1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 14ATEX3157** Issue: **1**

4 Equipment: **SJIC/SJICH and USF Junction Boxes**

5 Applicant: **Killark, A Div. of Hubbell Inc. (Delaware)**

6 Address: 3940 Martin Luther King Drive, St. Louis, Missouri 63113. USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-7:2007 EN 60079-11:2012 IEC 60079-31:2013 Ed 2

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

II 1 G
II 2 D
Ex ia IIC T6/T5/T4 Ga
Ex tb IIIC T80°C/T100°C/T130°C Db
or

II 2 G D
Ex e IIC T6/T5/T4 Gb
Ex ib IIC T6/T5/T4 Gb
Ex tb IIIC T80°C/T100°C/T130°C Db
or

II 2 G D
Ex e ib IIC T6/T5/T4 Gb
Ex tb IIIC T80°C/T100°C/T130°C Db

Ta = -#°C to +40°C (when marked with T6/T80°C)
Ta = -#°C to +55°C (when marked with T5/T100°C)
Ta = -#°C to +90°C (when marked with T4/T130°C)
# The minimum ambient temperature may be either -50°C, -45°C, -40°C or -20°C, see Condition of Certification clause 17.10

Project Number 70086115

N Jones
Certification Manager

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

13 **DESCRIPTION OF EQUIPMENT**

The Type SJIC/SJICH and USF junction boxes utilise Carbon Steel or stainless steel Grade 304 and Grade 316 component enclosures certified under Sira 14ATEX3156U and IECEx SIR 14.0053U, coded Ex e IIC Gb and Ex tb IIIC Db. The enclosures provide an ingress protection rating of IP 66 and may optionally be powder coated.

The Type SJIC enclosures consist of a main body and a screw cover, the SJICH enclosures consist of a main body and a combination hinge/screw cover and the Type USF enclosures consist of a main body and a hinged lid secured by latch fasteners. Gland plates may be utilised within the side walls of each type of enclosure and mounting feet/brackets are provided.

All enclosures have an internal and external earth facility and the gaskets utilised between the hinged lid and main body are manufactured from silicone.

The enclosures may be fitted with combinations of suitably certified terminals mounted to DIN rails, which are then mounted to either mounting channels or a sub-panel secured to studs in the rear of the enclosure. The permitted terminal types are as follows:

Manufacturer	Type reference	Style	ATEX Certificate
Weidmuller	WDU	Screw	KEMA 98ATEX1683U
Weidmuller	WDU	Screw	KEMA 01ATEX2186U KEMA 08ATEX0014U KEMA 98ATEX1686U KEMA 99ATEX6545U SIRA 02ATEX3153U SIRA 02ATEX3242 SIRA 02ATEX3242U
Weidmuller	ZDU	Cage clamp	KEMA 97ATEX4677U
Weidmuller	ZDU	Cage clamp	KEMA 97ATEX2755U KEMA 99ATEX5514U KEMA 97ATEX2521U KEMA 01ATEX2106U KEMA 00ATEX2107U
Weidmuller	PDU	Spring (push in)	KEMA 06ATEX0177U
Klemsan Elektrik	AVK	Screw	FTZU 10ATEX0071U
Klemsan Elektrik	MVK	Screw	FTZU 09ATEX0252U
Klemsan Elektrik	PIK	Screw	FTZU 09ATEX0252U
Klemsan Elektrik	PUK	Screw	FTZU 09ATEX0252U
Klemsan Elektrik	PYK	Cage clamp	FTZU 09ATEX0252U
ABB	ZS	Screw	LCIE 08ATEX0007U
ABB	ZK	Cage clamp	LCIE 13ATEX3042U
WAGO	2001-****	Cage clamp	PTB 05ATEX1094U
WAGO	2002-****	Cage clamp	PTB 03ATEX1162U
WAGO	2004-****	Cage clamp	PTB 05ATEX1095U
WAGO	2006-****	Cage clamp	PTB 05ATEX1030U
WAGO	2010-****	Cage clamp	PTB 05ATEX1070U
WAGO	2016-****	Cage clamp	PTB 05ATEX1031U
Phoenix	UKH	Screw	KEMA 98ATEX1786U KEMA 99ATEX8332U
Phoenix	UT	Screw	KEMA 04ATEX2048U KEMA 06ATEX0017U
Phoenix	PT	Push in	PTB 09ATEX1111U PTB 09ATEX1112U

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 14ATEX3157**
Issue 1

Manufacturer	Type reference	Style	ATEX Certificate
Phoenix	ST	Cage clamp	KEMA 01ATEX2129U KEMA 00ATEX2052U KEMA 01ATEX2260U
Phoenix	QT	Cage clamp	KEMA 04ATEX2226U KEMA 03ATEX2557U KEMA 05ATEX2148U
Phoenix	UK	Screw	KEMA 96ATEX4370U KEMA 06ATEX0119U KEMA 98ATEX1651U KEMA 98ATEX1786U KEMA 99ATEX4487 U KEMA 96ATEX4370U

When Weidmüller WDU 1.5 or WDU 2.5 type of terminals are fitted, they are limited to a maximum current of 15 A.

The total dissipated power for the junction box shall be calculated in accordance with IEC 60079-7 and EN 60079-7, Annex E, E.2. The total calculated dissipated power shall not exceed the figures given in Tables 1 and 2 below.

Table 1: SJIC/SJICH Junction Boxes - Maximum power dissipation for screw type Ex e or Ex ia terminals

Type Reference	Size			Ex e or Ex ia Screw Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
SJIC*040403	102	102	76	2.0
SJIC*060403	152	102	76	2.0
SJIC*040404	102	102	102	4.1
SJIC*060404	152	102	102	5.2
SJIC /SJICH *060604	152	152	102	6.1
SJIC /SJICH *080804	203	203	102	8.4
SJIC /SJICH *100804	254	203	102	8.4
SJIC /SJICH *121005	305	254	127	8.4
SJIC /SJICH *060606	152	152	152	8.4
SJIC /SJICH *080606	203	152	152	10.5
SJIC /SJICH *080806	203	203	152	11.4
SJIC /SJICH *100806	254	203	152	12.2
SJIC /SJICH *101006	254	254	152	13.0
SJIC /SJICH *121006	305	254	152	14.0
SJIC /SJICH *121206	305	305	152	15.0
SJIC /SJICH *141206	356	305	152	16.0
SJIC /SJICH *161406	406	356	152	18.0

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Table 2: USF Junction Boxes - Maximum power dissipation for screw type Ex e or Ex ia terminals

Type Reference	Size			Ex e or Ex ia Screw Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
USF121206	305	305	152	15.0
USF161206	406	305	152	17.0
USF161606	406	406	152	19.0
USF162006	406	508	152	21.0
USF122006	305	508	152	19.0
USF201606	508	406	152	21.0
USF202006	508	508	152	24.3
USF241606	610	406	152	23.0
USF242006	610	508	152	24.5
USF242406	610	610	152	25.8
USF161208	406	305	203	20.6
USF161608	406	406	203	20.0
USF162008	406	508	203	23.0
USF201608	508	406	203	23.0
USF241608	610	406	203	26.0
USF202008	508	508	203	26.0
USF242008	610	508	203	31.5
USF302008	762	508	203	36.5
USF202408	508	610	203	31.5
USF242408	610	610	203	34.0
USF302408	762	610	203	39.0
USF362408	914	610	203	44.0
USF243008	610	762	203	39.0
USF303008	762	762	203	43.0
USF363008	914	762	203	48.1
USF363608	914	914	203	51.0
USF161210	406	305	254	23.5
USF161610	406	406	254	25.0
USF162010	406	508	254	26.0
USF201610	508	406	254	26.0
USF202010	508	508	254	30.0
USF202410	508	610	254	33.0
USF241610	610	406	254	31.0
USF242010	610	508	254	33.6
USF242410	610	610	254	34.0
USF243010	610	762	254	38.0

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 14ATEX3157**
Issue 1

Type Reference	Size			Ex e or Ex ia Screw Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
USF302010	762	508	254	36.0
USF302410	762	610	254	38.0
USF303010	762	762	254	40.0
USF362410	914	610	254	40.0
USF363010	914	762	254	44.0
USF363610	914	914	254	46.0
USF423610	1067	914	254	50.0
USF482410	1219	610	254	45.0
USF483610	1219	914	254	52.0
USF603610	1219	914	254	52.0
USF202012	508	508	305	36.0
USF242012	610	508	305	36.0
USF242412	610	610	305	38.0
USF302412	762	610	305	40.0
USF303012	762	914	305	46.0
USF362412	914	610	305	42.0
USF402412	1016	610	305	44.2
USF363012	914	762	305	46.0
USF363612	914	914	305	49.0
USF482412	1219	610	305	50.0
USF423612	1067	914	305	52.0
USF483612	1219	914	305	56.0
USF603612	1219	914	305	56.0
USF242416	610	610	406	42.0
USF363016	914	762	406	42.0
USF483616	1219	914	406	42.0
USF242420	610	610	508	57.3
USF302420	762	610	508	57.3
USF363020	914	762	508	57.3

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Table 3: SJIC/SJICH Junction Boxes - Maximum power dissipation for cage clamp/other types type Ex e or Ex ia terminals

Type Reference	Size			Ex e or Ex ia Cage Clamp Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
SJIC*040403	102	102	76	1.0
SJIC*060403	152	102	76	1.0
SJIC*040404	102	102	102	2.0
SJIC*060404	152	102	102	2.6
SJIC /SJICH *060604	152	152	102	3.0
SJIC /SJICH *080804	203	203	102	4.2
SJIC /SJICH *100804	254	203	102	4.2
SJIC /SJICH *121005	305	254	127	4.2
SJIC /SJICH *060606	152	152	152	4.2
SJIC /SJICH *080606	203	152	152	5.2
SJIC /SJICH *080806	203	203	152	5.7
SJIC /SJICH *100806	254	203	152	6.1
SJIC /SJICH *101006	254	254	152	6.5
SJIC /SJICH *121006	305	254	152	7.0
SJIC /SJICH *121206	305	305	152	7.5
SJIC /SJICH *141206	356	305	152	8.0
SJIC /SJICH *161406	406	356	152	9.0

Table 4: USF Junction Boxes - Maximum power dissipation for cage clamp/other types type Ex e or Ex ia terminals

Type Reference	Size			Ex e or Ex ia Cage Clamp Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
USF121206	305	305	152	7.5
USF161206	406	305	152	8.5
USF161606	406	406	152	9.5
USF162006	406	508	152	10.5
USF122006	305	508	152	9.5
USF201606	508	406	152	10.5
USF202006	508	508	152	12.1
USF241606	610	406	152	11.5
USF242006	610	508	152	12.1
USF242406	610	610	152	12.9
USF161208	406	305	203	10.3

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 14ATEX3157**
Issue 1

Type Reference	Size			Ex e or Ex ia Cage Clamp Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
USF161608	406	406	203	10.0
USF162008	406	508	203	11.5
USF201608	508	406	203	11.5
USF241608	610	406	203	13.0
USF202008	508	508	203	13.0
USF242008	610	508	203	25.7
USF302008	762	508	203	18.2
USF202408	508	610	203	15.7
USF242408	610	610	203	17.0
USF302408	762	610	203	19.5
USF362408	914	610	203	22.0
USF243008	610	762	203	19.5
USF303008	762	762	203	21.5
USF363008	914	762	203	24.0
USF363608	914	914	203	25.0
USF161210	406	305	254	11.7
USF161610	406	406	254	12.5
USF162010	406	508	254	13.0
USF201610	508	406	254	13.0
USF202010	508	508	254	15.0
USF202410	508	610	254	16.5
USF241610	610	406	254	15.5
USF242010	610	508	254	16.8
USF242410	610	610	254	17.0
USF243010	610	762	254	19.0
USF302010	762	508	254	19.0
USF302410	762	610	254	19.0
USF303010	762	762	254	20.0
USF362410	914	610	254	20.0
USF363010	914	762	254	22.0
USF363610	914	914	254	23.0
USF423610	1067	914	254	25.0
USF482410	1219	610	254	22.5
USF483610	1219	914	254	26.0
USF603610	1219	914	254	25.0
USF202012	508	508	305	19.0
USF242012	610	508	305	19.0
USF242412	610	610	305	19.0

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 14ATEX3157**
Issue 1

Type Reference	Size			Ex e or Ex ia Cage Clamp Type Terminals
	Height (mm)	Width (mm)	Depth (mm)	Maximum Power Dissipation (W) T6/T80°C at Ta = +40°C T5/T95°C at Ta = +55°C T4/T130°C at Ta = +90°C
USF302412	762	610	305	20.0
USF303012	762	914	305	23.0
USF362412	914	610	305	21.0
USF402412	1016	610	305	22.0
USF363012	914	762	305	23.0
USF363612	914	914	305	24.5
USF482412	1219	610	305	25.0
USF423612	1067	914	305	26.0
USF483612	1219	914	305	28.0
USF603612	1219	914	305	28.0
USF242416	610	610	406	21.0
USF363016	914	762	406	21.0
USF483616	1219	914	406	21.0
USF242420	610	610	508	28.6
USF302420	762	610	508	28.6
USF363020	914	762	508	28.6

Tables 1 to 4 represent the standard sizes of Junction Boxes and the Maximum Power Dissipation for each size. If non-standard size enclosures are produced that fall between the sizes listed in the table, the Maximum Power Dissipation of the next smaller standard size is to be applied. If non-standard size enclosures are produced that are larger than the largest size in the tables, up to the maximum size of enclosure allowed by the associated component certificate, the Maximum Power Dissipation of the largest standard size in the table will be applied. Non-standard size enclosures smaller than the smallest standard size in the table are not covered by this certification.

Suitably certified cable entry, blanking plugs and/or breather drain devices may be fitted into the enclosure via through holes, provided they meet the minimum IP and ambient requirements marked on the enclosure.

Variation 1 - This variation introduced the following changes:

i. Updated marking for SJIC/SJICH and USF Junction Boxes.
ii. Report R70086115A replaces R70005147A

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	23 September 2014	R70005147A	The release of the prime certificate.

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 14ATEX3157**
Issue 1

Issue	Date	Report number	Comment
1	18 November 2016	R70086115B	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)* • The introduction of Variation 1.

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 As defined, the Junction Boxes may also be manufactured to sizes not specified in the documentation provided that any given dimension is not larger than the respective dimension of the largest enclosure or smaller than the respective dimension of the smallest enclosure. The marked power rating shall be the power rating of the next smallest size of enclosure.

17.4 When terminals are installed the following shall be considered:

Temperature Classification/Surface Temperature	Minimum Service Temperature of Terminal
T6/T80°C	+80°C
T5/T95°C	+95°C
T4/T130°C	+130°C

17.5 Suitably certified cable entry devices may be fitted into the enclosure via through holes provided they meet the minimum IP requirements marked on the enclosure.

17.6 When the junction boxes are equipped by the manufacturer with wired terminals, a routine electric strength test shall be conducted in accordance with EN 60079-7 Clause 6.1.

17.7 The maximum dissipated power in watts for each junction box shall be calculated in accordance with EN 60079-7, Annex E, E.2 and shall not exceed that given in the Tables 1 to 4 detailed in the description.

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

17.8 The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

17.9 The manufacturer must ensure compliance with the Special Conditions for Safe Use detailed on the terminal certificates. Copies of the terminal Certificates are to be supplied to the end user to ensure compliance on installation of wiring and cross-connectors (where applicable).

17.10 When installing the following certified terminals, the ambient is to be marked accordingly:

Terminal certificate number	Lower ambient
KEMA 01ATEX2106U	-40°C
FTZU 10ATEX0071U	-20°C
KEMA 04ATEX2226U	-45°C
KEMA 03ATEX2557U	-45°C
KEMA 05ATEX2148U	-45°C
All others	-50°C

When Weidmüller WDU 1.5 or WDU 2.5 type of terminals are fitted, they are limited to a maximum current of 15 A.

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Certificate Annexe

Certificate Number: **Sira 14ATEX3157**

Equipment: **SJIC/SJICH and USF Junction Boxes**

Applicant: **Killark, A Div. of Hubbell Inc. (Delaware)**

Issue 0

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
50430	1 of 1	A	18 Sep 14	Nameplate USF Series for (junction box) terminal enclosures
50432	1 of 1	A	18 Sep 14	Nameplate SJIC/H Series for (junction box) terminal enclosures
50443	1 of 1	A	18 Sep 14	SJIC/SJICH Series junction box enclosure ATEX/IECEx
50444	1 of 1	A	18 Sep 14	USF Series terminal enclosures with or without gland plate assembly junction box

Issue 1

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
50430	1 of 1	C	11-Oct-16	Nameplate USF Series for (junction box) terminal enclosures

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom
Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org