

KSC POLAND Sp. z o.o.

(1) EU-TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

- (2) EU-Type Examination
Certificate No.: **KSCP 25ATEX0028X**, Issue: 0
- (3) Product: **Explosion-proof motor IExM-160-*******
- (4) Manufacturer: **INNOTECH Co.**
- (5) Address: **80, Hodusan-ro, Seo-gu, Incheon-si, 22744, Korea,
Republic of**
- (6) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (7) KSC POLAND Sp. z o.o., Notified Body number 2877, 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 confidential Report No. **KSCP/AR/25/Q00301**
- (8) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN IEC 60079-1:2014**
- (9) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (10) 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.
- (11) The marking of the product shall include the following:

 **II 2 G Ex db IIC T4 Gb,**



Signature
in the name of Notified Body

Katowice, 12th January 2026

KSC POLAND Sp. z o.o., Products Certification Body, accredited by PCA, No. AC 216

Chorzowska 150 Street, 40 – 101 Katowice, Poland

tel.: +48/32 784 12 15; e-mail: sales@exksc.eu; www.exksc.eu



KSC POLAND Sp. z o.o.

(13)

SCHEDULE

(14)

CERTIFICATE No.: KSCP 25ATEX0028X, Issue: 0

(15) Description of Product:

Explosion-proof Motor IExM-160-***** comprises a stator frame, end shield, terminal box all manufactured from aluminium alloy ALDC. 12.1. The drive shaft is supported by rolling element bearings and has an external cooling fan at the non-drive end. The end-shield and terminal box fasteners are hexagon socket head type with a A2-70 stainless steel. The model explanation and specification are given below

①	②	③	④	⑤	⑥
I	ExM	- 160	- ***	*	*
<p>① I is certificated product with IEC 60079-0 & IEC 60079-1 standard for Flameproof structure.</p> <p>② ExM is Explosion-proof Motor</p> <p>③ 160 is Core Diameter</p> <p>④ Out Put(kW)</p> <p>370 = 3.7 kW(5 HP) 220 = 2.2 kW(3 HP) 150 = 1.5 kW(2 HP) 110 = 1.1 kW(1.5 HP) 030 = 0.3 kW(0.4 HP) 040 = 0.4 kW(0.5 HP)</p> <p>⑤ Poles</p> <p>Blank = 2 Poles F = 4 Poles G = 6 Poles</p> <p>⑥ Input Voltage</p> <p>T = Triple Phase 440-415-380-220 V S = Single Phase 240-220 V</p>					



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Ratings:

Single or Three-phase, 220 ~ 440 VAC, 50/60 Hz, 0.3 ~ 3.7 kW, 1 130 ~ 3 545 rpm:

Model	Output (kW)	Poles (P)	Voltage (V)	Amps (A)	Hertz (Hz)	EFF. (%)	P. Factor (%)	RPM (rpm)	INS. (class)
IExM-160-370T	3.7	2	3-Ph 440	8.7	60	89.0	87.8	3,545	F
			3-Ph 415	10.6	50				
			3-Ph 380	7.7	60				
			3-Ph 380	9.1	50				
			3-Ph 220	12.2	60				
3-Ph 220	15.8	50							
IExM-160-220T	2.2	2	3-Ph 440	5.7	60	87.5	87.8	3,520	F
			3-Ph 415	8.9	50				
			3-Ph 380	4.7	60				
			3-Ph 380	6.4	50				
			3-Ph 220	7.8	60				
3-Ph 220	11.2	50							
IExM-160-150T	1.5	2	3-Ph 440	4.6	60	86.5	81.9	3,540	F
			3-Ph 415	5.7	50				
			3-Ph 380	3.4	60				
			3-Ph 380	4.3	50				
			3-Ph 220	5.7	60				
3-Ph 220	7.5	50							
IExM-160-150FS	1.5	4	1-Ph 240	8.5	60	84.4	95.1	1,580	F
			1-Ph 220	8.4	60				
			1-Ph 240	8.6	50				
			1-Ph 220	8.7	50				
IExM-160-150FT	1.5	4	3-Ph 440	3.2	60	87.4	81.0	1,580	F
			3-Ph 440	3.4	50				
			3-Ph 380	3.5	60				
			3-Ph 380	4.0	50				
			3-Ph 220	5.9	60				
3-Ph 220	7.1	50							
IExM-160-110FT	1.1	4	3-Ph 440	2.8	60	87.2	81.3	1,580	F
			3-Ph 440	2.6	50				
			3-Ph 380	2.8	60				
			3-Ph 380	2.4	50				
			3-Ph 220	4.4	60				
3-Ph 220	3.8	50							
IExM-160-030GS	0.3	6	1-Ph 240	2.1	60	66.5	86.3	1,140	F
			1-Ph 220	2.1	60				
			1-Ph 240	1.8	50				
			1-Ph 220	1.7	50				
IExM-160-040GT	0.4	6	3-Ph 440	0.9	60	73.6	66.6	1,130	F
			3-Ph 440	1.0	50				
			3-Ph 380	0.9	60				
			3-Ph 380	0.9	50				
			3-Ph 220	1.5	60				
3-Ph 220	1.7	50							

 Ambient temperature: $-20\text{ }^{\circ}\text{C} \leq T_{amb} \leq +50\text{ }^{\circ}\text{C}$

(16) Report Number:

– KSCP/AR/25/Q00301



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(17) Specific Conditions of Use:

- Some of equipment flame paths lengths have dimensions that exceed required dimensions in accordance with EN 60079-1. All information about flame paths dimensions of the equipment shall be obtained from the manufacturer. The flameproof joints are not intended to be repaired.
- Use special fasteners with a tensile stress of at least 700 MPa for M6, M8.

(18) Essential Health and Safety Requirements:

Essential Health and Safety Requirements are ensured by conformity with standards listed at item 9 of this certificate.

(19) Drawings and Documents:

- Documentation agreed, provided by manufacturer:

Title:	Drawing No.:	Rev. Level:	Date:
ASSEMBLY – 01 (IExM-160-030GS)	ITM-IExM-030GS-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-030GS)	ITM-IExM-030GS-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-030GS)	ITM-IExM-030GS-03	0	2025-08-27
FRONT COVER (IExM-160-030GS)	ITM-IExM-030GS-04	0	2025-08-27
BODY (IExM-160-030GS)	ITM-IExM-030GS-05	0	2025-08-27
BACK COVER (IExM-160-030GS)	ITM-IExM-030GS-06	0	2025-08-27
ROTOR SHAFT (IExM-160-030GS)	ITM-IExM-030GS-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-030GS)	ITM-IExM-030GS-08	0	2025-08-27
FAN COVER (IExM-160-030GS)	ITM-IExM-030GS-09	0	2025-08-27
TERMINAL BOX (IExM-160-030GS)	ITM-IExM-030GS-10	0	2025-08-27
TERMINAL COVER (IExM-160-030GS)	ITM-IExM-030GS-11	0	2025-08-27
FAN (IExM-160-030GS)	ITM-IExM-030GS-12	0	2025-08-27
CORE (IExM-160-030GS)	ITM-IExM-030GS-13	0	2025-08-27
NAME PLATE (IExM-160-030GS)	ITM-IExM-030GS-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-040GT)	ITM-IExM-040GT-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-040GT)	ITM-IExM-040GT-02	0	2025-08-27



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ASSEMBLY – 03 (Technical detail drawings) (IExM-160-040GT)	ITM-IExM-040GT-03	0	2025-08-27
FRONT COVER (IExM-160-040GT)	ITM-IExM-040GT-04	0	2025-08-27
BODY (IExM-160-040GT)	ITM-IExM-040GT-05	0	2025-08-27
BACK COVER (IExM-160-040GT)	ITM-IExM-040GT-06	0	2025-08-27
ROTOR SHAFT (IExM-160-040GT)	ITM-IExM-040GT-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-040GT)	ITM-IExM-040GT-08	0	2025-08-27
FAN COVER (IExM-160-040GT)	ITM-IExM-040GT-09	0	2025-08-27
TERMINAL BOX (IExM-160-040GT)	ITM-IExM-040GT-10	0	2025-08-27
TERMINAL COVER (IExM-160-040GT)	ITM-IExM-040GT-11	0	2025-08-27
FAN (IExM-160-040GT)	ITM-IExM-040GT-12	0	2025-08-27
CORE (IExM-160-040GT)	ITM-IExM-040GT-13	0	2025-08-27
NAME PLATE (IExM-160-040GT)	ITM-IExM-040GT-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-110FT)	ITM-IExM-110FT-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-110FT)	ITM-IExM-110FT-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-110FT)	ITM-IExM-110FT-03	0	2025-08-27
FRONT COVER (IExM-160-110FT)	ITM-IExM-110FT-04	0	2025-08-27
BODY (IExM-160-110FT)	ITM-IExM-110FT-05	0	2025-08-27
BACK COVER (IExM-160-110FT)	ITM-IExM-110FT-06	0	2025-08-27
ROTOR SHAFT (IExM-160-110FT)	ITM-IExM-110FT-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-110FT)	ITM-IExM-110FT-08	0	2025-08-27
FAN COVER (IExM-160-110FT)	ITM-IExM-110FT-09	0	2025-08-27
TERMINAL BOX (IExM-160-110FT)	ITM-IExM-110FT-10	0	2025-08-27
TERMINAL COVER (IExM-160-110FT)	ITM-IExM-110FT-11	0	2025-08-27
FAN (IExM-160-110FT)	ITM-IExM-110FT-12	0	2025-08-27
CORE (IExM-160-110FT)	ITM-IExM-110FT-13	0	2025-08-27
NAME PLATE (IExM-160-110FT)	ITM-IExM-110FT-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-150FS)	ITM-IExM-150FS-01	0	2025-08-27



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CERTIFICATE No.: KSCP 25ATEX0028X, Issue: 0

ASSEMBLY – 02 (IExM-160-150FS)	ITM-IExM-150FS-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-150FS)	ITM-IExM-150FS-03	0	2025-08-27
FRONT COVER (IExM-160-150FS)	ITM-IExM-150FS-04	0	2025-08-27
BODY (IExM-160-150FS)	ITM-IExM-150FS-05	0	2025-08-27
BACK COVER (IExM-160-150FS)	ITM-IExM-150FS-06	0	2025-08-27
ROTOR SHAFT (IExM-160-150FS)	ITM-IExM-150FS-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-150FS)	ITM-IExM-150FS-08	0	2025-08-27
FAN COVER (IExM-160-150FS)	ITM-IExM-150FS-09	0	2025-08-27
TERMINAL BOX (IExM-160-150FS)	ITM-IExM-150FS-10	0	2025-08-27
TERMINAL COVER (IExM-160-150FS)	ITM-IExM-150FS-11	0	2025-08-27
FAN (IExM-160-150FS)	ITM-IExM-150FS-12	0	2025-08-27
CORE (IExM-160-150FS)	ITM-IExM-150FS-13	0	2025-08-27
NAME PLATE (IExM-160-150FS)	ITM-IExM-150FS-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-150FT)	ITM-IExM-150FT-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-150FT)	ITM-IExM-150FT-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-150FT)	ITM-IExM-150FT-03	0	2025-08-27
FRONT COVER (IExM-160-150FT)	ITM-IExM-150FT-04	0	2025-08-27
BODY (IExM-160-150FT)	ITM-IExM-150FT-05	0	2025-08-27
BACK COVER (IExM-160-150FT)	ITM-IExM-150FT-06	0	2025-08-27
ROTOR SHAFT (IExM-160-150FT)	ITM-IExM-150FT-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-150FT)	ITM-IExM-150FT-08	0	2025-08-27
FAN COVER (IExM-160-150FT)	ITM-IExM-150FT-09	0	2025-08-27
TERMINAL BOX (IExM-160-150FT)	ITM-IExM-150FT-10	0	2025-08-27
TERMINAL COVER (IExM-160-150FT)	ITM-IExM-150FT-11	0	2025-08-27
FAN (IExM-160-150FT)	ITM-IExM-150FT-12	0	2025-08-27
CORE (IExM-160-150FT)	ITM-IExM-150FT-13	0	2025-08-27
NAME PLATE (IExM-160-150FT)	ITM-IExM-150FT-14	0	2025-08-27



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ASSEMBLY – 01 (IExM-160-150T)	ITM-IExM-150T-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-150T)	ITM-IExM-150T-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-150T)	ITM-IExM-150T-03	0	2025-08-27
FRONT COVER (IExM-160-150T)	ITM-IExM-150T-04	0	2025-08-27
BODY (IExM-160-150T)	ITM-IExM-150T-05	0	2025-08-27
BACK COVER (IExM-160-150T)	ITM-IExM-150T-06	0	2025-08-27
ROTOR SHAFT (IExM-160-150T)	ITM-IExM-150T-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-150T)	ITM-IExM-150T-08	0	2025-08-27
FAN COVER (IExM-160-150T)	ITM-IExM-150T-09	0	2025-08-27
TERMINAL BOX (IExM-160-150T)	ITM-IExM-150T-10	0	2025-08-27
TERMINAL COVER (IExM-160-150T)	ITM-IExM-150T-11	0	2025-08-27
FAN (IExM-160-150T)	ITM-IExM-150T-12	0	2025-08-27
CORE (IExM-160-150T)	ITM-IExM-150T-13	0	2025-08-27
NAME PLATE (IExM-160-150T)	ITM-IExM-150T-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-220T)	ITM-IExM-220T-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-220T)	ITM-IExM-220T-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-220T)	ITM-IExM-220T-03	0	2025-08-27
FRONT COVER (IExM-160-220T)	ITM-IExM-220T-04	0	2025-08-27
BODY (IExM-160-220T)	ITM-IExM-220T-05	0	2025-08-27
BACK COVER (IExM-160-220T)	ITM-IExM-220T-06	0	2025-08-27
ROTOR SHAFT (IExM-160-220T)	ITM-IExM-220T-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-220T)	ITM-IExM-220T-08	0	2025-08-27
FAN COVER (IExM-160-220T)	ITM-IExM-220T-09	0	2025-08-27
TERMINAL BOX (IExM-160-220T)	ITM-IExM-220T-10	0	2025-08-27
TERMINAL COVER (IExM-160-220T)	ITM-IExM-220T-11	0	2025-08-27
FAN (IExM-160-220T)	ITM-IExM-220T-12	0	2025-08-27
CORE (IExM-160-220T)	ITM-IExM-220T-13	0	2025-08-27



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NAME PLATE (IExM-160-220T)	ITM-IExM-220T-14	0	2025-08-27
ASSEMBLY – 01 (IExM-160-370T)	ITM-IExM-370T-01	0	2025-08-27
ASSEMBLY – 02 (IExM-160-370T)	ITM-IExM-370T-02	0	2025-08-27
ASSEMBLY – 03 (Technical detail drawings) (IExM-160-370T)	ITM-IExM-370T-03	0	2025-08-27
FRONT COVER (IExM-160-370T)	ITM-IExM-370T-04	0	2025-08-27
BODY (IExM-160-370T)	ITM-IExM-370T-05	0	2025-08-27
BACK COVER (IExM-160-370T)	ITM-IExM-370T-06	0	2025-08-27
ROTOR SHAFT (IExM-160-370T)	ITM-IExM-370T-07	0	2025-08-27
ROTOR ASS'Y (IExM-160-370T)	ITM-IExM-370T-08	0	2025-08-27
FAN COVER (IExM-160-370T)	ITM-IExM-370T-09	0	2025-08-27
TERMINAL BOX (IExM-160-370T)	ITM-IExM-370T-10	0	2025-08-27
TERMINAL COVER (IExM-160-370T)	ITM-IExM-370T-11	0	2025-08-27
FAN (IExM-160-370T)	ITM-IExM-370T-12	0	2025-08-27
CORE (IExM-160-370T)	ITM-IExM-370T-13	0	2025-08-27

– Product instruction:

Title:	Document No.:	Rev. Level:	Date:
INSTRUCTIONS MANUAL: EXPLOSION PROOF MOTORS	IExM-160-IT-01	0	-

A detailed list of documents necessary to identify the approved type is included in the Report referred to in point 16 of this certificate.

(20) Certificate history:

Issue	Issue date	Notes
0	12 th January 2026	Initial certification



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