

## IEC SYSTEM OF CONFORMITY ASSESSMENT SCHEMES FOR ELECTROTECHNICAL EQUIPMENT AND COMPONENTS (IECEE) CB SCHEME

<b>Issued by:</b>	DEKRA Certification B.V.		
<b>Product:</b>	Moulded case circuit breaker used as a manual motor starter		
<b>Applicant:</b>	LSIS Co., Ltd.	127, LS-ro, Dongan-gu, Anyang-si,	Korea, Republic of Gyeonggi-do
<b>Manufacturer:</b>	LSIS Co., Ltd.	127, LS-ro, Dongan-gu, Anyang-si,	Korea, Republic of Gyeonggi-do
<b>Factory:</b>	LSIS Co., Ltd., Cheongju Plant	95, Baekbong-ro, Heungdeok-gu,	Korea, Republic of Cheongju-si, Chungcheongbuk-do
<b>Rating and principal characteristics:</b>	Ue up to 690 V; Ie up to 100 A; 3 pole; Shunt release; UV release and auxiliary contact; see annex for further ratings		
<b>Trade mark (if any):</b>	LS		
<b>Type of Manufacturer's Testing Laboratories used:</b>	WMT		
<b>Model/Type reference:</b>	MMS-32S/H/HI; MMS-32 RCS; MMS-63S/H/HI; MMS-100S/H/HI; FX-...; LX.....		
<b>Additional information:</b>	This CB Test Certificate replaces CB NL-15408/M1/A2.; A1: editorial modifications. Date of first issue: 2013-07-11.		
<b>Sample of product tested to be in conformity with IEC:</b>	<b>Standard(s):</b> 60947-2(ed.4);am1 60947-5-1(ed.3);am1		
<b>Test Report Ref. No.:</b>	2168876.50 .. 55; 2168876.60 .. 61; 2129426.50 ..51; 2116563.70 .. 74; 2038108.51 .. 58		

This CB Test Certificate is issued by the National Certification Body:

DEKRA Certification B.V.  
 Meander 1051, 6825 MJ  
 Arnhem  
 The Netherlands



Signed by: H.L. Schendstok



Date of issue: 2016-03-09

**Product data:**

Type(s)	: MMS-32S
Number of poles	: 3
Rated impulse voltage	: 6 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 0,16 - 40 A
I <sub>cu</sub>	: 30 kA at 240 V, 15 kA at 415 V, 6 kA at 440 V, 5 kA at 500 V, 3 kA at 690 V.
I <sub>cs</sub>	: 22 kA at 240 V, 11 kA at 415 V, 4 kA at 440 V, 4 kA at 500 V, 3 kA at 690 V.
Type(s)	: MMS-32H, MMS-32HI, MMS-32H RCS
Number of poles	: 3
Rated impulse voltage	: 6 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 0,16 - 40 A
I <sub>cu</sub>	: 100 kA at 240 V, 50 kA at 415 V, 20 kA at 440 V, 25 kA at 440 V (only for 17-32 A), 10 kA at 500 V, 4 kA at 690 V.
I <sub>cs</sub>	: 100 kA at 240 V, 38 kA at 415 V, 15 kA at 440 V, 8 kA at 500 V, 4 kA at 690 V.
Type(s)	: MMS-63S
Number of poles	: 3
Rated impulse voltage	: 8 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 10 - 65 A
I <sub>cu</sub>	: 50 kA at 240 V, 25 kA at 415 V, 10 kA at 440 V, 6 kA at 500 V, 4 kA at 690 V.
I <sub>cs</sub>	: 38 kA at 240 V, 19 kA at 415 V, 8 kA at 440 V, 5 kA at 500 V, 3 kA at 690 V.

Type(s)	: MMS-63H, MMS-63HI
Number of poles	: 3
Rated impulse voltage	: 8 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 10 - 65 A
I <sub>cu</sub>	: 75 kA at 240 V, 50 kA at 415 V, 35 kA at 440 V, 10 kA at 500 V, 5 kA at 690 V.
I <sub>cs</sub>	: 75 kA at 240 V, 50 kA at 415 V, 27 kA at 440 V, 8 kA at 500 V, 5 kA at 690 V.

Type(s)	: MMS-100S
Number of poles	: 3
Rated impulse voltage	: 8 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 17 - 100 A
I <sub>cu</sub>	: 100 kA at 240 V, 50 kA at 415 V, 40 kA at 440 V, 8 kA at 500 V, 5 kA at 690 V.
I <sub>cs</sub>	: 100 kA at 240 V, 38 kA at 415 V, 30 kA at 440 V, 6 kA at 500 V, 4 kA at 690 V.

Type(s)	: MMS-100H, MMS-100HI
Number of poles	: 3
Rated impulse voltage	: 8 kV
Utilisation category	: AC 3
Rated operational voltage (AC)	: up to 690 V
Rated current I <sub>th</sub> = I <sub>e</sub>	: 17 - 100 A
I <sub>cu</sub>	: 100 kA at 240 V, 75 kA at 415 V, 50 kA at 440 V, 12 kA at 500 V, 6 kA at 690 V.
I <sub>cs</sub>	: 100 kA at 240 V, 50 kA at 415 V, 38 kA at 440 V, 9 kA at 500 V, 6 kA at 690 V.

Model Type reference	:	RS : Shunt Release
Ratings	:	AC24V 50Hz / AC28V 60Hz AC110V 50Hz / AC120V 60Hz AC220V~230V 50Hz / AC240V~260V 60Hz AC240V 50Hz / AC277V 60Hz AC380V~400V 50Hz / AC440V~460V60Hz AC415V~440V 50Hz / AC460V~480V 60Hz
Model Type reference	:	RU : Undervoltage Release RUX : Undervoltage Release with Auxiliary Switch
Ratings	:	AC24V 50Hz / AC28V 60Hz AC110V 50Hz / AC120V60Hz AC220V~230V 50Hz / AC240V~260V 60Hz AC240V 50Hz / AC277V 60Hz AC380V~400V 50Hz / AC440V~460V 60Hz AC415V~440V 50Hz / AC460V~480V 60Hz
Model / type reference	:	FX-11,20,02 : Front Auxiliary Switch
Ratings	:	Ith 5A; Ui 250V; AC-15 : 3 A (240 V); DC-13 : 1 A (24 V), 0.1 A (220 V)
Model / type reference	:	LX-11,20,02 ; LA-11,20,02 ; LAM-11,20,02
Ratings	:	Ith 10 A; Ui 690 V; AC-15 : 6 A (24 V); 4 A (240 V); DC-13 : 2 A (24 V), 0.25 A (220 V)

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

**CB TEST CERTIFICATE**

Product	Moulded case circuit breaker used as a manual motor starter
Name and address of the applicant	LSIS Co., Ltd. 127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do Korea, Republic of
Name and address of the manufacturer	LSIS Co., Ltd. 127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do Korea, Republic of
Name and address of the factory	<input type="checkbox"/> Additional information on page 2 LSIS Co., Ltd., Cheongju Plant 95, Baekbong-ro, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do Korea, Republic of
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	Ue up to 690 V; Ie up to 100 A; 3 pole; Shunt release; UV release and auxiliary contact; see annex for further ratings
Trademark (if any)	LS
Customer's Testing Facility (CTF) Stage used	WMT
Model / Type Ref.	MMS-32S/H/HI; MMS-32 RCS; MMS-63S/H/HI; MMS-100S/H/HI; FX-...; LX.....
Additional information (if necessary may also be reported on page 2)	<input type="checkbox"/> Additional information on page 2 This CB Test Certificate replaces CB NL-15408/M1/A2. Date of first issue: 2013-07-11. A2: Editorial update to include reference to IEC 60947-4-1.
A sample of the product was tested and found to be in conformity with	IEC 60947-2:2006/AMD1:2009, IEC 60947-4-1:2009/AMD1:2012, IEC 60947-5-1:2003/AMD1:2009
As shown in the Test Report Ref. No. which forms part of this Certificate	2168876.50 .. 55; 2168876.60 .. 61; 2129426.50 ..51; 2116563.70 .. 74; 2038108.51 .. 58

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