ +60 °C

Technical Data:

Safety Integrity Level:	SIL 1
HFT EUC:	0
HFT safety device:	0
Architecture:	1oo1
Operating mode:	Low Demand
Reaction time::	100 ms
Proof test interval:	105120 h
SFF:	> 45 %
PFDavg:	< 0.055

Certificate of Conformity EPS 23 ATEX 1 143 X **Revision 0**

RRF (22 A 713 P xxx)	10
RRF (20 A 713 P xxx)	100

(16) Reference number: 23TH0243

(17) Special conditions for safe use:

The sensor circuits must be designed in a type of protection suitable for the potentially explosive atmosphere and, depending on the requirements, must comply with the EPL Gb, Gc, Db or Dc.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2023-05-30

Ulrich Feike