

# Certificato di esame UE del tipo

EU-type examination certificate

## ECM 19 ATEX 5473 X

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B  
Issued according to 2014/34/EU Directive – Annex III - Module B



### Richiedente

#### Applicant

Ragione Sociale

TAVAN OMRAN SANAT (PEREX)

Company Name

Indirizzo

No 378, Between Mirzaye Shirazi and Sanayi, Motahari St, Tehran, Iran

Address

Luogo di produzione

No. 154, Zone E2, Shiraz Economic Area, Shiraz, Iran

Place of production

Apparecchiatura

Flameproof Enclosures as Distribution Board and Control Units and Signaling Devices

Equipment

Model EJB Series

Modo di protezione

Ex d, Ex t

Type of protection

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso. This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva.

ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n° PRD-2022-TOSUS38.

The examination and test results are recorded in confidential report no. PRD-2022-TOSUS38.

I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle Norme applicate: EN 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014.

The essential health and safety requirements are assured by compliance with applied Standard: EN 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014.

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato.

This EU-type examination certificate relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols:



II 2G Ex db IIB+H2 T6, T5, T4 Gb

II 2D Ex tb IIIC T85°C, T100°C, T135°C Db

Valsamoggia (BO)

Data di emissione – Emission date 09/10/2019

Data di revisione – Revision date 19/04/2022

Timbro



Firma autorizzata

Authorized signature

Amanda Payne  
(Deputy Manager)

Data di scadenza - Expiry date 18/04/2027

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.

This certificate, annex included, can only be reproduced in its entirety and without any change.



# Allegato I

## Annex I

### ECM 19 ATEX 5473 X



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#### Description of equipment:

The EJB series of enclosures made of metal materials have a type of protection by flameproof enclosures "d" and can be equipped with the all electrical equipment inside of enclosures provided that the maximum dissipation does not pass through the permissible limit, when these enclosures are used for control units fitted with a separately certified component of this schedule of limitations. The cover of enclosures can be installed threaded viewing window with tempered glass, for display equipment inside the enclosures according to schedule and related drawing. The gasket between flanged joint of enclosures and all other component can be installed on enclosures are made of silicon to guarantee the ingress protection IP66. The walls of the enclosures can be drilled with maximum and minimum size and threaded form as specified in the manufacturer document no. this annex. Each enclosure is provided with internal and external earthing screws or bolt and plate for installation electrical devices. The cover and body of enclosures fixed by screws detailed in scheduled drawings, all enclosures have an internal and external earth facility. When these enclosures are used for control units fitted with a selection components type M series to the requirements of this EN 60079-1: 2014 Standard.

**Materials of product:** Aluminum Alloy, Cast Iron, Stainless Steel

#### Electrical characteristics:

Maximum Rated Voltage: 1000 V

Maximum Total Current: 1000 A

Rated Frequency: 50~60 Hz

**Degree of protection (IP) by enclosures:** IP66

#### The maximum dissipated power at maximum ambient temperature: Ta= +60°C

Dimension of enclosures (mm), Tolerance: ±10mm							
REF. Code	EJB-1A	EJB-2A	EJB-3A	EJB-4A	EJB-5A	EJB-6A	EJB-7A
Length (mm)	304	364	432	567	632	870	1000
Width (mm)	204	284	332	387	432	650	700
Height (mm)	218	278	229	298	341	480	500
(MPD)/W	40	65	75	110	160	520	650
Dimension of enclosures (mm), Tolerance: ±10mm							
REF. Code	EJB-1B	EJB-2B	EJB-3B	EJB-4B	EJB-5B	EJB-6B	EJB-7B
Length (mm)	345	425	475	575	655	850	1000
Width (mm)	205	325	375	430	455	650	700
Height (mm)	175	230	240	245	280	400	400
(MPD)/W	35	60	65	105	150	500	600

The Maximum power dissipation (MPD) is valid for the temperature class: T6, T5 (1.5xMDP), T4 (3.0xMDP), the maximum allowable ambient and current will be marked on each arrangement.

#### "Ex d" components:

Model	Type of components	Description of components
M-SL	Signaling lamps	LED lights
M-PB	Normal pushbuttons	2NO/2NC Contact blocks
M-EP	Emergency stop pushbuttons	2NO/2NC Contact blocks
M-KP	Key emergency stop pushbuttons	2NO/2NC Contact blocks
M-RS	Command actuators	Rotary switches
M-HC	Command actuators	Isolators/Circuit breakers/Rotary switches
M-HD	Command actuators (Heavy Duty)	Isolators/Circuit breakers/Rotary switches

#### Routine test:

The manufacturer shall carry out the overpressure routine test according to clause 15.2.3.2 of EN 60079-1: 2014 Standard, at the pressure value 10.5 bar on all enclosures.

**Warning markings:**

**"WARNING - DO NOT OPEN WHEN ENERGIZED"**

**Schedule of limitations (special condition for safe use):**

The EJB series of enclosures are designed for ambient temperature of -30°C to +60°C.

The cable glands used for cable entries, blanking elements for unused holes and component used for accessories of enclosures should have separate certificate type of protection "d", in all case the minimum degree of protection IP66 shall be guaranteed according to IEC 60529 standard.

The non-threaded and threaded joint of EJB series are protected against corrosion using of ordinary industrial grease.

The cable fitted to the equipment must be capable of withstanding maximum temperatures of (90°C/T5, 120°C/T4) at the cable entry point.

**Descriptive documents:**

Schedule Drawing No.: EXT-D-2022-007

Technical File No.: EXT-F-2022-007

