

## 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		
63A	2P	Lid mounted in die-cast aluminium enclosure	FSDDR0326EB	F400	B
	3P		FSDDR0327		
	3P+2EB Aux		FSDDR0327EB		
	3P+N		FSDDR0327N		
	4P		FSDDR0328		
	6P		FSDDR0330		
125A	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		
160A	2P	Base mounted in hinged lid sheet steel enclosure	FSDMR0636EB	F400	C
	3P		RS1BD11/HPHT		
	3P+2EB Aux		RS1BT21/HPHT		
	3P+N		RS1BT31/2EB/HPHT		
	4P		RS1BT21/HPHT/NL		
	6P		RS1BQ21HPHT		
200A	2P	Base mounted in hinged lid sheet steel enclosure	RS1BY31/HPHT	F400	D
	3P		RS1BY41/2EB/HPHT		
	3P+2EB Aux		FSDMR1603		
	4P		FSDMR1604		
	6P		FSDMR1606		
	6P+2EB Aux		FSDMR1606EB		
160A	3P	Base mounted in hinged lid sheet steel enclosure	FSDMR2003	F300	4*
	4P		FSDMR2004		5*
	6P		FSDMR2006		7*
200A	3P	Base mounted in hinged lid sheet steel enclosure	FSDMR2003	F300	5*
	4P		FSDMR2004		5*
	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.

