

Type Approval Certificate Extension

This is to certify that Certificate No. 09/10007 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Terasaki Electric Co., Ltd. 7-2-10 Hannan-cho, Abeno-ku, Osaka, 545-0021 Japan
PLACE OF PRODUCTION	Terasaki Electric Co., Ltd. YABAKEI factory 1073-1 Tobaru, Yabakeimachi, Nakatsu city, Oita, 871-0404, Japan
DESCRIPTION	Moulded Case Circuit Breakers
TYPE	H400-NE, L400-NE, S400-GE, S400-GEH, S400-NE, S400-NEH S400-PE, S400-PF, S400-PJ
APPLICATION	Protection and switching of distribution circuits for marine, offshore and industrial applications
DESIGN CODE STANDARD	IEC 60947-2 (2006)

Certificate No.	09/10007(E1)
Issue Date	31 March 2010
Expiry Date	01 February 2014
Sheet	1 of 3



S. Nakauma
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

RATINGS

Type	Poles	Current rating at 45°C (A)	Rated voltage (V) ac	Breaking current (r.m.s.) (kA) Icu/Ics	Making current (Peak asymmetrical) (kA) Icu/Ics	Power factor Icu/Ics	Icw (kA)	Over current release
H400-NE	3	Max 400	690 525 450 415 240	35/35 45/45 120/80 125/85 150/150	77.8/77.8 94.5/94.5 283/191 275/187 350/350	0.18/0.18 0.25/0.25 0.13/0.12 0.20/0.20 0.14/0.14	5 (0.3sec)	
L400-NE	3	Max 400	690 525 450 415 240	50/50 65/65 180/135 200/150 200/150	115/115 143/143 430/315 484/345 484/350	0.15/0.15 0.20/0.20 0.12/0.14 0.11/0.15 0.11/0.14	5 (0.3sec)	Electronic Long Time Delay,
S400-GE S400-GEH	3 3	Max 400 Max 400	690 525 450 415 240	20/15 30/30 65/50 70/50 100/85	43.0/32.6 63/63 157/121 154/105 233/211	0.21/0.20 0.25/0.25 0.11/0.11 0.20/0.25 0.14/0.09	5 (0.3sec)	Short Time Delay and
S400-NE S400-NEH	3 3	Max 400 Max 400	690 525 450 415 240	20/15 30/30 45/45 50/50 85/85	43.0/32.6 63/63 109/109 105/105 211/211	0.21/0.20 0.25/0.25 0.11/0.11 0.25/0.25 0.09/0.09	5 (0.3sec)	Instantaneous trip with adjustable
S400-PE	3	Max 400	690 525 450 415 240	20/15 30/30 80/80 85/85 100/85	43.0/32.6 63/63 191/191 187/187 233/211	0.21/0.20 0.25/0.25 0.12/0.12 0.20/0.20 0.14/0.09	5 (0.3sec)	
S400-PF S400-PJ	3 3	Max 400 Max 400	690 525 450 415 240	20/15 30/30 80/80 85/85 100/85	43.0/32.6 63/63 191/191 187/187 233/211	0.21/0.20 0.25/0.25 0.12/0.12 0.20/0.20 0.14/0.09	-	Thermal overload release and Instantaneous magnetic short-circuit release

Certificate No. 09/10007(E1)
 Issue Date 31 March 2010
 Expiry Date 01 February 2014
 Sheet 2 of 3


 S. Nakauma
 Yokohama Design Support Office
 Lloyd's Register

Lloyd's Register, registered office:
 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 09/10007(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 09/10007 to which this extension should be attached.

Certificate No.	09/10007(E1)
Issue Date	31 March 2010
Expiry Date	01 February 2014
Sheet	3 of 3



S. Nakauma
Yokohama Design Support Office
Lloyd's Register

*Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS*

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."