



ZF 220 A

10 ° Down angle, direct mount marine transmission.

Maximum Input**

Duty	kW	hp	RPM
Pleasure	419	562	4500
Light	394	528	4500
Medium	335	449	4500
Continuous	192	258	3200

** SAE J1349 method determined

Description

- Reverse reduction marine transmission with hydraulically actuated multi-disc clutches .
- Suitable for high performance applications in luxury motor-yachts, sport fishers, express cruisers etc .
- Robust design also withstands continuous duty in workboat applications .
- Fully works tested, reliable and simple to install .
- Design, manufacture and quality control standards comply with ISO 9001 .
- Compatible with all types of engines and propulsion systems, including waterjets and surface- piercing propellers, as applicable .

Features

- Lightweight and robust aluminum alloy casing (sea water resistant) .
- Case hardened and precisely ground gear teeth for long life and smooth running .
- Output shaft thrust bearing designed to take maximum propeller thrust astern and ahead .
- Smooth and reliable hydraulic shifting with control lever for attachment of push-pull cable .
- Suitable for twin engine installations (same ratio and torque capacity in ahead or astern mode) .
- Replaceable oil filter cartridge .
- Compact, space saving design; 10 ° down-angle and "Lambda" beveloid gear principle .

Options

- Engine-matched dual stage coupling .
- SAE 2, SAE 3 and B.W. adapters .
- Oil cooler complete with fittings and flexible oil hoses .
- Mounting brackets .
- Propeller shaft flange and coupling bolt sets .
- Classification by all major Classification Societies on request .
- Trolling valve for slow-speed drive .

Zf Marine Propulsion Systems Operating Manual

Léo Pomar



Zf Marine Propulsion Systems Operating Manual:

Mergent International Manual ,2009 **Plunkett's Engineering & Research Industry Almanac 2006: The Only Complete Guide to the Business of Research, Development and Engineering** Jack W. Plunkett,2006-05 A complete guide to trends and leading companies in the Engineering and Research business fields design development and technology based research Includes market analysis R D data and several statistical tables Nearly 400 in depth profiles of Engineering and Research firms *Boat Mechanical Systems Handbook (PB)* Dave Gerr,2009-01-09 The First Ever Guide for Optimizing Boat Systems This guide is invaluable for anyone designing or installing mechanical systems on a new boat retrofitting an existing boat or evaluating a boat s operating condition Writing for designers builders owners buyers mechanics surveyors and insurers of sailboats powerboats and commercial vessels Dave Gerr provides design and installation guidance for each major mechanical system plus pragmatic guidelines and real world interpretations of American Boat there s no mention of sailing rigs but every other conceivable system is covered more or less exhaustively PETER NIELSEN SAIL November 2009 Praise for Dave Gerr s previous books The Elements of Boat Strength Certain books because of their thoroughness tend to become industry standards such is the case with The Elements of Boat Strength Ocean Navigator Propeller Handbook The best layman s guide we ve ever read Practical Sailor Gerr made a complicated topic understandable and put it into a handbook that is easy to use WoodenBoat The Nature of Boats Offers in a disarmingly charming fashion a look at all aspects of what makes a boat work If you are not nautically obsessed prior to reading this book you most certainly will be afterward Sailing *High Speed Catamarans and Multihulls* Liang Yun,Alan Bliault,Huan Zong Rong,2018-10-29 High speed catamaran and multihull high speed marine vessel have become very popular in the last two decades The catamaran has become the vessel of choice for the majority of high speed ferry operators worldwide There have been significant advances in structural materials and structural design has been combined with higher power density and fuel efficient engines to deliver ferries of increasing size The multihull has proven itself to be a suitable configuration for active power projection across oceans as well as for coastal patrol and protection operating at high speedd for insertion or retrieval with a low energy capability At present there is no easily accessible material covering the combination of hydrodynamics aerodynamics and design issues including structures powering and propulsion for these vehicles Coverage in High Speed Catamarans and Multihulls includes an introduction to the history evolution and development of catamarans followed by a theoretical calculation of wave resistance in shallow and deep water as well as the drag components of the multihull A discussion of vessel concept design describing design characteristics empirical regression for determination of principal dimensions in preliminary design general arrangement and methods is also included The book concludes with a discussion of experimental future vehicles currently in development including the small waterplane twin hull vessels wave piercing catamarans planing catamarans tunnel planing catamarans and other multihull vessels **MotorBoating** ,2001-07 [Yachting](#) ,1998-05

MotorBoating ,1988-07 **MotorBoating** ,1999-01 **MotorBoating** ,2003-01 *Plunkett's Automobile Industry Almanac: Automobile, Truck and Specialty Vehicle Industry Market Research, Statistics, Trends & Leading Companies* Jack W. Plunkett,2007-10 Provides information on the truck and specialty vehicles business including automotive industry trends and market research mergers acquisitions globalization automobile manufacturers truck makers makers of specialty vehicles such as RVs automobile loans insurance and other financial services dealerships and components manufacturers *U.S. Coast Guard Systems Times* ,2004 **Fairplay** ,2005 *MotorBoating* ,2009-05 **Global Shipbuilding Industry Handbook Volume 1. European Union- Strategic Information and Contacts** IBP, Inc.,2014-12-02 Global Shipbuilding Industry Handbook Volume 1 European Union Strategic Information and Contacts *MotorBoating* ,2011-06
MotorBoating ,2006-04 *Pacific Fishing* ,2003 *Chapman Piloting & Seamanship 69th Edition* Chapman,Jonathan Eaton,2021-10-19 The authoritative 920 page boating book covers all aspects of sailing and boat handling for any boater Set sail with confidence with Chapman s every time With three million copies sold this essential sailing book is the trusted resource for boaters of all levels from those learning how to tie knots to seasoned sailors who want to explore skills like star navigation Chapman s covers the rich traditions of seamanship as well as modern advances in boating technology and practices Power boaters and sailors alike will have at their fingertips all the information they need about Navigating day or night in any weather on inland or coastal waters Getting underway returning to a marina and mooring under power or sail Sailboat maintenance and sharing the waters with other vessels Reading the weather and using radar Knot tying and boat maintenance and so much more Recognized as essential by the U S Coast Guard Auxiliary Chapman is an indispensable and practical resource for all boaters Its comprehensive content including knot tying techniques and sailing knots sailing alone and even sailboat rigging makes it an invaluable addition to any sailor s library When you re looking for thoughtful gifts for boaters or gifts for sailors Chapman stands out as the timeless boating book of record appreciated by educators and enthusiasts alike for more than a century Its in depth 4 200 entry index makes accessing information a breeze It s the ideal sailing coffee table book for any nautical home library along with the handy ebook edition means you can also easily take it on board whenever you set sail Both resources together make for the perfect sailbook gifts *Marine Engineers Review* ,2003 **Seaforth World Naval Review 2020** Conrad Waters,2019-10-30 This anthology features in depth assessments of naval innovations and developments around the world by leading experts in the field The Seaforth World Naval Review 2020 provides an authoritative summary of cutting edge naval developments across the globe Regional surveys of fleet evolution and procurement by editor Conrad Waters are supplemented by in depth articles from a range of experts focusing on significant new warships technological advances and specific navies This volume features coverage of the US Navy s Virginia class submarines the Royal Navy s Tide class tankers and the Indian P28 Komortor class corvettes Recent developments in submarine technology are analyzed by Norman Friedman while David Hobbs usual review of naval aviation focusses on the

F35 Lightning II In depth fleet reviews look at Finland and Germany and analyze how they are responding to the increased Russian threat Now firmly established as providing the only annual naval overview of its type The Seaforth World Naval Review is essential reading for anyone interested in contemporary maritime affairs

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