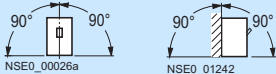


Technical specifications

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	... 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 acc. to IEC 60947-2			Yes	
In conjunction with lockable rotary operating mechanisms				
EMERGENCY-STOP switch properties			Yes	
acc. 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			Circular conductor terminal	
Solid or stranded		up to 40 A	mm ²	2.5 ... 6
		45 ... 100 A	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 3-phase symmetrical load				
– system protection		W	16	
Permissible mounting position				
Auxiliary switches				
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 units				
Shunt trip unit (f-release)				
Response voltage				
– pick-up (circuit breaker is tripped)				
Power consumption (short time) at:				
AC 50/60 Hz 12–24 V		VA	108	
AC 50/60 Hz 48–60 V		VA	120	
AC 50/60 Hz 48–127 V		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	