(1) # EU-TYPE EXAMINATION CERTIFICATE

(2) Component Intended for use on/in an Equipment or Protective System for use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

SIQ 17 ATEX 192 U **Issue: 0**

(4) Product: Ammeter, types 8403/6 and 8405/6

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30, 74638 Waldenburg, Germany

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) SIQ Ljubljana, Notified body number 1304 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report TEx192/17.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 / A11 : 2013 **EN 60079-7 : 2015** **EN 60079-18 : 2015**

(10) The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

II 2 G Ex eb IIC Gb

I M 2 Ex eb I Mb

or

II 2 G Ex eb mb IIC Gb

I M 2 Ex eb mb I Mb

Certification body

Igor Likar

Ljubljana, 16 October 2017

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number SIQ 17 ATEX 192 U, Issue: 0**

(15) Description of Product

Ammeter, types 8403/6 and 8405/6, is used for measurement and display of current values in hazardous area. It is intended for installation in appropriate enclosure with degree of ingress protection of at least IP54 according to EN 60079-0. Moving-iron measuring elements are used as measuring system.

Technical data

Electrical data	Ammeter	
	Type: 8403/6	Type:8405/6
Rated current – measuring range	1 A – 0...2 A	
	1.5 A – 0...3 A	
	2.5 A – 0...5 A	
	4 A – 0...8 A	
	5 A – 0...10 A	
	10 A – 0...20 A	
	15 A – 0...30 A	
	25 A – 0...50 A	-
Rated insulation voltage	690 V	
Short-circuit current (overload capacity)	$I_{SC} = 30 \times I_n$ ... for $I_n = 25$ A $I_{SC} = 50 \times I_n$ ... for all others	$I_{SC} = 30 \times I_n$ ... for $I_n = 15$ A $I_{SC} = 50 \times I_n$ ... for all others
Power dissipation	max. 0.67 VA	
Connection - wiring	*Solid:* 2.5 mm² ... 10 mm² min. 4 mm² ... for $I_n = 15$ A min. 6 mm² ... for $I_n = 25$ A *Finely stranded or stranded:* 2.5 mm² ... 6 mm² min. 4 mm² ... for $I_n = 15$ A min. 6 mm² ... for $I_n = 25$ A	
Terminal clamp tightening torque	1.2 Nm	

(16) Test Report

TEx192/17 dated 16 October 2017.

(17) Schedule of Limitations

- Ammeters must be completely installed in an enclosure with degree of ingress protection of at least IP 54 according to EN 60079-0.
- Creepage distances and clearances between the connection terminals and the enclosure parts must be kept according to EN 60079-7, Table 2.

- Ammeters are suitable for following temperature classes within corresponding ambient temperature ranges at location of installation:
  - temperature class T4 ... -40°C ≤ T_{amb} ≤ +70°C
  - temperature class T5 ... -40°C ≤ T_{amb} ≤ +55°C
  - temperature class T6 ... -40°C ≤ T_{amb} ≤ +40°C

(18) Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance with the requirements of the standards listed under item (9).

(19) Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Ammeters 8403/6 (FQ0307) and 8405/6 (FQ0407), Certification Operating Instructions 022.025.100, 022.025.300, R. STAHL Schaltgeräte GmbH	F 4752-002	V1.0	26. 6 2017
GENERAL ASSEMBLEY FQ0307, Iskra d.d.	22.025.100.EX, L1+	V1	26. 6. 2017
EXPLODED VIEW – DRAWING FQ0307, Iskra d.d.	22.025.100.EX, L2+	V1	24. 4. 2017
MARKINGS FQ0307, Iskra d.d.	22.025.100.EX, L3+	V2	31. 8. 2017
ENCAPSULATION FQ0307, Iskra d.d.	22.025.100.EX, L4+	V1	26. 5. 2017
WINDINGS FQ0307, Iskra d.d.	22.025.100.EX, L5	V1	29. 6. 2017
GENERAL ASSEMBLEY FQ0407, Iskra d.d.	22.025.300.EX, L1+	V1	29. 5. 2017
EXPLODED VIEW – DRAWING FQ0407, Iskra d.d.	22.025.300.EX, L2+	V1	29. 5. 2017
MARKINGS FQ0407, Iskra d.d.	22.025.300.EX, L3+	V3	31. 8. 2017
ENCAPSULATION FQ0407, Iskra d.d.	22.025.300.EX, L4+	V1	29. 5. 2017
WINDINGS FQ0407, Iskra d.d.	22.025.300.EX, L5	V1	29. 6. 2017
Technical drawing, EX DNO, FQ0307EX, Iskra d.d.	22.710.123	V1	25. 5. 2017
Technical drawing, EX ZASCITA KONTAKTA, FQ0307EX, Iskra d.d.	22.710.005	V1	26. 5. 2017
Technical drawing, EX PODALJSEK Q72 RAIL, FQ0307EX, Iskra d.d.	22.710.004	V3	25. 1. 2017
Technical drawing, EX KONTAKT M4A, FQ0307EX, Iskra d.d.	22.710.034	V2	27. 6. 2016
Technical drawing, EX KONTAKT Q72 RAIL, FQ0307EX, Iskra d.d.	22.710.006	V3	5. 10. 2016
Technical drawing, EX OGRODJE, FQ0307EX, Iskra d.d.	22.710.023	V1	7. 6. 2016

Title:	Drawing No.:	Rev. Level:	Date:
Technical drawing, EX NAVITJE VZBUJEVALNO Q72, FQ0307EX, Iskra d.d.	W22.811.572	V2	30. 8. 2017
Technical drawing, EX NAVITJE VZBUJEVALNO 10A, FQ0307EX, Iskra d.d.	22.710.057	V1	30. 8. 2016
Technical drawing, EX NAVITJE VZBUJEVALNO 15A, FQ0307EX, Iskra d.d.	22.710.058	V1	30. 8. 2016
Technical drawing, EX NAVITJE VZBUJEVALNO 25A, FQ0307EX, Iskra d.d.	22.710.059	V1	4. 7. 2017
Technical drawing, EX POKROV KONTAKTA, FQ0307EX, Iskra d.d.	22.710.011	V1	26. 5. 2017
Technical drawing, EX MERILNIK FQ0407, FQ0407EX, Iskra d.d.	W22.025.300	V1	18. 1. 2017
Technical drawing, EX DNO RAIL F-6A, FQ0407EX, Iskra d.d.	22.710.010	V1	26. 5. 2017
Technical drawing, EX PLASC, FQ0407EX, Iskra d.d.	22.710.025	V1	29. 6. 2017
Technical drawing, EX KONTAKT Q48 RAIL, FQ0407EX, Iskra d.d.	22.710.012	V3	5. 10. 2016
Technical drawing, EX NAVITJE VZBUJEVALNO Q48, FQ0407EX, Iskra d.d.	W22.811.582	V2	29. 8. 2017
Technical drawing, EX OGRODJE, FQ0407EX, Iskra d.d.	22.710.024	V1	26. 5. 2017
Technical drawing, EX NAVITJE VZBUJEVALNO 10A Q48, FQ0407EX, Iskra d.d.	22.710.060	V2	29. 8. 2017
Technical drawing, EX NAVITJE VZBUJEVALNO 15A Q48, FQ0407EX, Iskra d.d.	22.710.061	V2	30. 8. 2017
Technical drawing, EX SPONKA, KMPL, Iskra d.d.	37.900.399	10	20. 6. 2017
Technical drawing, EX VIJAK M4, BI, Iskra d.d.	37.300.811	3	20. 6. 2017
Technical drawing, EX PODLOŽKA 4B DIN127, FQ0307EX, Iskra d.d.	91.012.596	V1	10. 7. 2017

*Note: An * is included before the title of documents that are new or revised.*

(20) Consolidated Certificates

None.