

Naval & Land Switchboards

CAPABILITY SHEET - FAULT-RATED DISTRIBUTION, DISCRIMINATION AND SEGREGATION

THE SYSTEM

WHAT	Main and distribution switchboards for vessels, unit-level boards for field formations, shore-supply and changeover boards, and retrofits.
OUR ROLE	Enclosure and structure, busbar sizing and bracing, protection and coordination study, earthing, control, qualification, type testing, AMC.
STATUS	Quoted across land and naval switchboard requirements for defence services; no delivered switchboard of the class is claimed.

THE GOVERNING IDEA

SIZED FOR THE FAULT	Running current sets the copper. Prospective short-circuit current sets everything else, because that is when the bars try to move.
DISCRIMINATION IS THE DESIGN	Nearest device clears the fault and nothing upstream. Overlapping settings mean one failed consumer takes the whole platform.
WORKED ON WHILE LIVE	Distribution cannot be switched off on a platform, so segregation, shutters and interlocks are structure rather than options.

THE MACHINE

BUSBARS + WITHSTAND	Spacing, insulator pitch and bracing set by short-circuit forces, with clearance and creepage - proven by type test, not by calculation alone.
PROTECTION + STUDY	Breakers, relays, settings and earthing, with a coordination study that carries real margin at every level of the network.
STRUCTURE + ENVIRONMENT	Shock and vibration mounting, salt and humidity, and an access envelope the compartment fixed before the load schedule existed.

DISTINCT & HONEST

SOURCE VS DISTRIBUTION	Shore supply brings power to a berthed vessel from ashore. This is the platform's own distribution, alongside or at sea.
THE LOOP CLOSES	A coordination study is a set of assumptions about how breakers behave. A relay test bench is how those assumptions get checked.
ENGAGEMENT	Send the load schedule, fault levels, compartment envelope and environmental class to sales@neometrixgroup.com for a compliance matrix.

DEFENCE PROGRAMMES DESK

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