



**VIKING
NORSAFE**
Boats and davits

Enterprise No.: NO940411696
www.VIKING-life.com

Merlin-615 MKI, Outboard



TECHNICAL SPECIFICATION

VIKING Norsafe Life-Saving Equipment Norway AS
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VIKING Project No.: TBA

VIKING Doc. No.: TSB-0019

Rev. Date: 26.12.2022

Rev. No: 13

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1. REGULATION AND CERTIFICATION

Applicable rules and regulations In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 2014/90/EU on Marine Equipment (MED)

Certificate MED

Other certificates Class certificate or flag acceptance on request

2. BOAT SPECIFICATION

2.1. GENERAL BOAT

Type	Fast Rescue Boat
Model	Merlin-615 MKI, Outboard
Length overall	6,25 m
Length on fender	6,17 m
Breadth	2,45 m
Height	2,50 m
Capacity, SOLAS minimum	6 Persons
Capacity, SOLAS maximum	15 Persons
Weight, fully equipped	1.150 kg
Davit load, with 6 pers@82,5 kg	1.645 kg (Davit load with 15pers@82,5kg = 2.388kg)
Color	Orange (RAL 2004)
Operation temperature:	-15°C till +40°C
Hull/deck material	Fire retardant glass reinforced polyester (GRP)
Buoyancy material	Polyurethane foam
Bollards/towing	Aft bollard P & S, painter hook in bow
Steering	Hydraulic
Fender	Polyethylene closed cell foam fender with double skinned heavy duty PVC cover
Deck	Self-bailing
Console cover	PVC
Loose equipment	According to SOLAS

Fast rescue boat designed and manufactured according to latest SOLAS requirements.

The rescue boat has excellent reliability, maneuverability, and sea keeping abilities in order to fulfil its prime function - to provide an effective means of search and recovery for persons missing at sea. Design and construction fulfil the need for reliable, low maintenance standby and operation. When installed with an approved davit, the boat fulfils the requirements for fast rescue boats on offshore installations and standby vessels, and is fully compliant with latest requirements for Ro-Ro ships.

The boat is further designed to serve the patrol, boarding and inspection role, with deck layout allowing the crew to operate efficiently and comfortably over long time periods. The layout and performance of the boat ensures optimum diving support, survey and work boat duties.



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Two longitudinal bulkheads along the length of the hull, transverse bulkheads and spray rails provide structural strength. The hull is a fully planning, deep-V type with transom, giving optimum sea keeping ability at all speeds in all sea conditions.

The space between hull and inner liner is filled with polyurethane buoyancy foam. If damaged below the waterline, the boat will float at safe level in fully flooded and loaded condition. The boat is self-bailing through two drainage outlets at the stern. The deck has an anti-slip surface. Lifelines are fitted on the gunwale.

A heavy duty fender protects the hull by absorbing impacts. The foam fender is protected by a double skin of reinforced PVC, secured with sail tracks at gunwale and chine level.

Lifting is made by a single point arrangement. An approved Off Load release hook, with connection ring for davit hook, is installed on top of the console reinforced with backing plates and structural connections down to each side in the console and bolted in to the deck. There is a painter hook in bow and bollards on each side astern.

The boat has been designed to provide a protected and safe working environment for the crew, engine and equipment. Console with a large spacious engine room makes service and maintenance easier and more comfortable. All electrical equipment is placed inside the console.

2.2 PROPULSION AND PERFORMANCE

Propulsion	Outboard engine
Engine	Norsafe Marine T75FEL-T
Speed, with 3 persons	Approx. 23 knots
Bollard pull	Approx. 4 kN
Propeller protection frame	AISI 316L
Instrument gauges	Fuel level, tachometer, (subject to standard engine type)
Engine cooling	Sea water circuit cooling
Engine freshwater flushing	Using extra flushing equipment
Fuel tank	140 L
Fuel valves	Shut-off on top of fuel tank and tank drain

Typical data – subject to variation in engine installation and specified equipment. Engines of at least 60HP and up to 90HP can be installed. Please note that boat weight, bollard pull, speed and personnel capacity are only for reference and may vary with several factors.

2.3. RELEASE SYSTEM

Release hook	K4-D FM Off-load release hook
Height, keel to lifting point	1,95 m
Hang off system	Hang off link with connection point for shackle



2.4. ELECTRIC SYSTEM AND NAVIGATION

Electric power supply to boat	42 VAC male and female connectors included (Power delivered from VIKING Norsafe davit starter cabinet)
Electric system voltage	12 VDC
Cables type	Marine type, flame retardant halogen free
Position light	12 VDC on top of self-righting frame
Search light	12 VDC handheld
Compass light	12 VDC inside compass
Bilge pump	Manual
Alternator	For 12 VDC system
Batteries	Main and secondary start battery
Switches	Main switch / Secondary switch / Electrical consumers switches

2.5. DOCUMENTATION

Technical specification boat	According to contract specification
General arrangement drawing	According to contract specification
Seating plan	According to contract specification
Electrical system drawing	According to contract specification
Product certificate	According to contract specification
Lubrication oil chart	VIKING standard
Spare parts list	VIKING standard
Operation & Maintenance man.	VIKING standard
Lifting arrangement drawing	VIKING standard
SOLAS loose equipment list	VIKING standard
Preservation & storage procedure	VIKING standard

3. PACKING

Packing

Secured in transport cradle



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4. OPTIONS

Note: Some options influence weight and performance, some option combinations may be incompatible. Maximum certified weight must not be exceeded.

marking means to be supplied by maker, marking means not supplied by maker.

GENERAL BOAT	
Spare parts for 1 year, 2 years, 5 years, or 10 years	<input type="checkbox"/>
Aft towing hook	<input type="checkbox"/>
Boarding sprayhood	<input type="checkbox"/>
Cargo tie down points in deck	<input type="checkbox"/>
Embarkation ladder	<input type="checkbox"/>
Labelling in dual language	<input type="checkbox"/>
Rescue cradle	<input type="checkbox"/>
Shock mitigating seats	<input type="checkbox"/>
Trawler net on fender	<input type="checkbox"/>

PROPULSION AND PERFORMANCE			
MERCURY 60 EFI 4-STROKE	Bollard Pull: 3.0 kN	Max Capacity: 10P	<input type="checkbox"/>
MERCURY 90 EFI 4-STROKE	Bollard Pull: TBA		<input type="checkbox"/>
Norsafe Marine Engine 90HP	Bollard Pull: 4.1 kN		<input type="checkbox"/>
Dual oil or fuel filters			<input type="checkbox"/>
Mechanical steering system			<input type="checkbox"/>
Water temp. instruments			<input type="checkbox"/>

ELECTRIC SYSTEM AND NAVIGATION	
AIS system	<input type="checkbox"/>
12V outlet in console	<input type="checkbox"/>
Ex plug for ext. power supply	<input type="checkbox"/>
Crew finder	<input type="checkbox"/>
Echo sounder	<input type="checkbox"/>
EIPRB	<input type="checkbox"/>
GPS equipment	<input type="checkbox"/>
Loud hailer	<input type="checkbox"/>
Intercom system	<input type="checkbox"/>
HID or LED search lights	<input type="checkbox"/>
Loose el. cable for ext. power supply	<input type="checkbox"/>
Electrical system according to NMD requirements	<input type="checkbox"/>
Radar equipment	<input type="checkbox"/>
SART	<input type="checkbox"/>
Strobe lights	<input type="checkbox"/>



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VHF equipment	<input type="checkbox"/>
Work lights on self-righting frame	<input type="checkbox"/>

DOCUMENTATION	
Factory acceptance test procedure	<input type="checkbox"/>
Factory acceptance test report	<input type="checkbox"/>
Inspection and test plan	<input type="checkbox"/>
Shipping, handling and lifting procedure	<input type="checkbox"/>
Packing & unpacking procedure	<input type="checkbox"/>
Commissioning procedure	<input type="checkbox"/>
TAG list	<input type="checkbox"/>
Fuel system drawing	<input type="checkbox"/>
Steering system drawing	<input type="checkbox"/>
Engine, propulsion, exhaust and cooling system drawing	<input type="checkbox"/>
Bilge system drawing	<input type="checkbox"/>
Noise test report	<input type="checkbox"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>

5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe Merlin-615 Outboard fits below davit models and variants. HS=high speed, HST=high speed tension

NDA-25	SOLAS/HS/HST/RORO
NDC-40	SOLAS
NRB-30	SOLAS/HS/HST
Others on request	

6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Fuel	Marine Gasoline according to engine manual specification
Connection cable	From starter cabinet to rescue boat supply plug



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