Report No.: H23034E-2 9th May, 2003

TEST REPORT

ON Selector Switch

Note: 1. This report is valid for fhe apparatus.

2. Only the original report is guaranteed.

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KOREA INSTITUTE OF MACHINERY & MATERIALS(KIMM)

An independent, government designated, nonprofit institute for ship safety

TEST CERTIFICATE

OF

ELECTRICAL APPARATUS FOR EXPLOSIVE GAS ATMOSPHERES (Issued under Authority vested by the Government of Republic of Korea)

Cert. No. : EX23	IP907	Date : 9th May, 2003			
Description of appar	ratus : Selector Switch				
Model(Type)	: KSL25W Series, KSL30	: KSL25W Series, KSL30WSeries			
Manufacturer(name)	: KUN HUNG ELECTRIC	CO., LTD.			
(address)	: #113-4, Changan-dong,	: #113-4, Changan-dong, Dongdaemoon-ku, Seoul, Korea			
Drawing No.	: CS-25L3-019				
Manufacturer's seri	al No. : not applicablle	not applicablle			
	in accordance with the the to comply with the requirem				
	·	STE O MANNERS			
Type of protection	: IP65	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Test report No.	: KIMM No. H23034E-2	IS (AHTWED)			
Marking	: KIMM No. EX23IP907, IP65	13/ KININ /5/			
B. S. C	hoi	Chunt Far AND SAFELY SE			
Beom - Shik Choi		Chun-Ha Lee, Ph. D.			
Engineer, Explosion	Proof Department,	Director, Explosion Proof Department,			
Industrial Safety Re	search Center	Industrial Safety Research Center			

TEST REPORT

Date: 9th May, 2003

1. Name of test

: Dust & Water Protection Test

2. Applicant (name)

KUN HUNG ELECTRIC CO., LTD.

(address)

#113-4, Changan-dong, Dongdaemoon-ku, Seoul, Korea

3. Manufacturer

ditto

4. Test specimen

1) Name

Selector Switch

2) Model(Type)

: KSL25W Series, KSL30W Series

3) Type of protection: IP65

4) Construction

: Refer to Appendix 4.

5. Applied Standard

: IEC 60529

6. Test Period

1st May, 2003 ~ 9th May, 2003

7. Test Result: Test specimen satisfied the performance criteria in IEC-Pub. 60529

(Refer to test results of Appendix 1.)

This is to certify that the above mentioned test have been properly carried out.

Tested by:

Approved by:

Beom-Shik, Choi

Engineer, Explosion Proof Department,

B. S. Choi

Industrial Safety Research Center

Chun-Ha Lee, Ph. D.

Director, Explosion Proof Department

Industrial Safety Research Center

(This report consists of 5 pages)

TEST RESULTS

Test Item	Tested	Results	Remarks
I. Degree of protection			
1. First characteristic numeral	0	Satisfactory	Refer to Appendix 2.
2. Second characteristic numeral	0	Satisfactory	Refer to Appendix 3.
II. Marking	0	Satisfactory	IP65
			1
10			
a			

Appendix 2.

Test results for dust protection (first characteristic numeral 6)

Description of test

1. Degree of protection:

No ingress of dust.

2. Testing method:

The test was made using equipment incorporating with the principles in which talcum powder was maintained in suspension in a suitable closed test chamber. The talcum powder used should pass a square-meshed sieve whose nominal wire diameter was 50μ m and the nominal width between wires was 75μ m.

The amount of talcum powder was 2kg per cubic meter of the chamber volume.

The equipment under test was 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 test. The test shall be continued for a period of 8h.

3. Test results: No ingress of dust

Appendix 3.

Test results for water protection (second characteristic numeral 5)

Description of test

1. Degree of protection:

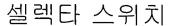
Water from projected by a nozzle against the enclosure from any direction shall have no harmful effect.

2. Testing method:

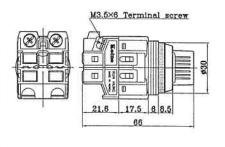
The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle.

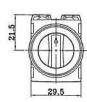
The conditions were as follows.

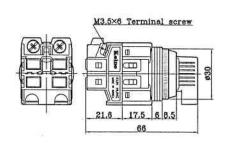
- nozzle internal diameter : 6.3mm;
- delivery rate : $12.5 \ell / \min \pm 5\%$;
- water pressure : to be adjusted to achieve the specified delivery rate;
- test duration per square metre of enclosure surface area likely to be sprayed : 1min;
- minimum test duration : 3 min;
- distance from the nozzle to the machine surface : approximately 3m.
- 3. Test results: No Harmful immersion was found

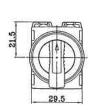


KSL25WS2 KSL25WS3 KSL25WAS3 KSL25WL2 KSL25WL3 KSL25WAL3

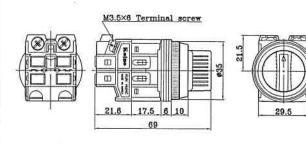


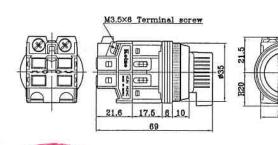






KSL30WS2 KSL30WS3 KSL30WAS3 KSL30WL2 KSL30WL3 KSL30WAL3





SYCH AND SAFE 최초 설계

외형치수도 TITLE:

DATE

2003 .

Rev.

DWG No.:

CS-25L3-019

考加力 2002,10 PREPARED REVIEWED

APPROVED

MODEL:

DESCRIPTION

Qty. :

Scale: 45/100

KSL Series