

(1) EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 19ATEX 0748X**

(4) Product: **Solenoid valve coil, Type C-47**

Trademark : **SMS**

(5) Firm Name: **SMS Sanayi Malzemeleri Üretim ve Satışı A.Ş.**

(6) Firm Address (HQ) : **Bostancı Yolu Kuru Sokak No: 16/2 Y.Dudullu Ümraniye İstanbul – TURKEY**

Address (FAC.) : **Çerkeşli OSB Mah. İMES 5. Cadde No:6 Dilovası İMES OSB Kocaeli – TURKEY**

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

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of 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 confidential Report Nr: IEP.Rp.Ex.10-1583 date 13.12.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN 60079-0 : 2013 , EN 60079-18 : 2015 , EN 60079-31: 2014

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to 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 equipment or protective system shall include the following:



**II 2G Ex mb IIC T4-T5 Gb
II 2DEx tb IIC T(120-90) °C Db**

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



Date of Issue: 16.12.2019





(13) Schedule

(14) Certificate Nr: **IEP 19 ATEX 0748X**

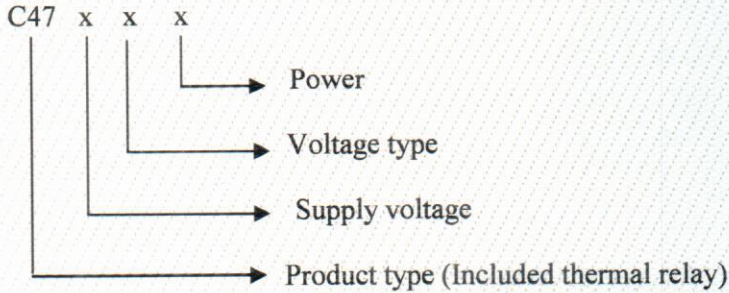
(15) Description of Equipment;

C-47 Type solenoid valve coil are used with by valves. Enamel wire insulation class is H. The coil is equipped with cable series HD 21.13.S1/HD.22.4.S4. Solenoid valve coil, Type C-47 is protection class of IP 67. Solenoid valve coil, Type C-47 is use as zone 1 and zone 21 that be used danger area determined in the EN 60079-10-1 / 2 standards. C-47 model ATEX coil have a 120 degree thermal relay. The thermal relay prevents the coil from operating. When the coil temperature returns to normal, the coil starts working again. Cable gland type ex e is ATEX certified. AR 16 ATEX 095X

Technical Parameters: C-47 Type solenoid valve coil

Voltage / Power /DC)	: (12 ~ 48) VDC / (10 ~ 25) W
IP XY protection	: IP 67 connection with cable
Ambient Temperature	: -10 °C ~ +30°C and +60 °C
Cable thickness	: 3 x 0,75 mm ² (Min)
Magnetic field	: 0,000035 mW/ mm ²

Code System: Solenoid valve coil, Type C-47



(IEP 19 ATEX 0748X) X Means: C-47 type solenoid valve coil are used with by valves.C-47 type solenoid valve coil installation must be in accordance with the operating instructions. If the specifications of the capsule mix and parts change, the certificate is invalid. Ta:+30°C degree for temperature class T5, Ta:+60°C degree for temperature class T4.

(16) Essential Health and Safety Requirements:

16.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

16.2 At the installation and the operation of the C-47 Type solenoid valve coil has to be observed manufacturer's manual 26 pages dated 05.09.2017.

Responsible Person:

Nurettin Terzioglu
Head of Certification Body





IEP ENERGY PETROLEUM INSTITUTE

(17) Certificate Nr: **IEP 19 ATEX 0748X**

(18) Special conditions for safe use: The installation and the operation of the C-47 Type solenoid valve coil have to confirm to the relevant national regulations.

(19) List of Documentation:

- ◆ User Manual : 26pages, dated 05.09.2017
- ◆ Component Lists : Part 2.1.2, dated 18.09.2019
- ◆ Mounting Pictures and Technical Drawings : Part 2.2.1,10 drawings
- ◆ Certificates and Test Reports :Part 3, 4, 5
- ◆ Drawings;

Drawing Nr;	Date;
C47 Exploded	18.09.2019
KLMYBOBSAG	17.11.2012
KLMYBOBSOL	17.11.2012
MIL28ATEX	17.01.2014
SOCKET SEAL	05.09.2019
MKR61BOBIN001	13.11.2012
PLS36EXTAPA-01	09.10.2013
PLS360006G30N	04.06.2012
SAC58ATEX	20.06.2013
TOPRAKBOBKAP-V2	30.10.2014
USACBOBYS-V2	30.10.2014

For the validity of analysis type certificate, the parts that are used in electrical actuator are confirmed in the part list 2.2.1date 18.09.2019.

Responsible Person:

Nurettin Terzioğlu
Head of Certification Body



Date of Issue: 16.12.2019

