



CB TEST CERTIFICATE

Ref. Certificate No.

NL-31918

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		
Applicant:	LSIS Co., Ltd.	127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do	Korea, Republic of
Manufacturer:	LSIS Co., Ltd.	127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do	Korea, Republic of
Factory:	LSIS Co., Ltd. Cheongju Plant	95, Baekbong-ro, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do	Korea, Republic of
Rating and principal characteristics:	Ue: 220 / 240 / 250 / 415 / 440 / 460 Vac, Ui: 750 Vac, Uimp: 8 kV, In: 3 A, 5 A, 10 A, 15 A, 20 A, 30 A, 40 A, 50 A, 60 A, 75 A, 100 A, 50 / 60 Hz 2P, 3P and 4P (unprotected N pole) See annex for further ratings		
Trade mark (if any):	LS		
Model/Type reference:	ABN102d, ABN103d, ABN104d, ABS62d, ABS63d, ABS64d, ABS52d, ABS53d, ABS54d, ABH32d, ABH33d, ABH34d, ABN62d, ABN63d, ABN64d, ABN52d, ABN53d, ABN54d, ABS32d, ABS33d, ABS34d, ABN102c, ABN103c, ABN104c, ABS62c, ABS63c, ABS64c, ABS52c, ABS53c, ABS54c, ABH32c, ABH33c, ABH34c, ABN62c, ABN63c, ABN64c, ABN52c, ABN53c, ABN54c, ABS32c, ABS33c, ABS34c		
Additional information:	This certificate is also based on and replaces certificate no. NL-17236 issued on 2009-11-30 and NL-17237/A1 issued on 2009-12-14.		
Sample of product tested to be in conformity with IEC:	60947-2(ed.4);am1;am2		
Test Report Ref. No:	3306468.50, 2109959.50, 2116563.50/51 and 2128717.60/61/62		

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

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

Signed by: F.S. Strikwerda

Date of issue: 2014-07-29



Ratings:

number of poles	: 2P, 3P and 4P (unprotected N pole)
protected pole	: 2 or 3
rated operational voltage (Ue)	: 220 / 240 / 250 / 415 / 440 / 460 Vac
rated insulation voltage (Ui)	: 750 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated current (In)	: 3 A, 5 A, 10 A, 15 A, 20 A, 30 A, 40 A, 50 A, 60 A, 75 A, 100 A
rated operational current (Ie)	: Equal to In
conventional thermal current (Ith)	: Equal to In
current rating for four-pole circuit-breakers	: Equal to In
rated frequency	: 50 / 60 Hz
rated ultimate short-circuit breaking capacity (Icu)	: ABN102d/103d/104d, ABS62d/63d/64d, ABS52d/53d/54d, ABH32d/33d/34d: 50 kA at 220 / 240 / 250 Vac 26 kA at 415 / 440 / 460 Vac ABN62d/63d/64d, ABN52d/53d/54d, ABS32d/33d/34d: 42 kA at 220 / 240 / 250 Vac 22 kA at 415 / 440 / 460 Vac ABN102c/103c/104c, ABS62c/63c/64c, ABS52c/53c/54c, ABH32c/33c/34c (15 - 100 A): 35 kA at 220 / 240 / 250 Vac 18 kA at 415 / 440 / 460 Vac ABN62c/63c/64c, ABN52c/53c/54c, ABS32c/33c/34c (15 - 100 A): 30 kA at 220 / 240 / 250 Vac 14 kA at 415 / 440 / 460 Vac c type for 3 - 10 A: 25 kA at 220 / 240 / 250 Vac 10 kA at 415 / 440 / 460 Vac
rated service short-circuit breaking capacity (Ics)	: ABN102d/103d/104d, ABS62d/63d/64d, ABS52d/53d/54d, ABH32d/33d/34d: 35 kA at 220 / 240 / 250 Vac 18 kA at 415 / 440 / 460 Vac ABN62d/63d/64d, ABN52d/53d/54d, ABS32d/33d/34d: 30 kA at 220 / 240 / 250 Vac 14 kA at 415 / 440 / 460 Vac

Ics = 100% Icu for c type

suitable for isolation	:	Suitable
utilization category	:	A
safety distance (screen-circuit breaker)	:	Front / Back: 0 mm, Left / Right: 25 mm, Up / Down: 50 mm
instantaneous release	:	Magnetic type, fixed, 2 poles in series: $I_i = 12 I_n$, if $I_n = 3 - 10 A$ and $40 - 100 A$, $I_i = 400 A$, if $I_n = 15 - 30 A$, single pole: $15 I_n$, if $I_n = 3 - 10 A$ and $40 - 100 A$, $750 A$, if $I_n = 15 - 30 A$
time setting of the instantaneous release	:	Fixed
inverse time delay release	:	Thermal type, fixed
time setting of the inverse time delay release	:	Fixed
method of mounting	:	Fixed
EMC environment	:	A and B
circuit-breaker for use on phase-earthed systems	:	N/A
circuit-breaker for use in IT systems	:	Yes, 1800 A at 460 Vac
line/load terminal connection	:	Marked Copper conductor with cable lug