



## Miniature circuit breaker (MCB), 13A, 2 p, type B characteristic, DC

**Part no.** FAZ-B13/2-DC  
**Catalog No.** 176080

Similar to illustration

## Delivery program

Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			B
Application			Switchgear for DC applications
Rated current	$I_n$	A	13
Rated switching capacity acc. to IEC/EN 60947-2		kA	10
Product range			FAZ-DC

## Technical data

### Electrical

Rated switching capacity acc. to IEC/EN 60947-2		kA	10
---	--	----	----

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	13
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	5.3
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature max.		°C	-40
Operating ambient temperature max.		°C	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.			

10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 6.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)		
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])		
Release characteristic		B
Number of poles (total)		2
Number of protected poles		2
Nominal rated current	A	13
Nominal rated voltage	V	500
Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V	kA	10
Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 400 V	kA	10
Voltage type		DC
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		No
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		2
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20