

MODAN[®] System

Technical data

Standards and regulations	IEC/EN 60439-1, VDE 0660 Part 500	
Climatic proofing	Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30	
Ambient temperature	°C	-5 to +40, average over 24 hours: +35
Degree of protection	IP30/31, IP54 to IEC/EN 60529/DIN 40050	
Installation requirements	Indoor installation to IEC/EN 60439	
Arc-fault test (excluding MODAN F)	To EN 60439-1 supplement 2*VDE 0660 Part 500 from 10/97 for testing the behaviour with internal malfunctions of low-voltage switchgear combinations ... 65 kA _{rms} , 100 ms	
Fieldbus communication	PROFIBUS; EN 50 170 up to 1.5 MBaud	

Electrical data

Rated insulation voltage U_i	V	1000 ~/1200 = to IEC/EN 60 947-1						
Rated operational voltage U_e	V	690 to DIN IEC 60038						
Rated frequency	Hz	40 – 60						
Rated current of the main busbars	A	1600	2000	2500	3200	4000	5000	6300
Rated short-time withstand current I_{cw} 1 s	kA	50	65	65	80	100	100	100
Rated current of the dropper bars	A	900	1000	1250	1600	2 × 1000	2 × 1600	1800
Rated short-time withstand current I_{cw} 1 s	kA	38	36	53	50/53	53	53	65

Mechanical data

Material/steel thickness	mm	Sheet-steel/cladding: 1.5; door: 2
Surface treatment	Hot-galvanized or structured powder spray paint on epoxide polyester base	
Colour of painted surface	RAL 7032 pebble grey to DIN 43656/light texture, paint thickness $\geq 40 \mu\text{m}$ gloss	
Resistance to chemicals	Resistance to benzine and petrol, in accordance with MCW (maximum concentration at workplace), diluted acids 10 % in accordance with MCW	
Decontaminability	Decontaminable	