Fire Rated

## General Description

Craig & Derricott have been designing electrical switchgear for more than 60 years and it's from this expertise that a development for the ventilation industry has led to the extensive 'Fire Rated' range. Contact stability at extended temperatures, typically 400°C for 2 hours (F400), is the basis of the design.

The critical role these switches perform is to maintain the power to vital equipment such as smoke extraction fans, allowing the safe evacuation of business, car-parks or public areas. Often these devices are mounted local to the extraction fans and, as an assembly, it is essential that they comply with the stringent thermal requirements of BS EN 12101-3: 2003.

The complete range are housed in metal enclosures; the user can therefore be assured that there will be no distortion affecting the connecting cables and their supports under high temperature conditions.

### *Catalogue References.*

| Rating | Format | Assembly Form | Catalogue No. (Finished Red) | Temp. Class. | Encl. size |
|---|---|---|---|---|---|
| 20A | 2P | Lid mounted in sheet steel enclosure | FSDMR0202 | F400 | A |
| | 3P | | FSDMR0203 | | |
| | 3P+2EB Aux | | FSDMR0203EB | | |
| | 3P+N | | FSDMR0203N | | |
| | 4P | | FSDMR0204 | | |
| | 6P | | FSDMR0206 | | |
| 32A | 2P | Lid mounted in die-cast aluminium enclosure | FSDDR0322 | F400 | B |
| | 3P | | FSDDR0323 | | |
| | 3P+2EB Aux | | FSDDR0323EB | | |
| | 3P+N | | FSDDR0323N | | |
| | 4P | | FSDDR0324 | | |
| | 6P | | FSDDR0326 | | |
| | 6P+2EB Aux | | FSDDR0326EB | | |
| 63A | 2P | Base mounted in hinged lid sheet steel enclosure | FSDMR0632 | F400 | C |
| | 3P | | FSDMR0633 | | |
| | 3P+2EB Aux | | FSDMR0633EB | | |
| | 3P+N | | FSDMR0633N | | |
| | 4P | | FSDMR0634 | | |
| | 6P | | FSDMR0636 | | |
| | 6P+2EB Aux | | FSDMR0636EB | | |
| 125A | 2P | | RS1BD11/HPHT | F400 | D |
| | 3P | | RS1BT21/HPHT | | |
| | 3P+2EB Aux | | RS1BT31/2EB/HPHT | | |
| | 3P+N | | RS1BT21/HPHT/NL | | |
| | 4P | | RS1BQ21HPHT | | |
| | 6P | | RS1BY31/HPHT | | |
| | 6P+2EB Aux | | RS1BY41/2EB/HPHT | | |
| 160A | 3P | | FSDMR1603 | F300 | 4* |
| | 4P | | FSDMR1604 | | |
| | 6P | | FSDMR1606 | | 5* |
| | 6P+2EB Aux | | FSDMR1606EB | | |
| 200A | 3P | | FSDMR2003 | F300 | 5* |
| | 4P | | FSDMR2004 | | |
| | 6P | | FSDMR2006 | | 7* |

** Enclosure sizes from the Standard 'Hinged Lid' range - see page 32*

### *Specification*

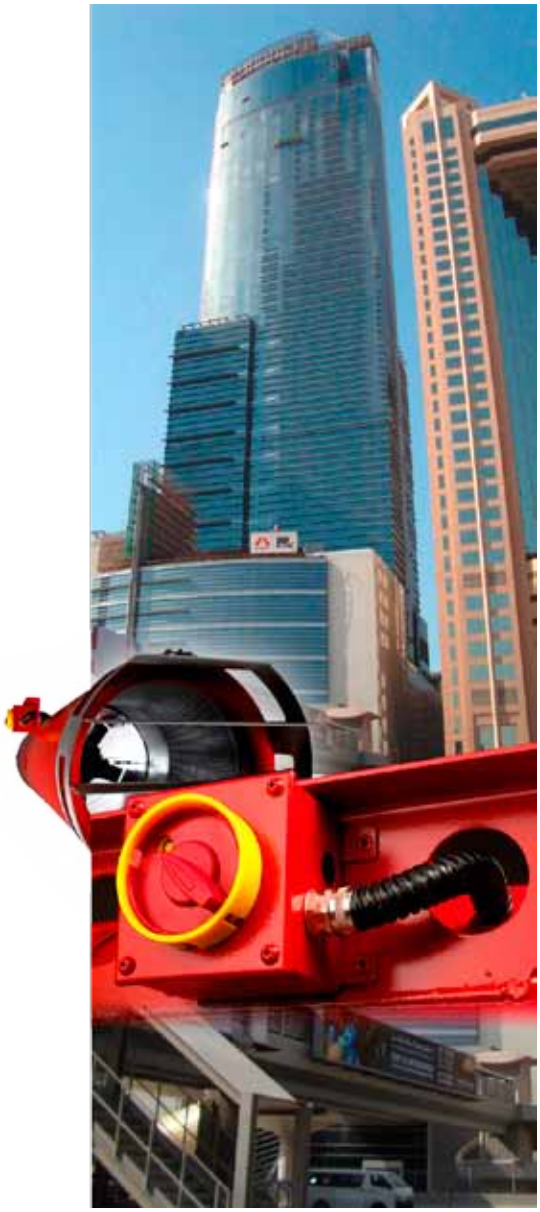
Within BS EN 12101-3: 2003 (Smoke and heat controls) there are several classes of duty which define a specific temperature gradient, upper temperature limit and time period.

F200 200°C for 120 min. F300 300°C for 60 min. F400 400°C for 120 min.

The specification calls for dynamic tests designed to check the performance of the complete ventilation system. The critical function of the associated isolator is required to maintain the essential supply for the duration of the test.

***"Smoke kills more people than fire"***

A well known fact, and it's the job of the ventilation designer to ensure this doesn't happen - to do this effectively he will need continuous power.



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