

Type Approval Certificate Extension

This is to certify that Certificate No. 96/10020(E6) 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	Kami Factory 6-13-47 Kamihigashi, Hirano-ku, Osaka, 547-0002 Japan
	Yabakei Factory 1073-1 Tobaru, Yabakei-machi, Nakatsu-city, Oita-ken, 871-0404 Japan
	Malaysia Factory Lot 3, Jalan 16/13D, 40000 Shah Alam, Selangor Darul Ehsan, Malaysia
	Hager Factory No.17 Huitai Road, Huitai Industrial District Huizhou Guangdong 516006, P.R. China
DESCRIPTION	Moulded Case Circuit Breakers, Back-Up Protection
ТҮРЕ	E, H, L, S, TB, TL, XE, XH and XS Series
APPLICATION	Protection and switching of distribution circuits for marine, offshore and industrial applications
DESIGN CODE	IEC 60947-1 (2007), IEC 60947-2 (2006) ; Annex A

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet1 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



RATINGS

450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	E250-SF	S100-NF	S160-NJ	S50-GF	S160-GJ	H100-NF	L100-NF
		S125-NF	S225-NF	S100-GF	S225-GF	H125-NF	L125-NF
		S125-NJ	S250-NF	S125-GF	S250-GF	H125-NJ	L125-NJ
		S100-NFL	S250-NJ	S125-GJ	S250-GJ		
\backslash		S100-NFH	S225-NFL	S50-GFL	S225-GFL		
\backslash		S125-SF	S225-NFH	S50-GFH	S225-GFH		
Branch breaker	<u></u>	· · · ·	S250-SF	S100-GFL			
				S100-GFH			
E50-SF, E100-SF	15/32.6	22/51.9	15/32.6	22/51.9	15/32.6	22/51.9	180/430
	-						
Back-up breaker	S160-NJ	S400-CF	S400-NF	S50-GF	S160-GJ	S630-NF	S800-NF
	S225-NF	S400-CJ	S400-NJ	S100-GF	S225-GF	S630-NJ	S800-NJ
	S250-NF	S630-CF	S400-NE	S125-GF	S250-GF	S630-NE	S800-NE
	S250-NJ	S630-CJ	S400-NEH	S125-GJ	S250-GJ	S630-NEH	S800-NEH
\backslash	S225-NFL	S800-CF		S50-GFL	S225-GFL		
\backslash	S225-NFH	S800-CJ		S50-GFH	S225-GFH		
Branch breaker	S250-SF			S100-GFL			
				S100-GFH			
E250-SF	25/56.2	30/70.8	30/70.8		30/70.8	30/70.8	30/70.8
S50-SF, S125-SF		30/70.8	30/70.8	42/96.7	42/96.7	30/70.8	30/70.8
S100-NF, S125-NF,							
S125-NJ, S100-NFL,		30/70.8	30/70.8	42/96.7	42/96.7	30/70.8	30/70.8
S100-NFH, S100-NM							
S160-NJ, S225-NF,					·		
S250-NF, S250-NJ,		30/70.8	42/96.7		42/96.7	42/96.7	42/96.7
S225-NFL, S225-NFH,		50/70.8	42/90.7		42/96.7	42/90.7	42/90.7
S225-NM							
S250-SF		30/70.8	42/96.7		42/96.7	42/96.7	42/96.7
S400-CF, S400-CJ			45/109			50/117	50/117
S630-CF, S630-CJ						50/117	50/117
S800-CF, S800-CJ							50/117

Certificate No.	96/10020(E7)
Issue Date	23 May 2011
Expiry Date	22 May 2016
Sheet	2 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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

450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	S400-GF	H100-NF	H225-NF	H400-NE	H630-NE	H800-NE
	S400-GJ	H125-NF	H160-NJ			
	S400-GE	H125-NJ	H225-NJ			
	S400-GEH		H250-NJ			
	S400-PF					
	S400-PJ					
Branch breaker	S400-PE					
E250-SF	30/70.8		50/121	50/121	30/65.2	30/65.2
S50-SF, S125-SF	30/70.8	50/121	50/121	50/121	30/70.8	30/70.8
S100-NF, S125-NF,						
S125-NJ, S100-NFL,	30/70.8	50/121	50/121	50/121	30/65.2	30/65.2
S100-NFH, S100-NM						
S160-NJ, S225-NF,						
S250-NF, S250-NJ,	47/06 7		F0 /1 /F	F0 (1 (F		FO (1 (F
S225-NFL, S225-NFH,	42/96.7		70/165	70/165	70/165	70/165
S225-NM	-					
S250-SF	42/96.7		70/165	70/165	70/165	70/165
S400-CF, S400-CJ	50/121			100/230	70/165	70/165
S630-CF, S630-CJ					100/230	100/230
S800-CF, S800-CJ						100/230
S400-NF, S400-NJ,				100 /000	100 /000	100 (000
S400-NE, S400-NFH				100/230	100/230	100/230

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet3 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	L100-NF	L225-NF	L400-NE	L630-NE	L800-NE
	L125-NF	L160-NJ			
	L125-NJ	L225-NJ			
Branch breaker		L250-NJ			
E250-SF		70/165	70/165	30/70.8	30/70.8
S50-SF, S125-SF	180/430	70/165	70/165	30/70.8	30/70.8
S100-NF, S125-NF,		y an			
S125-NJ, S100-NFL,	180/430	70/165	70/165	30/70.8	30/70.8
S100-NFH, S100-NM					
S160-NJ, S225-NF,					
S250-NF, S250-NJ,		100 /011	100 (011	05 (000	07 (000
S225-NFL, S225-NFH,		130/311	130/311	85/203	85/203
S225-NM					
S250-SF		130/311	130/311	85/203	85/203
S400-CF, S400-CJ			130/311	100/230	100/230
S630-CF, S630-CJ				130/311	130/311
S800-CF, S800-CJ					130/311
S400-NF, S400-NJ,			100 (011	100 (011	100 (011
S400-NE, S400-NFH			130/311	130/311	130/311

Back-up breaker	H100-NF	H225-NF	L100-NF	L225-NF	L630-NE
	H125-NF	H160-NJ	L125-NF	L160-NJ	L800-NE
	H125-NJ	H225-NJ	L125-NJ	L225-NJ	
		H250-NJ		L250-NJ	
Branch breaker		H400-NE		L400-NE	
S50-GF, S100-GF,					
S125-GF, S125-GJ,	F0 /1/F	FO (1/5	100 (100	05 (000	
S50-GFL, S50-GFH,	70/165	70/165	180/430	85/203	
S100-GFL, S100-GFH		-			
S160-GJ, S225-GF,					
S250-GF, S250-GJ,		70/165		130/311	85/203
S225-GFL, S225-GFH					

Certificate No.	96/10020(E7)
Issue Date	23 May 2011
Expiry Date	22 May 2016
Sheet	4 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	H400-NE	H630-NE	H800-NE	L100-NF	L225-NF	L400-NE	L630-NE	L800-NE
				L125-NF	L160-NJ			
				L125-NJ	L225-NJ			
Branch breaker					L250-NJ			
S630-NF, S630-NJ, S630-NE, S630-NEH		100/230	100/230				130/311	130/311
S800-NF, S800-NJ,			100 /000				····	100 /011
S800-NE, S800-NEH			100/230					130/311
S400-GF, S400-GJ,		-						
S400-GE, S400-GEH,	100/230	100/230	100/230			130/311	130/311	120/211
S400-PF, S400-PJ,	100/200	100/250	100/250			150/511	150/ 511	130/311
S400-PE								
H100-NF, H125-NF,				180/430				
H125-NJ				160/450				
H225-NF, H160-NJ,					100 (011			
H225-NJ, H250-NJ					130/311			
H400-NE						180/396	180/396	180/396

Back-up breaker	XS50NB	E125-NJ	XE225NS	E225-NF	XS100NB	XS125NB	S100-NF
	XS60NS			E250-NF			S125-NF
	XE100NS			E250-NJ			S125-NJ
				E225-NFL			S100-NFL
Branch breaker				E225-NFH			S100-NFH
XS30NB, XE50NB	10/28.6	5/8.17	5/9.4	5/8.17	10/28.6		10/17.3
XS50CB	10/28.6	10/17.3			15/31.4		15/32.6
XS50NB		15/32.6	15/31.4	15/32.6	22/50.6	22/50.6	22/51.9
XS60NS		15/32.6	15/31.4	15/32.6	22/50.6		22/51.9
XE100NS		15/32.6	15/31.4	15/32.6	22/50.6	22/50.6	22/51.9

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet5 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	XS225NS	S160-NJ	XS400CS	S400-CF	XS600CS	XH50NS	XH100NS
		S225-NF		S400-CJ	XS800CS		
		S250-NF					
		S250-NJ					
		S225-NFL					
Branch breaker		S225-NFH					
XS30NB, XE50NB	5/9.4	5/8.17					
XS50CB						15/31.4	15/31.4
XS50NB, XS60NS,	15/01 4	15 (20.6				22/50/	22/52 (
XE100NS	15/31.4	15/32.6				22/50.6	22/50.6
E125-NJ		25/56.2	30/70.8	30/70.8	30/70.8		
XE225NS	25/56.6		30/72.6		30/72.6		
E225-NF, E250-NF,							
E250-NJ, E225-NFL,		25/56.2	30/70.8	30/70.8	30/70.8		
E225-NFH							
XS100NB	25/56.6	25/56.2	30/72.6	30/70.8	30/72.6		42/96.8
XS125NB				30/70.8	30/72.6		
S100-NF, S125-NF,							
S125-NJ, S100-NFL,			30/70.8		30/70.8		
S100-NFH, S100-NM							
XS225NS			30/72.6		30/72.6		
S160-NJ, S225-NF,							
S250-NF, S250-NJ,			20 /70 9		00/50 0		
S225-NFL, S225-NFH,			30/70.8		30/70.8		
S225-NM							

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet6 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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

450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	XH225NS	S400-NF	S50-GF	XH225NE	S160-GJ	XS400NS	XS600NS
\backslash		S400-NJ	S100-GF		S225-GF	XS400NE	XS600NE
\backslash		S400-NE	S125-GF		S250-GF		XS800NS
\backslash		S400-NEH	S125-GJ		S250-GJ		XS800NE
\backslash			S50-GFL		S225-GFL		
\backslash			S50-GFH		S225-GFH		
			S100-GFL				
Branch breaker			S100-GFH				
XS50CB			15/32.6				
XS50NB, XS60NS, XE100NS	15/31.4		22/51.9		15/32.6		
E125-NJ		30/70.8	30/70.8	30/70.8	30/70.8	30/70.8	30/70.8
XE225NS	30/72.6			30/72.6		30/72.6	30/72.6
E225-NF, E250-NF,							
E250-NJ, E225-NFL,		30/70.8		30/70.8	30/70.8	30/70.8	30/70.8
E225-NFH							
XS100NB	42/96.8	30/70.8	42/96.7	30/72.6	42/96.7	30/72.6	30/72.6
XS125NB		30/70.8	42/96.7	30/72.6	42/96.7		30/72.6
S100-NF, S125-NF,							
S125-NJ, S100-NFL,				30/70.8		30/70.8	30/70.8
S100-NFH, S100-NM							
XS225NS	42/96.8			42/96.8		42/96.8	42/96.8
S160-NJ, S225-NF,							
S250-NF, S250-NJ,				42/067		42/06 7	12/06 7
S225-NFL, S225-NFH,				42/96.7		42/96.7	42/96.7
S225-NM							

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet7 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	S400-GF S400-GJ	XH800PS	TL-100F	H100-NF H125-NF	TL-225F	H225-NF H160-NJ	TL-400E	H400-NF H400-NJ
	S400-GE S400-GEH		· · ·	H125-NJ		H225-NJ		
Branch breaker	3400-GEFI					H250-NJ		
XS50NB, XS60NS,			22/50.1	22/50.1				
XE100NS								
E125-NJ	30/70.8	30/70.8	50/112	50/121	50/112	50/121	50/112	50/121
XE225NS		30/70.8			50/117		50/117	
E225-NF, E250-NF,								
E250-NJ, E225-NFL,	30/70.8	30/70.8			50/112	50/121	50/112	50/121
E225-NFH								
XS100NB	30/70.8	30/70.8	50/117	50/121	50/117	50/121	50/117	50/121
XS125NB	30/70.8	30/70.8		50/121		50/121		
S100-NF, S125-NF,								
S125-NJ, S100-NFL,		30/70.8	50/112		50/112		50/112	50/121
S100-NFH, S100-NM								
XS225NS		42/96.7			70/161		70/161	
S160-NJ, S225-NF,								
S250-NF, S250-NJ,		10 (06 7						
S225-NFL, S225-NFH,		42/96.7			70/165		70/165	70/165
S225-NM								

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet8 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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

450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	H400-NE	TL-600NE TL-800NE	TL-100C	L100-NF L125-NF L125-NJ	TL-225B	L225-NF L160-NJ L225-NI	TL-400	L400-NF L400-NJ
Branch breaker						L250-NJ		
XS50NB, XS60NS, XE100NS			180/416	180/430				
E125-NJ	50/121	30/65.2	180/430	180/430	70/165	70/165	70/165	70/165
XE225NS		30/65.2			70/165		70/165	
E225-NF, E250-NF, E250-NJ, E225-NFL, E225-NFH	50/121	30/65.2			70/165	70/165	70/165	70/165
XS100NB	50/121	30/65.2	180/416	180/430	70/165	70/165	70/165	70/165
XS125NB	50/121	30/65.2		180/430		70/165		
S100-NF, S125-NF, S125-NJ, S100-NFL, S100-NFH, S100-NM		30/65.2	180/430		70/165		70/165	70/165
XS225NS		70/161			130/312		130/312	
S160-NJ, S225-NF, S250-NF, S250-NJ, S225-NFL, S225-NFH, S225-NM		50/112			130/307		130/307	130/311

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet9 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	L400-NE	TL-600 TL-800				
Branch breaker						
E125-NJ	70/165	30/70.8	-			
XE225NS		30/72.6				
E225-NF, E250-NF, E250-NJ, E225-NFL, E225-NFH	70/165	30/70.8				
XS100NB	70/165	30/72.6				
XS125NB	70/165	30/72.6				
S100-NF, S125-NF, S125-NJ, S100-NFL, S100-NFH, S100-NM		30/70.8				
XS225NS		85/198				
S160-NJ, S225-NF, S250-NF, S250-NJ, S225-NFL, S225-NFH, S225-NM		85/203				

Back-up breaker	XS400NS	XS400NE	XS600NS	XS800NS	XH800PS	TL-100F	TL-225F	TL-400E	H400-NF
Branch breaker			XS600NE	XS800NE				-	H400-NJ
XS400CS	50/125	50/121	50/125	50/125	50/117			100/225	
S400-CF, S400-CJ		50/121	50/117	50/117	50/117				100/230
XS600CS			50/125	50/125	50/117				
XS800CS				50/125	50/117				
XH50NS, XH100NS						70/161	70/161	70/161	
XH225NS							70/161	70/161	
S400-NF, S400-NJ									100/230

Certificate No.	96/10020(E7)
Issue Date	23 May 2011
Expiry Date	22 May 2016
Sheet	10 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	TL-600NE	TL-800NE	TL-100C	TL-225B	TL-400	L400-NF	TL-600	TL-800
Branch breaker						L400-NJ		
XS400CS	70/161	70/161			130/312		100/233	100/233
S400-CF, S400-CJ	70/165	70/165				130/311	100/230	100/230
XS600CS	100/230	100/230					130/312	130/312
XS800CS		100/230					· · · · · · · · · · · · · · · · · · ·	130/312
XH50NS, XH100NS			180/416	85/198	85/198			
XH225NS	70/161	70/161		130/312	130/312		85/198	85/198
S400-NF, S400-NJ	100/230	100/230				130/311	130/303	130/303
S400-NE, S400-NEH	100/230	100/230					130/311	130/311

Back-up breaker	TL-100F	TL-225F	TL-400E	H400-NF	H400-NE	TL-600NE	TL-800NE
Branch breaker				H400-NJ			
S50-GF, S100-GF,							
S125-GF, S125-GJ,	FO (1/5	FO (1 (F	FO (1 (F	70 /4 /7			
S50-GFL, S50-GFH,	70/165	70/165	70/165	70/165			
S100-GFL, S100-GFH							
XH225NE			100/225	100/230	100/230	100/230	100/230
S160-GJ, S225-GF,							
S250-GF, S250-GJ,		70/165	70/165	70/165			
S225-GFL, S225-GFH							
XS400NS		<i>e</i>	100/225			100/230	100/230
XS400NE			100/225	100/230		100/230	100/230
XS600NS						100/230	100/230
XS600NE						100/230	100/230
XS800NS							100/230
XS800NE							100/230
S400-GF, S400-GJ				100/230		100/230	100/230
S400-GE, S400-GEH						100/230	100/230

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet11 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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

450 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	TL-100C	TL-225B	TL-400	L400-NF	L400-NE	TL-600	TL-800
Branch breaker		L		L400-NJ			
S50-GF, S100-GF,							
S125-GF, S125-GJ,	180/430	85/203	85/203	85/203			
S50-GFL, S50-GFH,	100/ 400	007200	007 200	85/205			
S100-GFL, S100-GFH							
XH225NE			130/312	130/311	130/311	130/312	130/312
S160-GJ, S225-GF,							
S250-GF, S250-GJ,		130/307	130/307	130/311		85/203	85/203
S225-GFL, S225-GFH							
XS400NS			130/312			130/312	130/312
XS400NE			130/312	130/311		130/312	130/312
XS600NS						130/312	130/312
XS600NE						130/312	130/312
XS800NS							130/312
XS800NE							130/312
S400-GF, S400-GJ				130/311		130/303	130/303
S400-GE, S400-GEH		· · · · · ·				130/311	130/311
TL-100F	180/396					1	
TL-225F		130/311					
H400-NF, H400-NJ				180/430		180/396	180/396
H400-NE						180/396	180/396

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016

12 of 14

////i

H. Murase Yokohama Design Support Office Lloyd's Register

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

Sheet



240 V a.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker	E50-SF	S125-SF	S160-NJ
	E100-SF	S100-NF	S225-NF
		S125-NF	S250-NF
		S125-NJ	S250-NJ
		S100-NFL	S225-NFL
Branch breaker		S100-NFH	S225-NFH
TB-5S, TB-5D, TB-5P	25/58.3	25/55.6	
E50-SF, E100-SF		50/115	50/115

Back-up breaker	XS50NB	XE225NS	E125-NJ	E225-NF	XS100NB	S100-NF	XS225NS	S160-NJ
	XS60NS			E250-NF		S125-NF		S225-NF
	XE100NS			E250-NJ		S125-NJ		S250-NF
						S100-NFL		S250-NJ
						S100-NFH		S225-NFL
Branch breaker	·			-				S225-NFH
TB-5S, TB-5D, TB-5P	25/58.3		25/55.6		25/58.3			
XS30NB, XE50NB	25/53.2		25/55.6		30/69.2	30/68.3		
XS50CB	25/53.2	25/53.2	25/55.6	25/55.6	30/69.2	30/68.3	25/53.2	25/55.6
XS50NB, XS60NS,					50/11/	50/115	50/11/	50 /115
XE100NS				-	50/116	50/115	50/116	50/115

125 Va.c. Short-Circuit Breaking Current (Sym. r.m.s. kA) / Making Current (Asym. Peak kA) in Cascade Back-Up Protection

Back-up breaker Branch breaker	XS50CB XS50NB XS60NS XE100NS	
XS30NB, XE50NB	42/96.9	

Certificate No.	96/10020(E7)
Issue Date	23 May 2011
Expiry Date	22 May 2016
Sheet	13 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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



"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. 96/10020(E7) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 96/10020(E6) to which this extension should be attached.

Certificate No.96/10020(E7)Issue Date23 May 2011Expiry Date22 May 2016Sheet14 of 14

H. Murase Yokohama Design Support Office Lloyd's Register

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