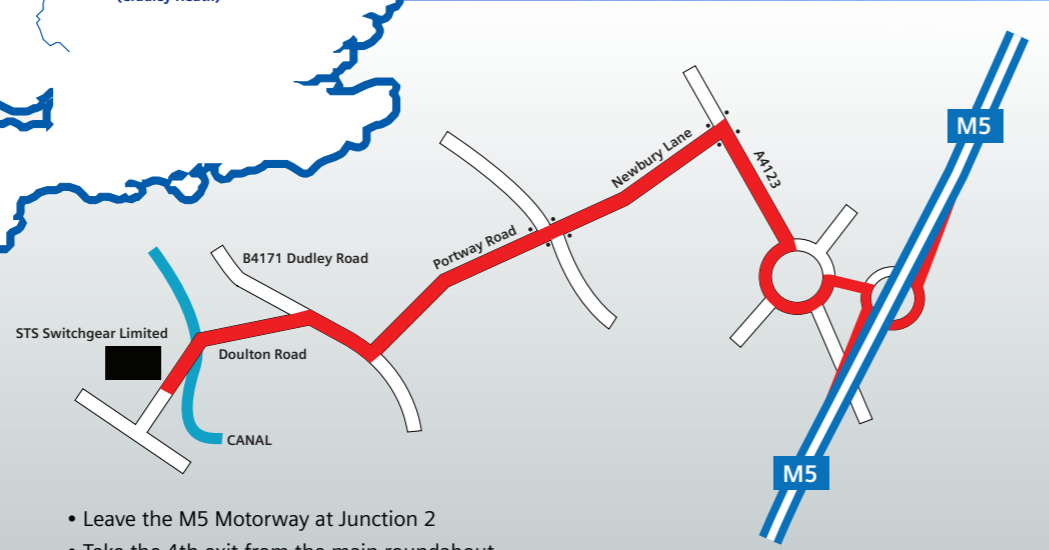




**Siemens Low Voltage Solutions**  
 LV Switchboards  
 LV Motor Control Centres

**sivacon**  
 INTEGRATORS



- Leave the M5 Motorway at Junction 2
- Take the 4th exit from the main roundabout signposted A4123 Dudley & Wolverhampton
- Turn LEFT at the 2nd set of traffic lights into Newbury Road
- Continue to the end of the road and turn RIGHT into Dudley Road
- Take the 2nd LEFT into Doulton Road
- The factory is set back from the road on the RIGHT (just over the canal)

**STS Switchgear Limited**  
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 Cradley Heath  
 West Midlands, B64 5QB  
 United Kingdom

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 Fax: +44 (0)1384 567 710  
 Web: [www.sts-switchgear.com](http://www.sts-switchgear.com)  
 Email: [switchgear@sts-international.co.uk](mailto:switchgear@sts-international.co.uk)

**Siemens Support:**  
 Tel: +44 (0)161 446 6400



### SIVACON Integrators

Type testing in low voltage switchgear is increasingly becoming an issue of prime importance worldwide. With the SIVACON Technology Partner concept, Siemens are bringing the versatile and type-tested SIVACON low-voltage switchboard to your door. To this end, Siemens have selected competent, local switchgear manufacturers and has appointed them SIVACON Technology Partners. This means that you always have the wealth of Siemens know-how at conditions that only a local supplier can offer. Fast, flexible and favourably priced.



### Technical Data at a Glance

SIVACON is a range of Low Voltage switchboards and motor control centres suitable for all building and industrial applications.

SIVACON power distribution boards and motor control centres can be used to all power levels up to and including 7400A.



### History

STS Switchgear is a well known and respected Midlands based company specialising in the design, manufacture and installation/ commissioning of Power Distribution switchboards and Motor Control Centres.

STS Switchgear is the consolidation of two independent companies **Field and Grant**, who were established in 1947 and specialised in supplying MCC's to industries within the UK. And **Spectar Switchgear**, who were established in 1966 and who specialised in the supply of Switchboards and Packaged substations.



### Product Profile

- Turnkey MV/LV Power Distribution Projects
- 4.5MVA Package Substations
- 8000A Low Voltage Switchboards
- 4000A Fixed Pattern MCC's
- 7400A AFC Withdrawable MCC's
- PLC and SCADA Systems
- Site Services – Maintenance, Installation and Commissioning

### In-house Capabilities

STS Switchgear manufactures low voltage distribution panels and motors control centres and is part of STS International, a group of companies with a multi million pound turnover that operates in four diverse sectors, the three other divisions being:

- Electro-mechanical and electronic systems for the railway industry;
- Motors – supplying a wide range of AC and DC Motors;
- Components, systems and services for the defence sector.

STS Switchgear's ability to design and develop tailor made low voltage MCC / distribution boards including PLC solutions is well supported by their Site Services Specialists. Some of the services this team provides include maintenance, installation and commissioning.



### Industries serviced

- Automotive
- Chemical and Pharmaceutical
- Food and Beverage
- Nuclear and Power Generation
- Building Services
- Infrastructure
- Finance and IT
- Mining and Metals
- Pulp and Paper
- Data Centres
- Oil and Gas

<b>Standards and Specifications</b>	Type-tested switchgear and control gear assembly (TTA) Testing of response to internal faults (arcing faults)	IEC60439-1, DIN EN 60439-1 (VDE 0660 part 500) IEC61641, VDE0660 part 500, supplement 2
<b>Creepage and Clearances</b>	Rated impulse withstand voltage (Uimp)	8kV
	Overvoltage category	III
	Pollution degree	3
<b>Rated Insulation Voltage (Ui)</b>		1000V
<b>Rated Operational Voltage (Ue)</b>	Main horizontal busbars	Up to 690V
<b>Rated Currents (In) Busbars (3 and 4 Pole)</b>	Form 1 to Form 4 Type 7 To IEC 60529, EN 60529	Rated current up to 6300A Rated peak current up to 375kA Rated short time current 50KA, 1S, 50KA 3S, 80KA 1S
<b>Internal Separation</b>		IEC60439-1, section 7.7, BS EN 60439-1
<b>Degree of Protection</b>		IP31 up to IP54
<b>Design Types</b>		Fixed mounted, In-line, Plug-in, Withdrawable

Safety Features	SIVACON
Verified safety system for every specifically designed switchboard	TTA – type tested standard modules acc. To IEC 60439-1
Standard operator interface for withdrawable units	Standard operator interface for all withdrawable units: <ul style="list-style-type: none"> <li>• Maloperations are avoided</li> <li>• Less time required for instruction</li> </ul>
Arcing faults safety (IEC 61641) limiting of the fault:	Graduated upgrade concept with additive modules for active and passive <ul style="list-style-type: none"> <li>• 690V, 50kA, 300ms</li> <li>• 440V, 50kA, 300ms</li> <li>• Insulated busbars as additive option</li> </ul>