ALSTOM RELAY PRODUCT RANGE

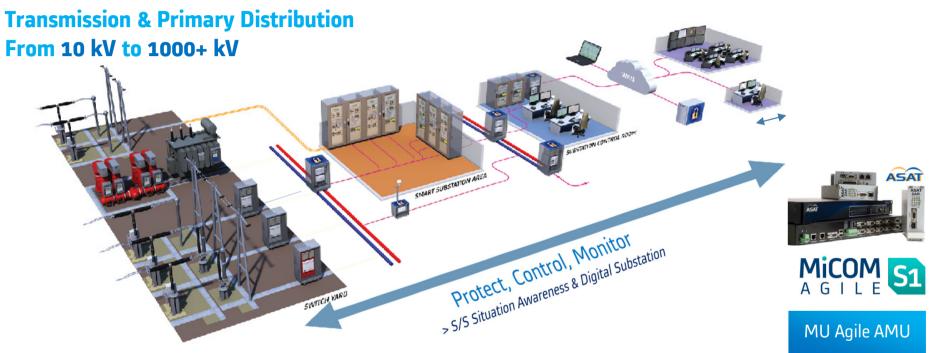
Jakarta February 2014

GRID



Substation Automation Solutions Offer

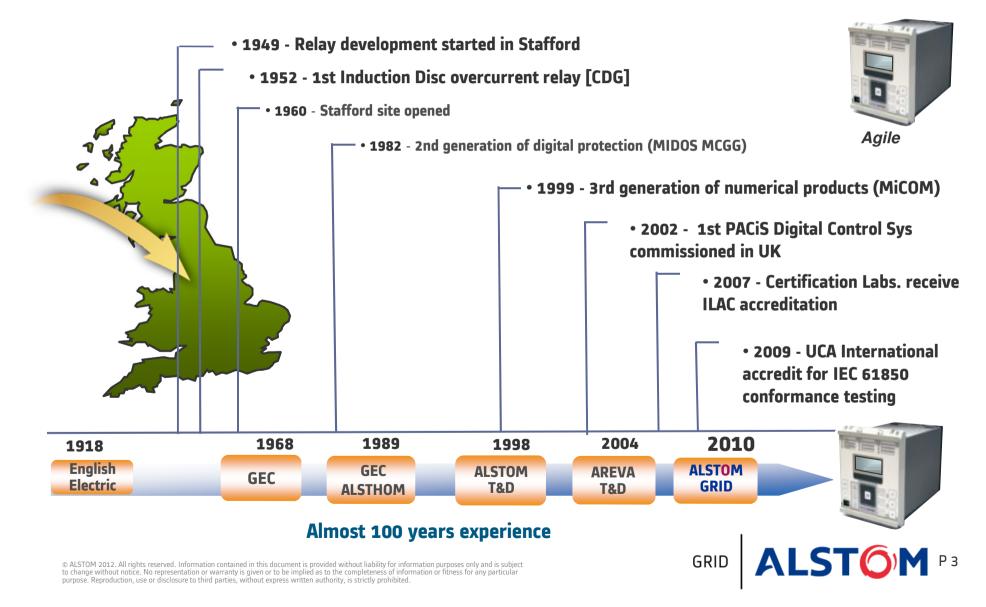




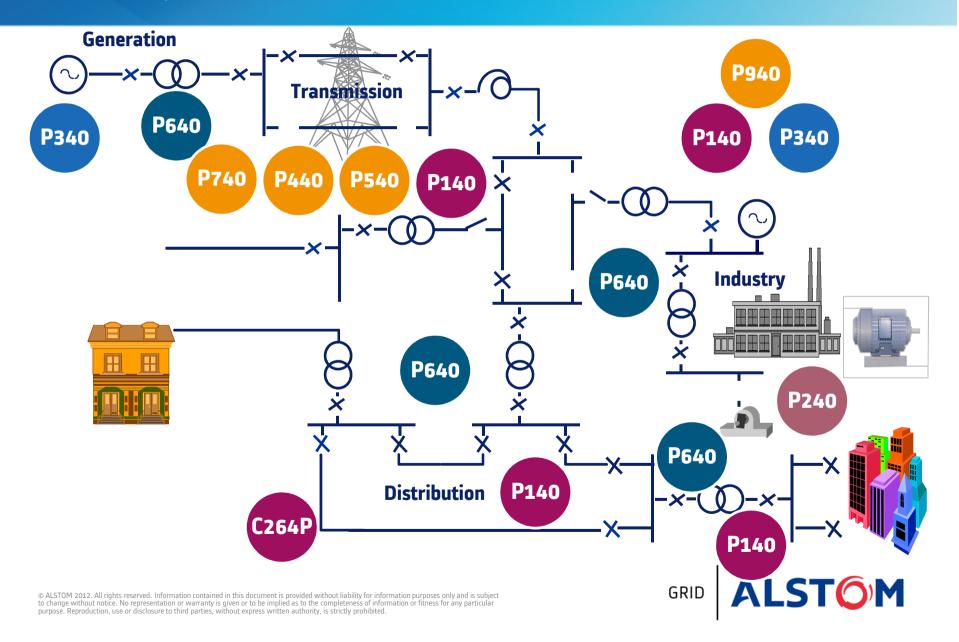


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ALSTOM GRID Protection Covers all Areas of your Power System



Substation Automation Solutions Portfolio and offering

Numerical Protection Relays MiCOM Alstom Px40

> MiCOM Px40 Agile Feeder Management

Digital Protection Relays MiCOM Alstom Px40-9.2

P847 Phasor Measurement Unit Mx70 Measurement

> Electromechanical Hinged Armature relays







Digital Control System DS Agile incl. C264

Substation Digitalization DAP Server (ASAT)

Control Switches

Legacy DCS SPACE2000, PSCN, PACiS

> Conventional Control Protection panels

> > ALS'

GRID



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MiCOM Alstom **Complete Protection Range**



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MiCOM S1 Agile

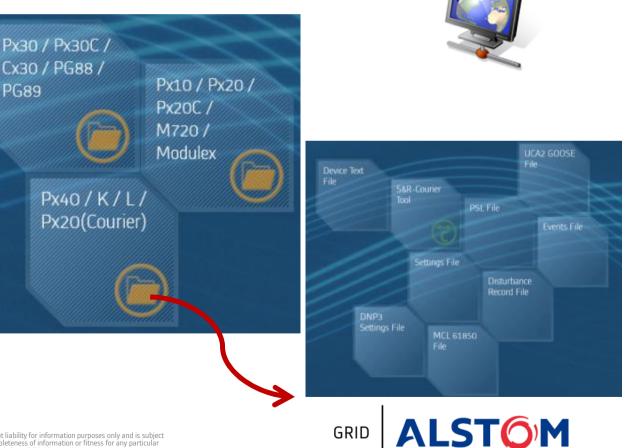


System Explorer

- Displays a virtual system of the managed devices.
- System is graphically displayed as tree with different nodes referred as elements (system, substations, voltage levels, bays, etc.,)

Device Configuration

- Setting file and logic creation, editing and transfer to and from the IEDs.
- Management of events and disturbance records



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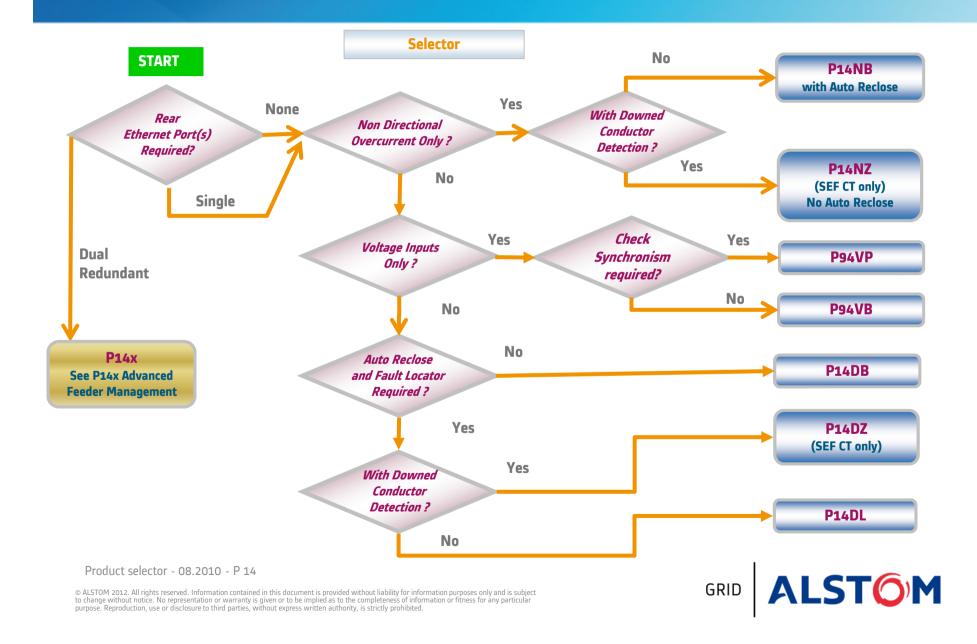


Product Selection

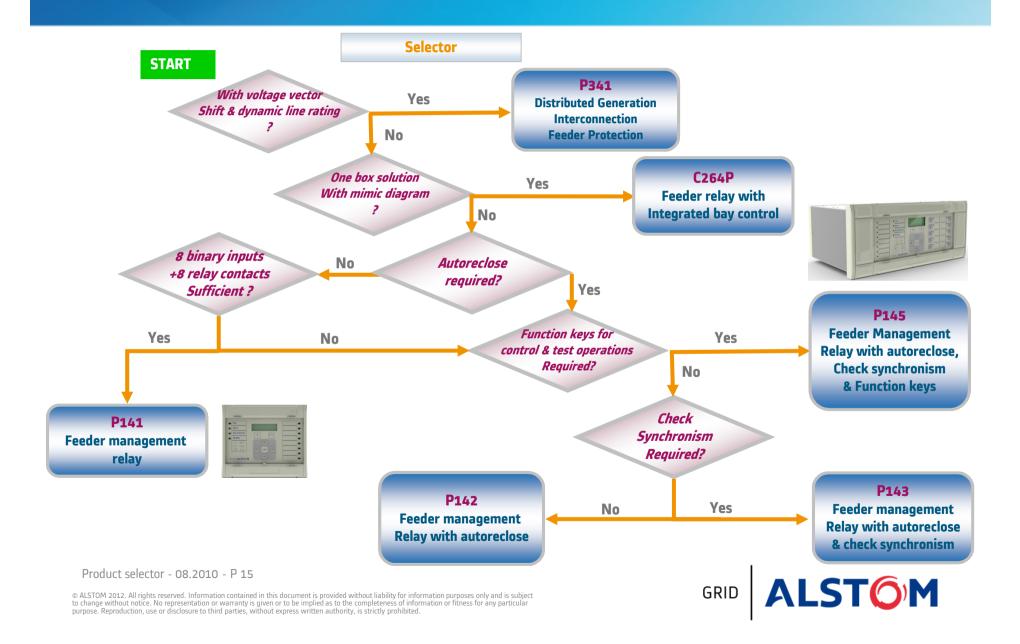
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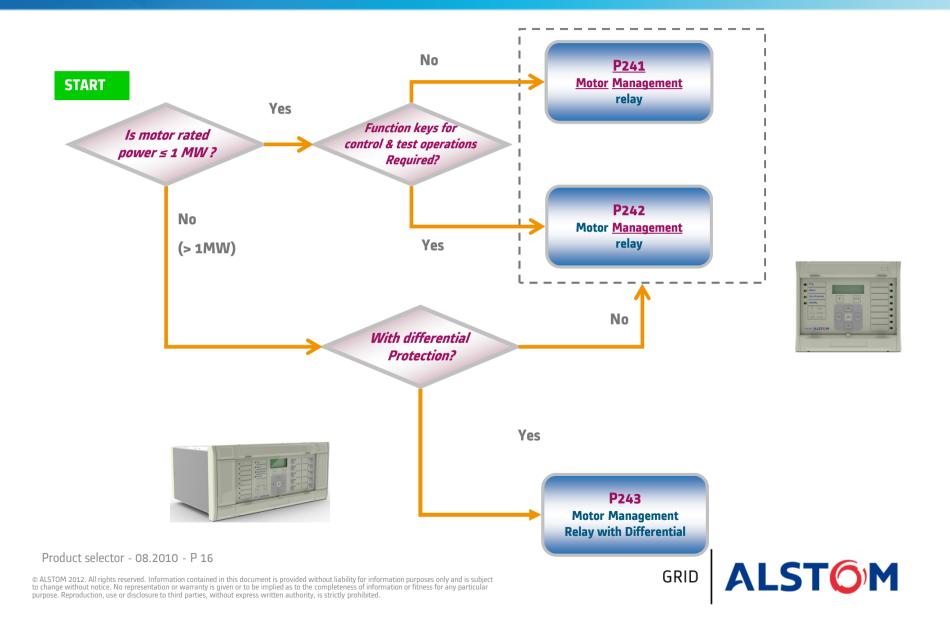
Overcurrent & Voltage Feeder Relays



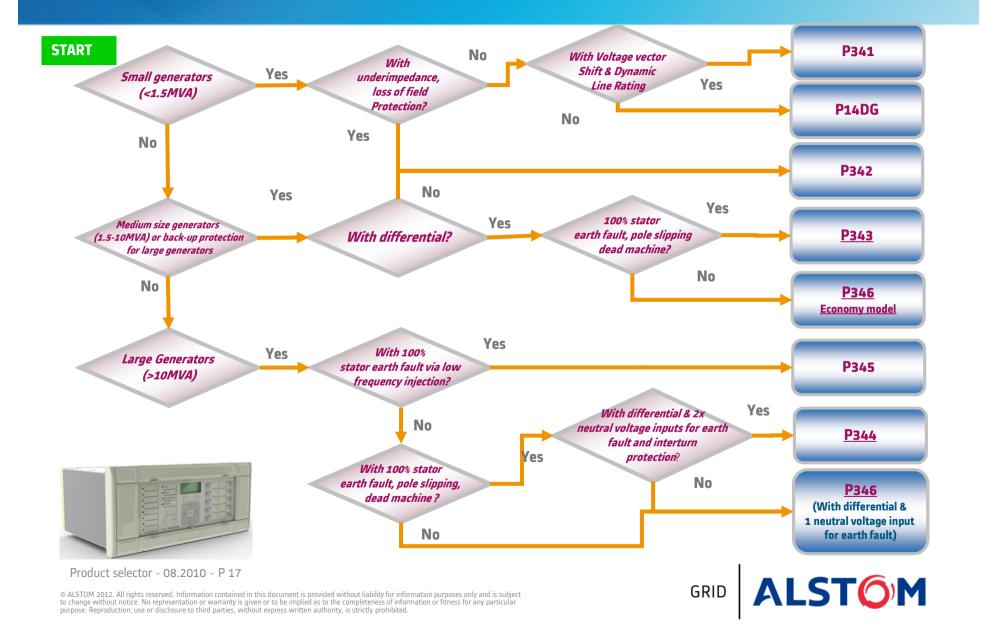
Advanced Feeder Management



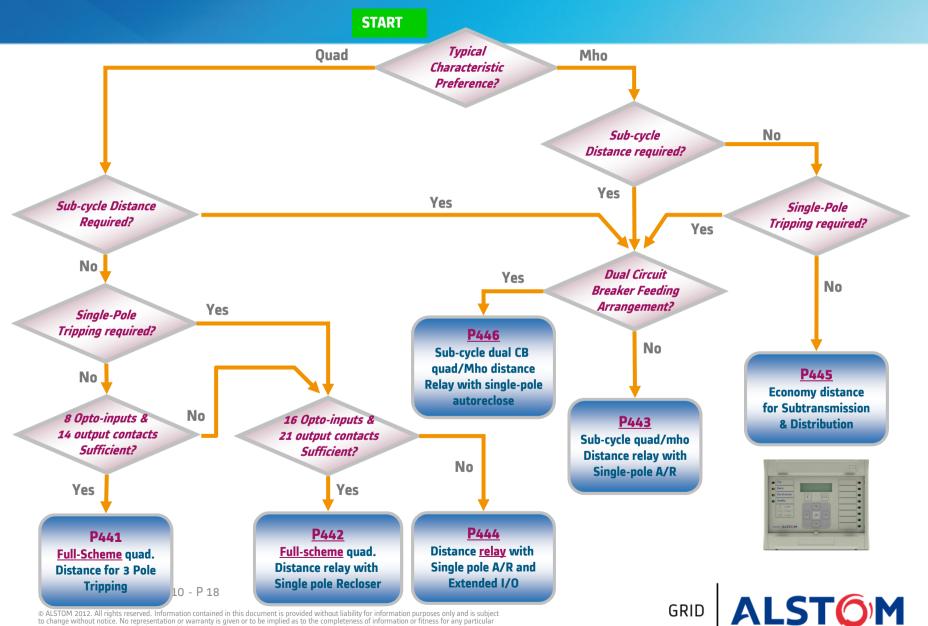
Motor Protection



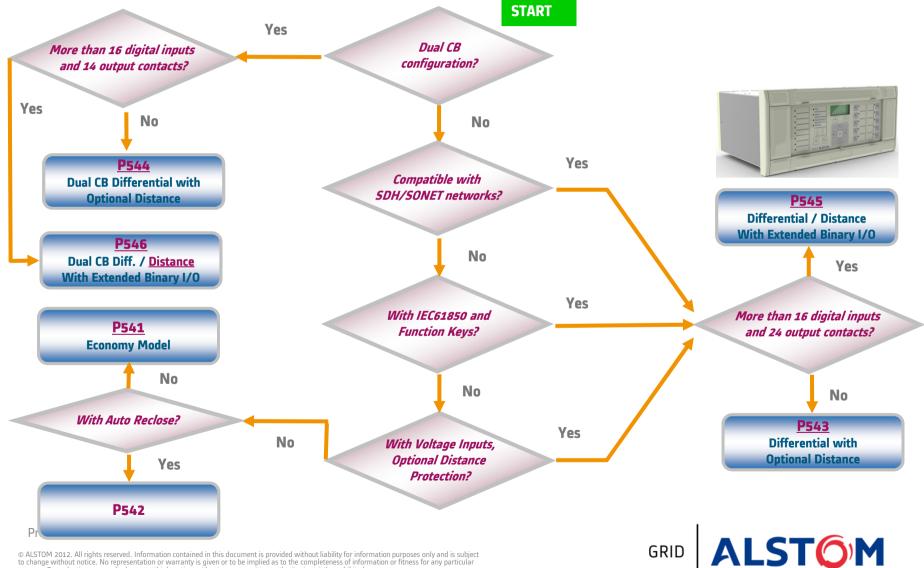
Generator Protection



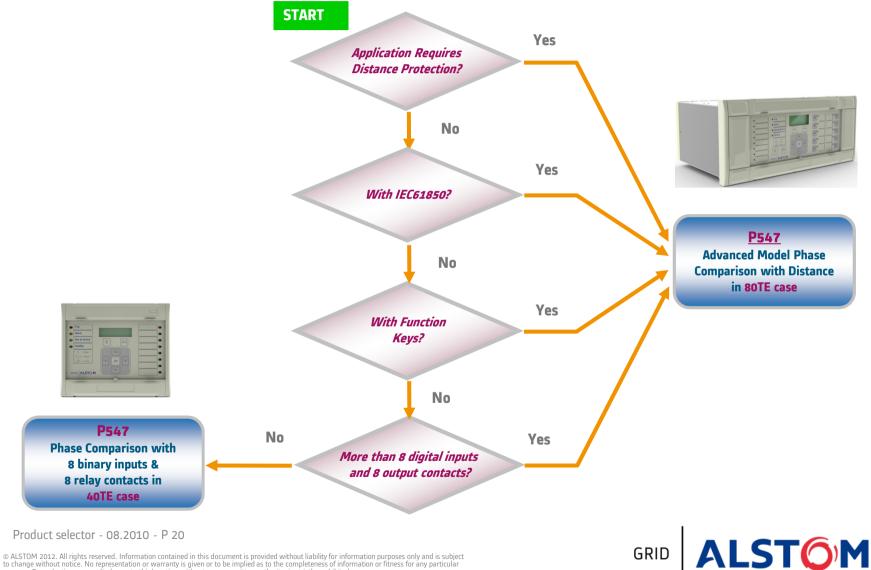
Distance Protection



Line & Cable Differential

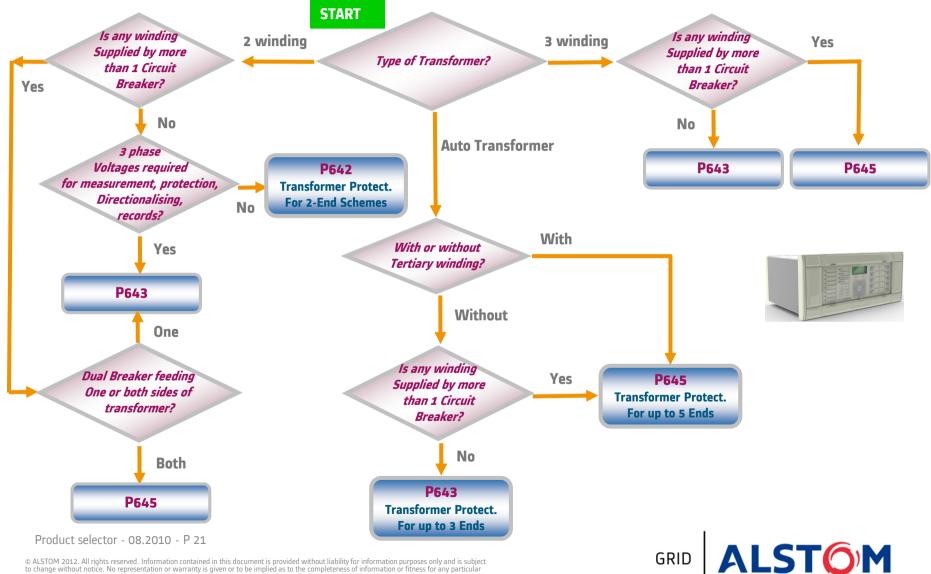


Phase Comparison Protection

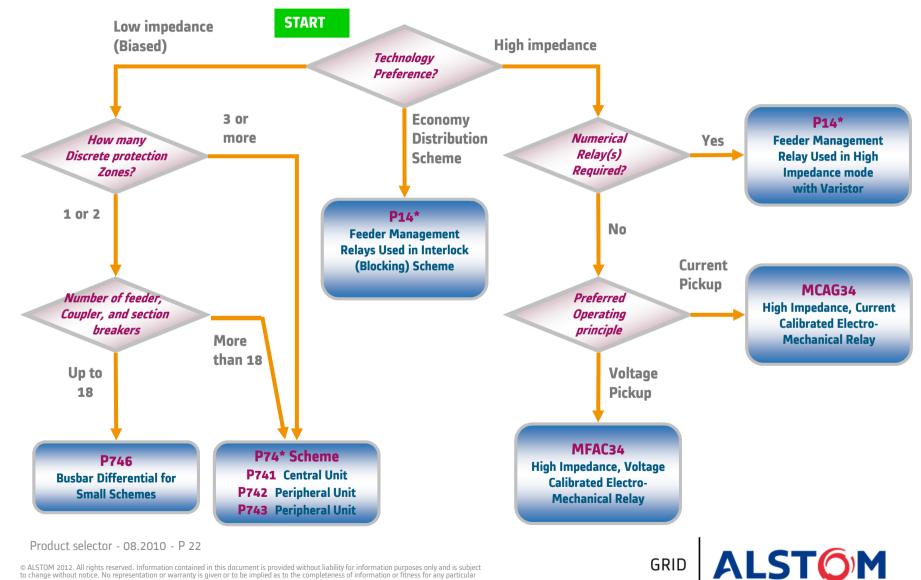


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Transformer Protection

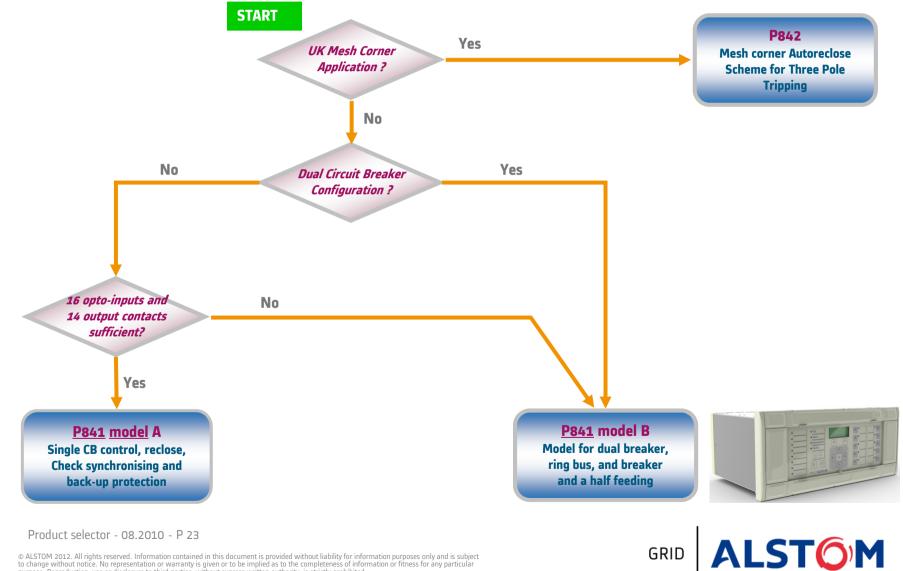


Busbar Protection

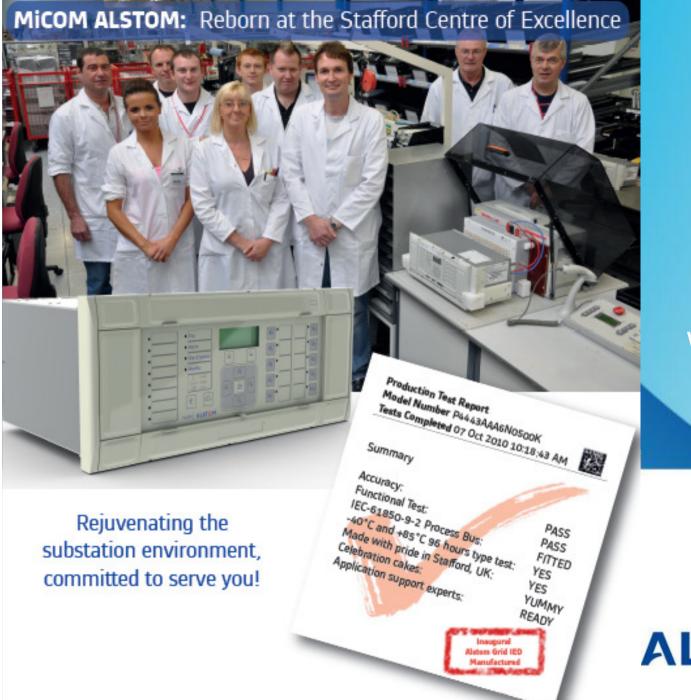


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Autoreclose & Breaker Fail



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ALSTOM GRID

We are shaping the Smart Grid

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