



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EPIL 25.0003X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-08-20

Applicant: **Imen Tajhiz Tabnak Melal Engineering Company (Ltd.)**
Ground Floor, No. 4826, 4th Alley, Sulehaye Banafsh St., Sahand Industrial State, Islamshahr City, Central District,
Islamshahr County, Tehran Province, Iran
Tehran
Iran, Islamic Republic of

Equipment: **Explosion Proof Enclosure**

Optional accessory:

Type of Protection: **flameproof enclosures "d", dust ignition protection by enclosure "t"**

Marking: Ex db IIB+H2 T6...T4 Gb
Ex db IIB T6...T4 Gb
Ex tb IIIC T85°C...T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Seyed Mohsen Mirsadri

Position:

CEO and Certification Body Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

EPIL Testing, Inspection and Certification
Unit 12, No. 2, Boujari Sefat Dead-End, Corner of Fariman St.,
Bozorgmehr St., Vali-Asr Ave.,
Tehran 1416854523
Iran, Islamic Republic of





IECEx Certificate of Conformity

Certificate No.: **IECEx EPIL 25.0003X**

Page 2 of 3

Date of issue: 2025-08-20

Issue No: 0

Manufacturer: **Imen Takhiz Tabnak Melal Engineering Company (Ltd.)**
Ground Floor, No. 4826, 4th Alley, Sulehaye Banafsh St., Sahand Industrial State, Islamshahr City, Central District,
Islamshahr County, Tehran Province, Iran
Tehran
Iran, Islamic Republic of

Manufacturing
locations: **Imen Takhiz Tabnak Melal
Engineering Company (Ltd.)**
Ground Floor, No. 4826, 4th Alley,
Sulehaye Banafsh St., Sahand
Industrial State, Islamshahr City,
Central District, Islamshahr County,
Tehran Province, Iran
Tehran
Iran, Islamic Republic of

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IR/EPIL/ExTR25.0002/00](#)

Quality Assessment Report:

[IR/EPIL/QAR25.0004/00](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx EPIL 25.0003X**

Page 3 of 3

Date of issue: 2025-08-20

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The product includes 9 types of enclosures designed for use as junction boxes, local control stations, or distribution panels. These enclosures consist of standard junction boxes that ensure secure electrical connections while complying with IIB+H2 or IIB and Ex t IIIC standards, local control station enclosures that facilitate easy operation with controls mounted on the lid, and distribution panel enclosures that securely manage electrical power distribution. Additionally, all product categories can have suitable gasket and windows added as needed, allowing for the display of voltage, current, and other electrical parameters, thereby enhancing functionality and user convenience

SPECIFIC CONDITIONS OF USE: YES as shown below:

Potential electrostatic charging hazard: clean only with damp cloth.

Cable glands and any blanking elements mounted on the entries of the enclosure shall be certified according to flameproof characteristics of the equipment in sense of type of protection, Gas group, Ambient or service temperature.

Special ambient temperature -30°C up to 55°C and -30°C up to 65°C.

The flameproof joints are not intended to be repaired.

The equipment is always to be bonded via the suitable external earth connection.

In case of non-conductive paint on equipment enclosures, the thickness of paint is to be less than 0.2 mm for Group IIB+H2 and 2 mm for Group IIB.

The enclosure wall shall be drilled according the schedule drawing of the manufacturer.

Installation of cells and batteries is not allowed.

No additional holes other than those made by Manufacturer are permitted.

Breathing/venting fittings installed shall be appropriate, certified with suitable minimum marking: Ex db IIB+H2 or IIB Gb; Ex tb IIIC Db, IP65 according to enclosure ingress protection.

The components installed through enclosure lid cover can be only those specified in Manufacturer's documentation. These Mushroom Turn-to-release emergency Push Button with model DTAC-MTRE, Spring return push button with model DTAC-SRPB, MCB Selector Switch with model DTAC-MCBHSS, Key-operated mushroom emergency with model DTAC-KME, Rotary Selector Switch with model DTAC-RSS, Signal lamp with model DTAC-SL, Control switch with model DTAC-CS have been tested and assessed together with equipment DAPF and DAPB series, according to the manufacturer technical file description and drawings. The whole equipment DAPF and DAPB series, fitted with mentioned components, shall be consequently considered certificated according to standards mentioned in this Certificate.

Use M10 or M8 or M6 screw only (According to product model and enclosure size), quality A2-70 as minimum. Screw tightening torque for M10 is 36.5 Nm, M8 is 18.5 Nm and M6 is 7.6 Nm.

This product can be installed and connected together by suitable bushing with different optional thread sizes of DBU model that have been tested and assessed together with equipment DAPF and DAPB series, according to the manufacturer technical file description and drawings.

Annex:

[IECEx EPIL 25.0003X issue No. 0.pdf](#)

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
 Applicant: Imen Tajhiz Tabnak Melal
 Engineering Company (Ltd.)
 Apparatus: Explosion Proof Enclosure



Models Table section:

Models		
DAPF Series IIB+H2 Group IIIC Group	DAPF3020A	DAPF7050A
	DAPF3020AW	DAPF7050AW
	DAPF3020B	DAPF7050B
	DAPF3020BW	DAPF7050BW
	DAPF3027A	DAPF8057A
	DAPF3027AW	DAPF8057AW
	DAPF3027B	DAPF8057B
	DAPF3027BW	DAPF8057BW
	DAPF5040A	DAPF9063A
	DAPF5040AW	DAPF9063AW
	DAPF5040B	DAPF9063B
	DAPF5040BW	DAPF9063BW
DAPB Series IIB Group IIIC Group	DAPB5040A	DAPB7050B
	DAPB5040AW	DAPB7050BW
	DAPB5040B	DAPB8057A
	DAPB5040BW	DAPB8057AW
	DAPB7050A	DAPB8057B
	DAPB7050AW	DAPB8057BW

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



Actuator model table:

Actuator type	Model
Mushroom Turn-to-release emergency Push Button	DTAC-MTRE
Spring return push button	DTAC-SRPB
MCB Selector Switch	DTAC-MCBHSS
Key-operated mushroom emergency	DTAC-KME
Rotary Selector Switch	DTAC-RSS
Signal lamp	DTAC-SL
Control switch	DTAC-CS

Bushing model table:

Bushing type	Model
Bushing with M25x1.5-6g thread on both sides	DBU M25
Bushing with ¾ NPT thread on both sides	DBU 3/4 NPT
Bushing with M40x1.5-6g thread on both sides	DBU M40
Bushing with 1 1/4 NPT thread on both sides	DBU 1 1/4 NPT
Bushing with M63x1.5-6g thread on both sides	DBU M63
Bushing with 2 NPT thread on both sides	DBU 2 NPT

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
 Applicant: Imen Tajhiz Tabnak Melal
 Engineering Company (Ltd.)
 Apparatus: Explosion Proof Enclosure



DAPF/DAPB series Maximum allowed power dissipation table section:

Gas/Dust application:

DAPF series	Maximum allowed power dissipation (W) For Gas/Dust application								
	T amb: -20°C ≤ Ta ≤ 40°C			T amb: -30°C ≤ Ta ≤ 55°C			T amb: -30°C ≤ Ta ≤ 65°C		
	T6 T85°C	T5 T100°C	T4 T135°C	T6 T85°C	T5 T100°C	T4 T135°C	T6 T85°C	T5 T100°C	T4 T135°C
DAPF3020A	57 W	75 W	115 W	35 W	46 W	71 W	24 W	32 W	50 W
DAPF3020AW	57 W	75 W	115 W	35 W	46 W	71 W	24 W	32 W	50 W
DAPF3020B	57 W	75 W	115 W	35 W	46 W	71 W	24 W	32 W	50 W
DAPF3020BW	57 W	75 W	115 W	35 W	46 W	71 W	24 W	32 W	50 W
DAPF3027A	96 W	125 W	158 W	80 W	95 W	106 W	50 W	61 W	81 W
DAPF3027AW	96 W	125 W	158 W	80 W	95 W	106 W	50 W	61 W	81 W
DAPF3027B	96 W	125 W	158 W	80 W	95 W	106 W	50 W	61 W	81 W
DAPF3027BW	96 W	125 W	158 W	80 W	95 W	106 W	50 W	61 W	81 W
DAPF5040A	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPF5040AW	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPF5040B	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPF5040BW	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPF7050A	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPF7050AW	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPF7050B	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPF7050BW	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPF8057A	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPF8057AW	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPF8057B	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPF8057BW	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPF9063A	365 W	419 W	486 W	235 W	261 W	302 W	165 W	182 W	214 W
DAPF9063AW	365 W	419 W	486 W	235 W	261 W	302 W	165 W	182 W	214 W
DAPF9063B	365 W	419 W	486 W	235 W	261 W	302 W	165 W	182 W	214 W
DAPF9063BW	365 W	419 W	486 W	235 W	261 W	302 W	165 W	182 W	214 W

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



DAPB series	Maximum allowed power dissipation (W) For Gas/Dust application								
	T amb: -20°C ≤ Ta ≤ 40°C			T amb: -30°C ≤ Ta ≤ 55°C			T amb: -30°C ≤ Ta ≤ 65°C		
	T6 T85°C	T5 T100°C	T4 T135°C	T6 T85°C	T5 T100°C	T4 T135°C	T6 T85°C	T5 T100°C	T4 T135°C
DAPB5040A	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPB5040AW	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPB5040B	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPB5040BW	165 W	196 W	240 W	114 W	134 W	156 W	83 W	96 W	121 W
DAPB7050A	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPB7050AW	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPB7050B	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPB7050BW	235 W	275 W	321 W	160 W	173 W	206 W	108 W	124 W	153 W
DAPB8057A	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPB8057AW	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPB8057B	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W
DAPB8057BW	298 W	352 W	396 W	198 W	210 W	246 W	135 W	148 W	179 W

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



Dimensions table:

DAPF/DAPB series Mounting (Vertical):

DAPF Series:

Model	Outside Dimensions			Mounting		Tray Dimensions (mm)	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)		
DAPF 3020A & AW	300	200	180	124	340	230	130
DAPF 3020B & BW	315	215	180	124	355	230	130
DAPF 3027A & AW	300	270	188	194	340	230	200
DAPF 3027B & BW	315	285	188	194	355	230	200
DAPF 5040A & AW	500	400	307	290	540	390	290
DAPF 5040B & BW	500	400	307	290	540	390	290
DAPF 7050A & AW	700	500	307	392	740	590	390
DAPF 7050B & BW	700	500	307	392	740	590	390
DAPF 8057A & AW	800	570	307	458	840	685	455
DAPF 8057B & BW	800	570	307	458	840	685	455
DAPF 9063A & AW	900	630	315	518	940	770	500
DAPF 9063B & BW	900	630	315	518	940	770	500

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



DAPB Series:

Model	Outside Dimensions			Mounting		Tray Dimensions (mm)	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)		
DAPB 5040A & AW	500	400	307	290	540	406	306
DAPB 5040B & BW	500	400	307	290	540	406	306
DAPB 7050A & AW	700	500	307	392	740	600	400
DAPB 7050B & BW	700	500	307	392	740	600	400
DAPB 8057A & AW	800	570	307	458	840	690	460
DAPB 8057B & BW	800	570	307	458	840	690	460

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



DAPF/DAPB series Mounting (Horizontal):

DAPF Series:

Model	Outside Dimensions			Mounting		Tray Dimensions (mm)	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)		
DAPF 3020A & AW	300	200	180	224	240	230	130
DAPF 3020B & BW	315	215	180	224	255	230	130
DAPF 3027A & AW	300	270	188	224	310	230	200
DAPF 3027B & BW	315	285	188	224	325	230	200
DAPF 5040A & AW	500	400	307	390	440	390	290
DAPF 5040B & BW	500	400	307	390	440	390	290
DAPF 7050A & AW	700	500	307	592	540	590	390
DAPF 7050B & BW	700	500	307	592	540	590	390
DAPF 8057A & AW	800	570	307	688	610	685	455
DAPF 8057B & BW	800	570	307	688	610	685	455

Annex to Certificate: IECEx EPIL 25.0003X issue No. 0
Applicant: Imen Tajhiz Tabnak Melal
Engineering Company (Ltd.)
Apparatus: Explosion Proof Enclosure



DAPB Series:

Model	Outside Dimensions			Mounting		Tray Dimensions (mm)	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)		
DAPB 5040A & AW	500	400	307	390	440	406	306
DAPB 5040B & BW	500	400	307	390	440	406	306
DAPB 7050A & AW	700	500	307	592	540	600	400
DAPB 7050B & BW	700	500	307	592	540	600	400
DAPB 8057A & AW	800	570	307	688	610	690	460
DAPB 8057B & BW	800	570	307	688	610	690	460

Degree of protection (IP code): IP65

Routine test:

The manufacturer shall carry out the routine test prescribed at clauses 27 of the IEC 60079-0.

The overpressure test with static method shall be performed at 11.5 bar. The period of application of the pressure shall be at least 10 s.