



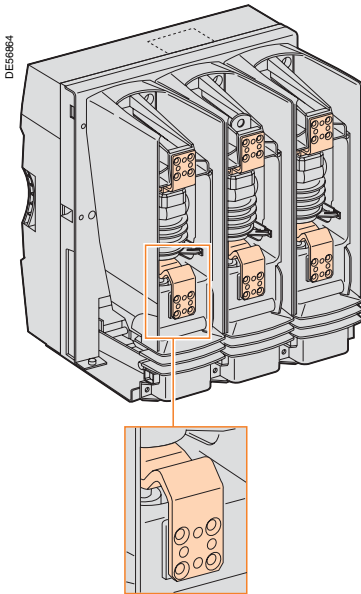
Electrical characteristics according to IEC 62271-100

Ur 7.2 kV		Isc	Ir	145	185	240
Phase to phase distance (mm)						
Ud 20 kV 50 Hz, 1 min Up 60 kV peak	25 kA	630 A	■	■		
		1250 A	■	■		
		2500 A				■
31.5 kA	630 A			■		
		1250 A		■		
		2500 A				■
40 kA	630 A					■
		1250 A				■
		2500 A				■
Ur 12 kV		Isc	Ir	145	185	240
Phase to phase distance (mm)						
Ud 28 kV 50 Hz, 1 min Up 75 kV peak	25 kA	630 A	■	■		
		1250 A	■	■		
		2500 A				■
31.5 kA	630 A			■		
		1250 A		■		
		2500 A				■
40 kA	630 A					■
		1250 A				■
		2500 A				■
Ur 17.5 kV		Isc	Ir	145	185	240
Phase to phase distance (mm)						
Ud 38 kV 50 Hz, 1 min (*) Up 95 kV peak	25 kA	630 A		■		
		1250 A		■		
		2500 A				■
31.5 kA	630 A			■		
		1250 A		■		
		2500 A				■
40 kA	630 A					■
		1250 A				■
		2500 A				■

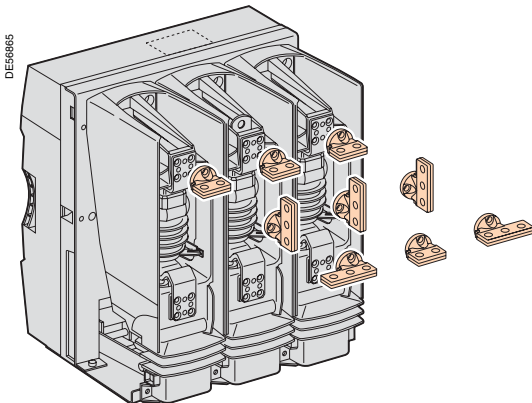
(*) Ud 42 kV 50 Hz, 1 min possible

Additional characteristics according to IEC 62271-100

Rated values			
Voltage	Ur	kV rms	7.2-12-17.5
Insulation voltage:			
- power frequency withstand	Ud	kV rms	20-28-38
- lightning impulse withstand	Up	kV peak	60-75-95
Frequency	fr	Hz	50-60
Short time withstand current	Ik/tk	kA	Isc/3 s
Peak withstand current	Ip	kA peak	2.5 Isc (50 Hz)
			2.6 Isc (60 Hz)
Short circuit making capacity		kA peak	2.5 Isc (50 Hz)
			2.6 Isc (60 Hz)
Other characteristics			
Operating sequence	O-0.3 s-CO-15 s-CO		
	O-0.3 s-CO-3 min-CO		
	O-3 min-CO-3 min-CO		
Operating times	Opening	< 50 ms	
	Breaking	< 60 ms	
	Closing	< 65 ms	
Mechanical endurance	Class	M2	
	Number of switching operations	10000	
Electrical endurance	Class	E2	
Number of switching operations at full Isc value	25 kA	100	
	31.5 kA	50	
	40 kA	30	
Capacitive current breaking capacity	Class	C1	
Operating conditions	-25°C to +40°C		
Average relative humidity	Over 24 h	< 95%	
	Over 1 month	< 90%	



Connection terminal



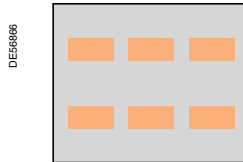
3 connector sets

Composition

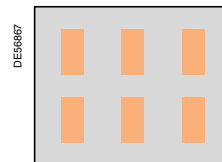
The basic circuit breaker is equipped with drilled copper connection terminals, at the top and bottom of the breaking units. The connectors are fitted to the terminals using the corresponding bolts. Several variants are possible.

Fixed connectors

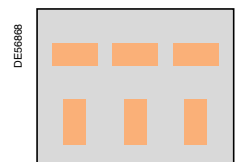
Horizontal connectors (H)



Vertical connectors (V)



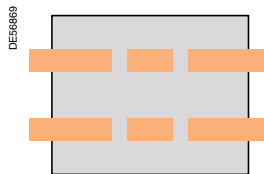
Mixed connectors



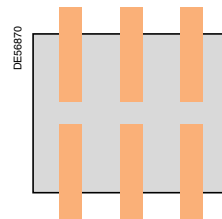
An adjustable connector enables the vertical distance to be increased to enable rotation of 90°.

Adjustable gap connectors

Extendable connectors horizontal (H)



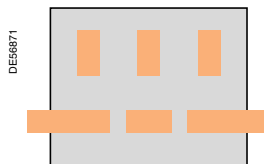
Extendable connectors vertical (V)



An adjustable connector enables the connection distance to be increased from 0 to 25 mm.

Mixed solution

Example



Comment:

The insulation withstand values given in the performance table, do not take account of the connectors.

With these connectors it is possible to use unplated or tin-plated copper conductors or tin-plated aluminium conductors, without any specific precautions being required.

The shape and dimensions of these conductors must be determined by the panel builder according to the dielectric withstand and temperature rise characteristics of the whole connection system.

Typical examples are provided in the Installation Guide.