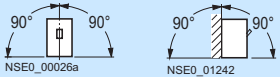


Technical specifications

Type		3VF2	
Standards		IEC 60947, EN 60947	
Max. rated current I_n		A	16 ... 100
Rated insulation voltage U_i			
Main current paths	V AC	415	
Control circuits	V AC	415	
Rated impulse withstand voltage U_{imp}			
Main current paths	kV	6	
Control circuits	kV	4	
Rated operational voltage U_e , 50/60 Hz			
IEC	V AC	Up to 415	
Permissible ambient temperature		°C	-20 ... +70
Permissible load			
At various ambient temperatures close to the circuit breaker, related to the rated current of the circuit breaker			Up to 100 A
– Circuit breakers	At 40 °C %		100
for system protection	50 °C %		92
	55 °C %		87
	60 °C %		83
	70 °C %		73
Rated short-circuit breaking capacity		Switching capacity class	A
Rated ultimate short-circuit breaking capacity I_{cu}	Up to 240 V	kA	65
	Up to 415 V	kA	18
Rated service short-circuit breaking capacity I_{cs}	Up to 240 V	kA	33
	Up to 415 V	kA	9
Rated short-circuit making capacity I_{cm}	Up to 240 V	kA	143
	Up to 415 V	kA	36
Main control switch properties			Yes
according to IEC 60947-2			
In conjunction with lockable rotary operating mechanisms			
EMERGENCY-STOP switch properties			Yes
according to DIN VDE 0113			
Mechanical endurance		Operating cycles	10000
Switching frequency		1/h	120
Conductor cross-sections and connection types for main conductors (copper or aluminum)			
Connection type Solid or stranded	Up to 40 A	mm ²	Circular conductor terminal
	45 ... 100 A	mm ²	2.5 ... 6
		mm ²	16 ... 50
	125 A	mm ²	70
Conductor cross-sections for control circuits			
with terminal connection or terminal strip, solid		mm ²	0.5 to 2.5
Power loss per circuit breaker			
At max. rated current I_n			
with AC symmetrical load			
– System protection	W	16	
Permissible mounting position			
Auxiliary switch			
Rated thermal current I_{th}		A	6
Rated making capacity		A	15
AC (AC-15)			
– Rated operational voltage	V	240	
– Rated operational current	A	6	
DC current (DC-13)			
– Rated operational voltage	V	125	
– Rated operational current	A	0.5	
Back-up fuse	A	4	
Trip unit			
Shunt trip unit (f-release)			
Response voltage			
– Pick-up (circuit breaker is tripped)			
Power consumption (short time) at:			
50/60 Hz 12 ... 24 V AC	VA	108	
50/60 Hz 48 ... 60 V AC	VA	120	
50/60 Hz 48 ... 127 V AC	VA	162	
12 ... 24 V DC	W	14.4	
48 ... 60 V DC	W	19.2	
110 ... 125 V DC	W	38.4	
220 ... 250 V DC	W	44	
Max. duration of operational voltage			Interrupts automatically
Max. opening time	ms	50	