



Marine & Offshore

Certificate number: 23393/C0 BV

File number: ACE14/440/03

Product code: 2601D

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to
LEGRAND-FRANCE
 MALAUNAY - FRANCE

for the type of product
TERMINAL BLOCKS (LOW VOLTAGE)
 SERIE VIKING 3.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60947-7-1 (2009), IEC 60947-7-2 (2009).

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 19 Aug 2026

For Bureau Veritas Marine & Offshore,

At BV LE HAVRE, on 19 Aug 2021,

Mathieu DHINAUT



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=yihvea3u3l>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1 - VIKING 3 SCREW TERMINAL BLOCKS:

Screw terminal blocks					CEI / EN 60947							
					Ue=Ui (V) Uimp (kV)	Rated current (A)	Cross-section (mm ²)	Rated connecting capacity				
								Mini		Maxi		
Pitch (mm)	Type	Colour	Reference	flexible (mm ²)	rigid	flexible (without ferrule) (mm ²)	flexible (with ferrule) (mm ²)	rigid (mm ²)				
1 junction 1 level	5	Grey	0 37160	800 V 8 kV	24 A	2,5 ²	0,2 ²	0,2 ²	2,5 ²	2,5 ²	4 ²	
		Blue	0 37100									
		Orange	0 37120									
		Red	0 37130									
	6	1E / 1O	Grey	0 37161	800 V 8 kV	32 A	4 ²	0,2 ²	0,2 ²	4 ²	4 ²	6 ²
			Blue	0 37101								
			Orange	0 37121								
			Red	0 37131								
	8	1E / 1O	Grey	0 37162	800 V 8 kV	41 A	6 ²	0,2 ²	0,5 ²	6 ²	6 ²	10 ²
			Blue	0 37102								
			Green	0 37178								
	10	1E / 1O	Grey	0 37163	800 V 8 kV	57 A	10 ²	2,5 ²	1,5 ²	10 ²	10 ²	16 ²
			Blue	0 37103								
			Green	0 37198								
	12	1E / 1O	Grey	0 37164	800 V 8 kV	76 A	16 ²	4 ²	1,5 ²	16 ²	16 ²	25 ²
			Blue	0 37104								
			Green	0 37199								
	15	1E / 1O	Grey	0 37165	800 V 8 kV	125 A	35 ²	4 ²	2,5 ²	35 ²	35 ²	50 ²
Blue			0 37105									
Green			0 37199									
22	1E / 1O	Grey	0 37166	1000V/12kV	192 A	70 ²	16 ²	2,5 ²	70 ²	70 ²	95 ²	
		Blue	0 37106									
For protection conductor	1E / 1O	Green/Yellow	0 37170	800 V 8 kV	-	2,5 ²	0,2 ²	0,2 ²	2,5 ²	2,5 ²	4 ²	
		G/Y	0 37171									
		G/Y	0 37172									
		G/Y	0 37173									
		G/Y	0 37174									
		G/Y	0 37175									
1 junction 2 levels	6	2E / 2O	Grey	500 V 6 kV	32 A	4 ²	0,2 ²	0,2 ²	4 ²	4 ²	6 ²	
			Blue									0 37109
			G/Y									0 37179
2 junctions 2 levels	6	2 x 1E / 1O	Grey	500 V 6 kV	24 A	2,5 ²	0,2 ²	0,2 ²	2,5 ²	2,5 ²	4 ²	
			Blue									0 37108
			with Led									0 37156
3 junctions 3 levels	5	3 x 1E/1O	Grey	400 V 6 kV	24 A	2,5 ²	0,2 ²	0,2 ²	2,5 ²	2,5 ²	4 ²	
			with Diode									0 37155
			Grey + G/Y									0 37152
Disconnect For fuse 5x20	6	Handle lever	grey / dark grey	500 V 6 kV	Ith 15A	2,5 ²	0,2 ²	0,2 ²	2,5 ²	2,5 ²	2,5 ²	
			grey / blue									0 37182
			orange / orange									0 37185
		Mini handle	grey / orange	0 37184								
			orange / orange	0 37186								
Opened block	Grey	0 37180										
Handle lever	grey / dark grey	0 37181	250 V / 4 kV	6,3 A								

1.2 - VIKING 3 SCREWLESS TERMINAL BLOCKS:

Screwless terminal blocks					CEI / EN 60947													
					U _e =U _i (V) U _{imp} (kV)	Rated current	Cross-section	Rated connecting capacity										
								flexible	rigid	flexible (without ferrule)	Maxi flexible (with ferrule)	rigid						
Pitch (mm)	Type	Colour	Reference	(V)	(A)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)								
1 junction 1 level	5	1E/1O	Grey	0 37260	800 V 8 kV	32A	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	6 ²						
			Blue	0 37200														
			Orange	0 37220														
		1E/2O	Grey	0 37240														
			Blue	0 37241														
			Orange	0 37242														
	2E/2O	Grey	0 37246															
		Blue	0 37247															
	6	1E/1O	Grey	0 37261	800 V 8 kV	32 A	4 ²	0,5 ²	0,5 ²	4 ²	4 ²	6 ²						
			Blue	0 37201														
			Orange	0 37221														
		1E/2O	Grey	0 37243														
			Blue	0 37244														
		2E/2O	Grey	0 37269														
	Blue		0 37209															
	8	1E/1O	Grey	0 37262	800 V 8 kV	41 A	6 ²	0,5 ²	0,5 ²	6 ²	6 ²	6 ²						
			Blue	0 37202														
	10	1E/1O	Grey	0 37263	800 V 8 kV	57 A	10 ²	0,75 ²	0,75 ²	10 ²	10 ²	10 ²						
Blue			0 37203															
12	1E/1O	Grey	0 37264	800 V 8 kV	76 A	16 ²	4 ²	4 ²	16 ²	16 ²	16 ²							
		Blue	0 37204															
2 junctions 2 levels	5	2 x 1E/1O	Grey	0 37267	500 V 6 kV	32 A	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	6 ²						
			Blue	0 37207														
	6	2 x 1E/1O	Grey	0 37268							6 kV	32 A	4 ²	0,5 ²	0,5 ²	4 ²	4 ²	6 ²
			Blue	0 37208														
For protection conductor	5	1E/1O	Green/Yellow	0 37270	800 V 8 kV	-	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	6 ²						
		1E/2O	G/Y	0 37210														
		2E/2O	G/Y	0 37212														
	6	1E/1O	G/Y	0 37271		-	4 ²	0,5 ²	0,5 ²	4 ²	4 ²	4 ²	6 ²					
		1E/2O	G/Y	0 37211														
		2E/2O	G/Y	0 37279														
	8	1E/1O	G/Y	0 37272		-	6 ²	0,5 ²	0,5 ²	6 ²	6 ²	6 ²						
	10	1E/1O	G/Y	0 37273		-	10 ²	0,75 ²	0,75 ²	10 ²	10 ²	10 ²						
	12	1E/1O	G/Y	0 37274		-	16 ²	4 ²	4 ²	16 ²	16 ²	16 ²						
	Disconnect For fuse 5x20	6	Handle lever	grey / dark grey		0 37283	500 V 6 kV	15 A	2,5 ²	0,5 ²	0,5 ²	2,5 ²	2,5 ²	2,5 ²				
grey / blue				0 37282														
orange / orange				0 37285														
Mini handle			grey / orange	0 37284														
			orange / orange	0 37286														
Opened block			Grey	0 37280														
Handle lever	grey / dark grey	0 37281	250 V / 4 kV	6,3A														
Blocks with fonction	5	diode 2E/2O	dark grey	0 37254	500 V / 6 kV	1 A	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	4 ²						
	5	diode 2 levels	dark grey	0 37255	500 V / 6 kV	1 A	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	4 ²						
	5	Led 2 levels	dark grey	0 37256	12V / 24V	NA	4 ²	0,5 ²	0,5 ²	4 ²	2,5 ²	4 ²						

2. DOCUMENTS AND DRAWINGS :

- Document and specifications filed in ACE 14/440/01.
- Catalogue LEGRAND page 460 to 463

3. TEST REPORTS :

- LCIE n° 119343-638698,119343-638698A to 119343-638698H.
- LCIE n° 103144-605271,103144-605271 A to 103144-605271 H.
- LCIE n° 87694-580214, 87694-580214A to 87694-580214H & 105362-609041,105362-609041A to 105362-609041H.
- LCIE n° 87336-578588 Cr 2009-10-12, 87336-578588A to 87336-578588G.
- LCIE n° 78980-567664A Cr 2009-10-12, 78980-567664B Cr 2009-10-12, & 101504-600849.
- LCIE n° 87341-578604, 87341-578604A to 87341-578604C & 105363-608790, 105363-608790A to 105363-608790C.
- LCIE n° 87341-578604B, 87692-580239, 105355-609035.
- LCIE n° 87694-580214E, 87695-579161, 105355-609032.
- IECEx test report cover N° FR/LCIE/ExTR16.0058/00, dated 28 Dec 2017.

4. APPLICATION / LIMITATION :

According to BV Rules for the Classification of Steel Ships and IEC 60092 series.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above products are to be supplied by **LEGRAND-FRANCE** in accordance with the type described in this certificate.
- 5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.
- 5.4 - For information, **LEGRAND-FRANCE** has declared to Bureau Veritas the following production sites:

LEGRAND-FRANCE
Rue Paul- Nouel,
F-76770 MALAUNAY
FRANCE

SC MARCA ROMANIA SRL
Cateasca, Coseri nr 144D,
Pitesti (AG)
ROMANIA
ROMANIA

6. MARKING OF PRODUCT :

- 6.1 - Trade name.
- 6.2 - Date of manufacture and serial number.
- 6.3 - Equipment type or model identification under which it was type-tested

7. OTHERS :

- 7.1 - It is **xxxx_applicant_name_xxxx**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This certificate supersedes the Type Approval Certificate No. 23393/B0 BV issued on 07.Dec.2010. by the Society.

*** END OF CERTIFICATE ***