



# *We optimise the design of your vessels and equipment*



IHC Drives & Automation presents its innovative medium voltage (MV) drive. Designed exclusively for the marine industry, this vital on board component provides a simple, flexible and economical means of integrating and controlling the speed of purpose-built motors.

Based on a modular approach, the compact IHC MV drive helps to save space and weight, optimising the overall design of a vessel and its equipment. In addition, it connects directly to the fresh water cooling system and remains free from dust and dirt particle pollution, which further reduces maintenance requirements and increases uptime.

The MV drive is designed to withstand harsh marine environments, and is fully integrated within IHC's vessel automation platform to maximise compatibility and user-friendliness.

*"IHC Drives and Automation designs, engineers and builds complete electrical systems and the automation to control all equipment on board a vessel," says Senior Specialist Pieter Vos. "The development of our advanced MV drive takes us one step further in our goal to deliver an integrated solution to our customers, which will fully optimise the design of their equipment – and their entire operation."*

***"We optimise  
the design  
of your vessels  
and equipment"***

**The technology innovator.**

## Marine medium voltage drive

### Features

- multi drive design
- modular, marinised, compact and light weight
- fresh water-cooled, no need for deionisation
- plug-and-play
- easy to maintain.

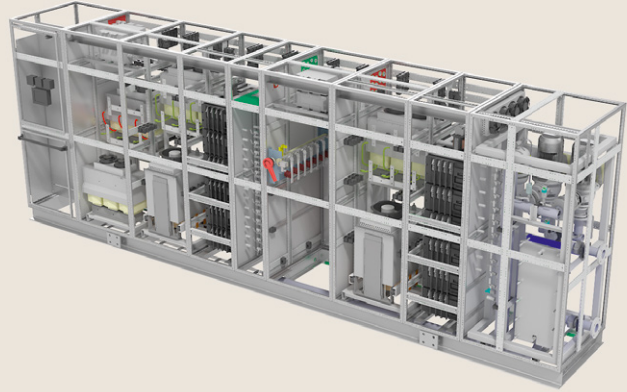


Table: Power system specifications

Output level	[kV]	3.3 or 4.16				
Output power	[MW]	2	3	4	6	11(DFE)
Input frequency	[Hz]	50-60				
Output frequency	[Hz]	0-100				
Dimension height	[m]	2.2	2.2	2.2	2.2	2.2
Dimension depth	[m]	1.1	1.1	1.1	1.1	1.1
Dimension width	[m]	3.7	3.9	5.1	5.4	5.8
Weight	[tonnes]	5.2	5.8	7.0	9.0	9.6
Cooling water	[°C]	0-40 no condensation allowed, water/glycol (80%/20%)				
Water flow	[l/min]	180	250	360	500	800
Efficiency	[%]	>97.5	>97.5	>97.5	>97.5	>98
Ambient temperature	[°C]	-10 – +55				
Topology		Three-level neutral point clamped (3L-NPC)				
Power device		HV IGBT				
Control method		Closed-loop vector control (with pulse encoder feedback) Sensor less vector control (without pulse encoder feedback) Open-loop control (without pulse encoder feedback)				

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