

한국전기안전공사 안전인증센터

KESCO Safety Test Center
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시험 성적서

TEST REPORT

성적서 번호: STC-B18-084
(Report No.)

페이지(Page of) : (1)/(총 6)



1. 신청자

Customer

○ 기 관 명 : (주)건음알엔에스
Name

○ 주 소 : 경기도 용인시 처인구 백암면 청계로67번길 24, 1층
Address

2. 시험성적서 용도 : 참고시험

Use of Test Report

3. 시험대상 품목 : 리프트용 파워 덕트 (Lift Power Duct)

Product

○ 모델명 : GH25
Model

○ 제조 번호: 해당없음
Serial No.

4. 시험 기간 : 2018.10.16.

Test Period

5. 시험 방법/항목 : IEC 60529 Ed. 2.2: 2013 / IP54 (CATEGORY 2)

Test Method/Item

6. 시험 결과 : 적합

Test Result

확 인
Conformation

작성자
Tested by

성명 김 보 램 (서명)

Name B. R. Kim Signature

승인자

Approved by

성명 김 용 진 (서명)

Name Y. J. Kim Signature

직책: 기술책임자

Position

☐ 이 시험결과는 의뢰자가 제시한 시료 및 시료명에만 한정됩니다.

The results shown in this test report refer only to the sample tested unless otherwise stated.

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The original document produced by KESCO Safety Test Center is valid and the copy of this document is invalid

2018. 11. 13.

한국전기안전공사 안전인증센터장

The head of Korea Electrical Safety Corporation Safety Test Center

☐ 16270 경기도 수원시 장안구 정조로 933번길 21(영화동)

21, Jeongjo-Ro, 933beon-Gil, Jangan-Gu, Suwon-City, Gyeonggi-Do, 16270, Korea

Test Report

IEC 60529 Ed. 2.2: 2013

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Customer: (주)건음알엔에스

Product: 리프트용 파워 닥트 (Lift Power Duct)

Model: GH25

1. 시험 환경 (Test Environment)

- 온도 (Temperature): $(22 \pm 1) ^\circ\text{C}$, 상대습도 (Relative Humidity): $(39 \pm 3) \%$
- 시험장소 (Location): Dust Chamber, IP 주수 시험장 (IP Water Test Lab.)

2. 시험에 사용된 장비 명세 (List of Used Equipment)

장비번호 Equipment	사용장비명 Description	제조회사 Manufacturer	형식 Model	제조번호 Serial No.	교정유효일자 Calibration Valid Until
A-26-04	HYGRO METER	SATO	HIGHEST2	74208	2019.05.17.
A-74-01	Dust Chamber	KOBOLD	-	EN837-3	2019.08.16.
A-74-01	Dust Chamber	ELSTER	BK6	8983	2019.08.23.
A-75-02	Handheld spray nozzle	ED & D	SNZ-01	WO350118	2019.03.14.
B-01-02	Stop Watch	Time Art	PC-90	14101582-1	2019.09.20.
B-03-05	Tape Measure	KOMELON	KMC-32D	-	2019.04.08.

3. 시험일자 (Test Date)

Date of receipt of test item.....:	2018.10.10.
Test Period.....:	2018.10.16.

4. 시험 조건 (Test Condition): IP54 (CATEGORY 2)

5. 시험 결과 (Test Results): Pass

1) Dust Test

Test results for dust protection (first characteristic numeral 5)

Description of test:

1. Degree of protection.

Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety

2. Category for enclosure;

☐ Category 1☒ Category 2☐ Category 1 and Category 2

3. Testing method:

- The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is $50 \mu\text{m}$ and the nominal width between wires was $75 \mu\text{m}$.
- The amount of talcum powder was 2 kg per cubic meter of the chamber volume.
- The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume.

Category 2

- ☒ The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h

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Product: 리프트용 파워 덕트 (Lift Power Duct)

Model: GH25

4. Test conditions

The enclosure shall be deemed category 1 unless the relevant product standard for the equipment specifies that the enclosure is category 2

5. Acceptance conditions

The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety. Except for special cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distances.

6. Test result: Pass

2) Water Test

Test results for water protection (second characteristic numeral 4)

Description of test

1. Degree of protection.

Water splashed against the enclosure from any direction shall have no harmful effects.

2. Testing method :

- ☐ A) Test device to verify protection against spraying and splashing water(oscillating tube)
☒ B) Hand-held device to verify protection against spraying and splashing water(spray nozzle)

- Test condition:

- ☐ A) 0.07 L/min $\pm$ 5 % per hole;

Tube radius R : mm

Number of open holes: N

Total water flow: L/min

- ☒ B) 10 L/min $\pm$ 5 %

A) The tube is caused to oscillate through an angle of almost 360°, 180° on either side of flow vertical, the time for one complete oscillation (2 x 360°) being about 12 s.

B) The counterbalanced shield is removed from the spray nozzle and the enclosure is sprayed from all practicable directions.

- Minimum test duration: 5 min

☐ Distance from the tube to the enclosure surface: 200 mm max.

☒ Distance from the spray to the enclosure surface: 300 ~ 500 mm

3. Acceptance conditions:

Dielectric strength test: N/A

It shall not;

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

4. Test result: Pass

Photo Documentation

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Model: GH25



[Specimen]

1. Test Condition

1) Dust test for first characteristic numeral 5 (CATEGORY 2)

◦ Duration of time: 8 h

2) Water test for second characteristic numeral 4

◦ Duration of time: 5 min

◦ Delivery rate: 10 L/min

2. Applicant & Model

◦ (주)건음알엔에스 / GH25

Photo Documentation

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Customer: (주)건음알엔에스

Product: 리프트용 파워 닥트 (Lift Power Duct)

Model: GH25

3. Test Figure

1) Dust Test



[Before the Test]



[After the Test]

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Customer: (주)건음알엔에스

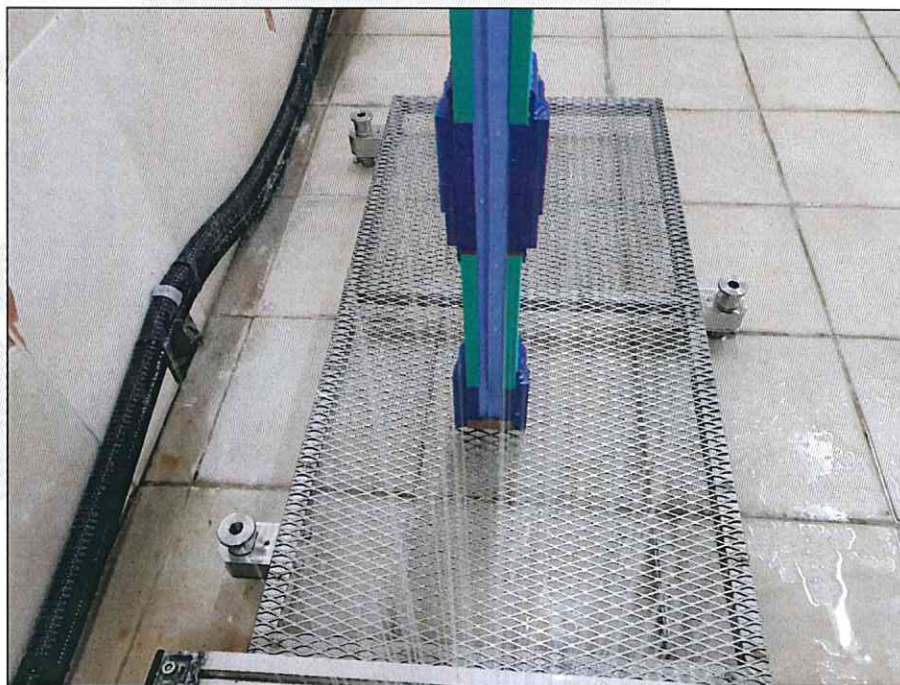
Product: 리프트용 파워 닥트 (Lift Power Duct)

Model: GH25

2) Water Test



[During the Test]



[During the Test]