



CB TEST CERTIFICATE

Ref. Certificate No.

NL-31894

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

Issued by:	DEKRA Certification B.V.		
Product:	Moulded case circuit breaker used as a manual motor starter		
Applicant:	LSIS CO.,Ltd	LS Tower, 127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-Do, 431-848	Korea, Republic of
Manufacturer:	LSIS CO.,Ltd	LS Tower, 127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-Do, 431-848	Korea, Republic of
Factory:	Dau Industries Co.Ltd.	648. Hojuk-ri, Oksan-myeon, Cheogwon-gun, Chungbuk-do	Korea, Republic of
Rating 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		
Trade mark (if any):	LS		
Type of Manufacturer's Testing Laboratories used:	WMT		
Model/Type reference:	MMS-32S/H/HI; MMS-32 RCS; MMS-63S/H/HI; MMS-100S/H/HI; FX-...; LX.....		
Additional information:			
Sample of product tested to be in conformity with IEC:	60947-2(ed.4);am1 60947-5-1(ed.3);am1		
Test Report Ref. No:	2168876.50 .. 55; 2168876.60 .. 61; 2129426.50 ..51; 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: 2014-07-11

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 $I_{th} = I_e$	: 0,16 - 40 A
I_{cu}	: 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_{cs}	: 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 $I_{th} = I_e$	: 0,16 - 40 A
I_{cu}	: 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_{cs}	: 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 $I_{th} = I_e$	: 10 - 65 A
I_{cu}	: 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_{cs}	: 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 _{th} = I _e	: 10 - 65 A
I _{cu}	: 100 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 _{cs}	: 100 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 _{th} = I _e	: 17 - 100 A
I _{cu}	: 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 _{cs}	: 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 _{th} = I _e	: 17 - 100 A
I _{cu}	: 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 _{cs}	: 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)