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TYPE EXAMINATION CERTIFICATE

FOR LIFTCOMPONENTS

Issued by Liftinstituut B.V.

Certificate no.	:	NL17-400-1002-061-22 Revision no.: 1
Description of the product	:	Car door locking device for horizontal automatically operated sliding doors
Trademark	:	Merih
Type no.	:	KLT 006
Name and address of the manufacturer	:	Merih Asansör Sanayi ve Ticaret A.Ş. Başkent OSB Recep Tayip Erdoğan Bulvari No:8, Maliköy, Temelli, Sincan, Ankara Türkiye
Name and address of the certificate holder	:	Merih Asansör Sanayi ve Ticaret A.Ş. Başkent OSB Recep Tayip Erdoğan Bulvari No:8, Maliköy, Temelli, Sincan, Ankara Türkiye
Certificate based on the following standard	:	Parts of: EN 81-20:2020 and EN 81-50:2020
Test laboratory	:	None
Date and number of the laboratory report	:	None
Date of type examination	:	April – July 2017, December 2021
Additional document with this certificate	:	Report belonging to the type examination certificate no.: NL17-400-1002-061-22 rev.1
Additional remarks	:	This revision replaces certificate NL17-400-1002-061-22 rev. - of 27-07-2017 Max. rated voltage: 230 VAC Max. rated current: 0.5 A/1.0A Furthermore see chapter 5 of the report belonging to this type examination certificate.
Conclusion	:	The lift component meets the requirements referred to in this certificate taking into account any additional remarks mentioned above.

Amsterdam

Date : 10-12-2021
Valid until : 10-12-2026

ing A.J. van Ommen
International Business Manager

Certification decision by

Report type-examination

Report belonging to type-examination certificate number	:	NL17-400-1002-061-22
Date of issue of original certificate	:	July 27, 2017
Certificate applies to	:	Lift Component
Revision number / date	:	1 / 10-12-2021
Requirements	:	Standards: EN 81-20:2020, EN 81-50:2020
Project number	:	P170131, P210335

1. General specifications

Description of the product	:	Car door locking device for horizontal automatically sliding doors
Trademark	:	Merih
Type no.	:	KLT 006
Name and address of the manufacturer	:	Merih Asansör Sanayi ve Ticaret A.Ş. Başkent OSB Recep Tayip Erdoğan Bulvari No:8, Maliköy, Temelli, Sincan, Ankara Türkiye
Laboratory	:	None
Address of examined lift component	:	Merih Asansör Sanayi ve Ticaret A.Ş. Başkent OSB Recep Tayip Erdoğan Bulvari No:8, Maliköy, Temelli, Sincan, Ankara Türkiye
Data of examination	:	April – July 2017, December 2021
Examination performed by	:	André van den Burg, Tolga Goktas

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2. Description component

The KLT 006 is a mechanical car door locking device.
The locking is performed by the lock beak assembly, connected to the car door skate assembly. The door locking device can be used on Merih horizontal automatically sliding car doors.
Locking takes place by an internal guided spring which is installed around a fork that cannot be removed or lost. In case of malfunctioning of the spring, the locking is guaranteed by gravity due to the weight of the skate cam.

OPERATION:
When the car is moving, the blades of the skate are closed.
When the car arrives at a landing, it stops and the car door motor moves the drive belt which pulls the panel motor shaft, causing turning of the lock motion sheet. In this position, the lock beak assembly moves, and due to the skate lock guide roller is moving down the skate lock ramp, the skate blades can open as much as allowed by the rollers of the landing lock device and so it unlocks the car door.

For re-locking, the motor moves the belt for the closing of the car door.
When the skate with the opened arms arrives to the end of their horizontal movement, due to the closing of the car door, the lock motion sheet turns again, the skate arms close, the skate lock guide roller is lifted due to the skate lock ramp, the lock can drop and locks the car door.

Main characteristic of the KLT 006 is that it restricts the opening of the car door in case the car door is outside the unlocking zone. The arms of the skate will open totally because there is no landing lock device in front of the skate.
If the arms open completely, due to the internal articulation and further movement of the lock motion sheet and skate cam, the locking remains activated. In this way the car door remains locked and it will not be possible to open the car door between landings. In this way EN81-20 clause 5.3.15 is met.

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GENERAL DATA

Type	KLT 006
Width of skate arms totally retracted	57 mm
Width of skate arms totally opened	98 mm
Width of skate arms opened when unlocked	90 mm

Safety contacts are used for the monitoring of proper locking.

CONTACT #1

Manufacturer	Merih
Contact type	MRH
U_e / I_e	230 VAC / 0,5 A AC

CONTACT #2

Manufacturer	Merih
Contact type	2000010328
U_e / I_e	230 VAC / 1 A AC

See annex 1 for a general overview of the product.

3. Examinations and tests

The examination covered a check whether compliance with the Lifts Directive 2014/33/EU is met, based on the harmonized product standards EN81-20:2020 and EN81-50:2020.

The examination included:

- Examination of the technical file (See annex 2):
- Examination of the representative model in order to establish conformity with the technical file.
- Inspections and tests to check compliance with the requirements.

The car door locking device is regarded as a safety component and is therefore tested and verified according the requirements stated in clause 5.2 of EN 81-50:2020.

4.1 Mechanical tests

Endurance test

According 5.2.2.2.2 of EN 81-50 an endurance test must be made. These tests are performed at Merih on their test stand. A complete Merih side opening car door was driven by the car door motor at 16 cycles per minute. A mechanical counter was installed to keep track of the number of complete cycles. The testing apparatus was on

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critical locations secured by Liftinstituut. The test was started with Liftinstituut present and Liftinstituut checked the final result.

Test details
Start date May 16th, 2017
End date June 28th, 2017
Number of cycles 1.000.000
Test result: OK

Static test
According to 5.2.2.2.3 of EN 81-50 a static test must be made. To perform the static test a force of 1000N was applied on consecutively the locking device and on the door panel at 1 m height, in opening direction. These tests are performed at Merih with Liftinstituut present.

Test details
Test date July 11th , 2017
Test weight 1000N
Test result: OK

Dynamic test
According to 5.2.2.2.4 of EN 81-50 a dynamic test must be made. These tests are performed at Merih with Liftinstituut present.

Test details
Test date July 11th, 2017
Test weight 4 kg
Dropping distance 50 cm
Test result: OK

4.2 Electrical tests
Electrical tests for MRH contact have been performed during the certification of the Merih KLT 003 locking device. (NL09-400-1002-061-04 Rev.3).
The 2000010328 contact has been certified by notified body TUV Austria therefore tests were not repeated.

4. Results

After the final examination the product and the technical file were found in accordance with the requirements. The functional tests passed without remarks.
The load tests passed without remarks and did not lead to permanent deformations or loss of stability.

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5. Conditions

On the type-examination certificate the following conditions apply:

- The KLT 006 shall be used for Merih horizontal power operated sliding car doors only.
- Door types on which the KLT 006 is allowed to be used are C01, B01, B20, H-Max and L-Fit. Allowable door opening width and height are written in the applicable door certificates.
- Locking distance before making contact must be at least 7 mm
- The user manual shall be provided with the component.
- Each locking device contact shall be applied within the rated voltage and rated current.

6. Conclusions

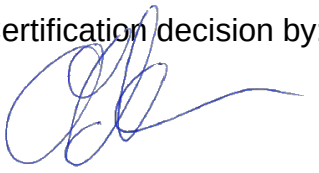
Based upon the results of the type-examination Liftinstituut B.V. issues a type-examination certificate.

The type-examination certificate is only valid for products which are in conformity with the same specifications as the type certified product. The type-examination certificate is issued based on the requirements that are valid at the date of issue. In case of changes of the product specifications, changes in the requirements or changes in the state of the art the certificate holder shall request Liftinstituut B.V. to reconsider the validity of the type-examination certificate.

Prepared by:

André van den Burg
Product specialist Certification

Certification decision by:



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Annexes

Annex 1a : KLT 006

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Annex 1b : KLT 006

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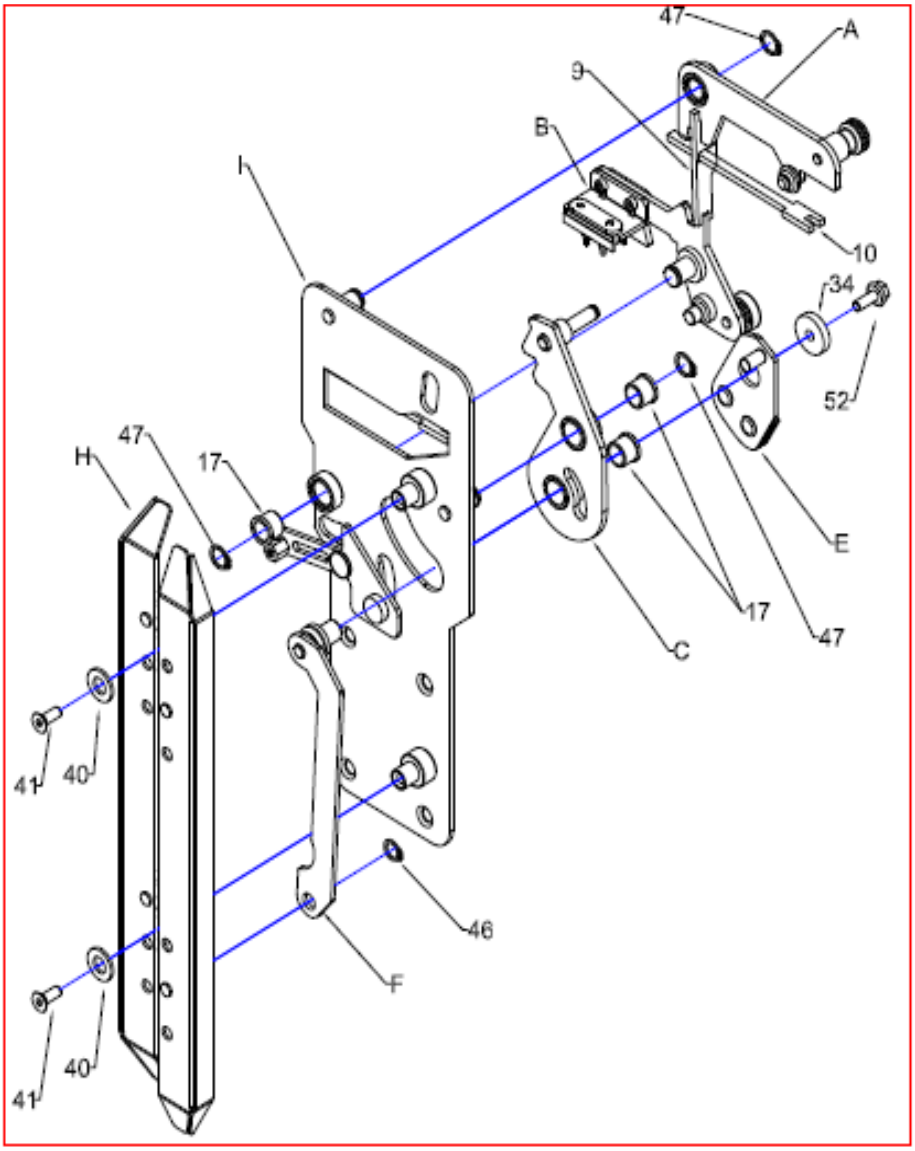
Annex 1c : KLT 006



A - Skate blade lock sheet
B - Skate lock closure sheet
C - Lock motion sheet
D - Safety sheet (manual emergency unlocking)
E - Skate cam
F - Blade motion arm
I - Skate trunk sheet
H - Skate blades

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Annex 2 Documents of the Technical File which were subject of the examination

Title	Document number	Date
Car door lock assbly	Rev.00	16-06-2017
KLT 006 document & B01 landing and car doors	Rev.07	16-05-2017
C01 landing and car doors	Rev.06	30-06-2017
B20 landing and car doors	Rev.02	03-05-2017
B20 car door locking	Rev.01	11-07-2017

Annex 3 Revision of the certificate and its report

Rev.:	Date	Summary of revision
-	27-07-2017	Original
1	10-12-2021	Added contact of Merih, “2000010328” Renewal type examination for another 5 years Updated to EN81-20:2020 and EN81-50:2020

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