# **DATASHEET - FAZ-C10/2-DC**



Miniature circuit breaker (MCB), 10 A, 2p, characteristic: C, DC

Powering Business Worldwide

FAZ-C10/2-DC Part no. Catalog No. 279138 Alternate Catalog FAZ-C10/2-DC

**EL-Nummer** 1691504

(Norway)

Similar to illustration

Delivery program		
Basic function		Miniature circuit-breakers
Number of poles		2 pole
Tripping characteristic		C
Application		Switchgear for DC applications

10 Rated current  $I_n$ Α Rated switching capacity acc. to IEC/EN 60947-2 kΑ 10

FAZ-DC Product range

**Technical data** 

Electrical

Standards			EN 45545-2; IEC 61373
Rated operational voltage	U <sub>e</sub>	V	
		V DC	250 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	10
Characteristic			С
Max. back-up fuse		A gL/gG	100
Selectivity Class			3
lifespan			
Lifespan	Operations		> 10000
Direction of incoming supply			Polarity dependent

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mm	45
mm	80
mm	17.5
	IEC/EN 60715 top-hat rail
	IP20, IP40 (when fitted)
	Twin-purpose terminals
	Finger and back-of-hand proof to BGV A2
$\text{mm}^2$	
$\mathrm{mm}^2$	1 x 25
mm <sup>2</sup>	2 x 10
mm	0.8 2
	As required
	mm mm² mm² mm²

## **Design verification as per IEC/EN 61439**

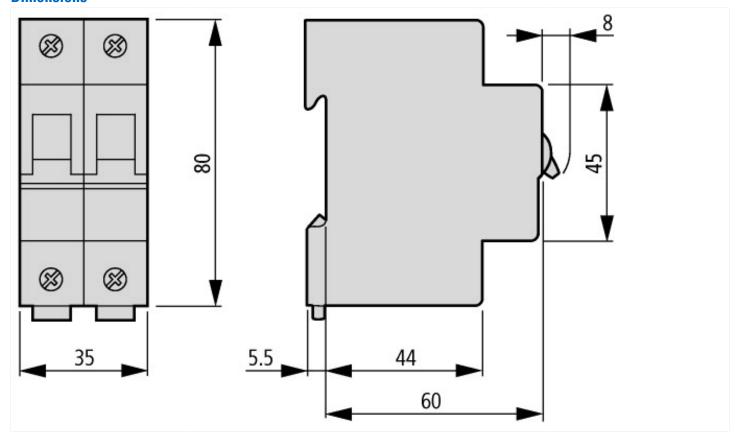
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Technical data for design verification				
Rated operational current for specified heat dissipation	In	Α	10	
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	0	
Equipment heat dissipation, current-dependent	$P_{\text{vid}}$	W	3	
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0	
Heat dissipation capacity	P <sub>diss</sub>	W	0	
Operating ambient temperature min.		°C	-40	

Operating ambient temperature max.	°C	75
		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

# **Technical data ETIM 7.0**

Electric engineering, automation, process control engineering / Electrical installation, device / Ministruer circuit breaker (MCB) (ec/08/s10.1-27-14-19-01 (AAB905014))  Release characteristic  Number of poles (total)  Number of poles (total)  Number of poles (total)  Number of poles (total)  Number of protected poles  Rated current  Rated voltage  Rated voltage  Rated insulation voltage Uinp  Rated insulation voltage Uinp  Rated insulation voltage Uinp  Rated short-circuit breaking capacity Ion EN 60898 at 230 V  Rated short-circuit breaking capacity Ion EN 60898 at 400 V  R	recinical data Ethii 7.0				
Release characteristic	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)				
Number of poles (total)         2           Number of protected poles         4         10           Rated current         A         10           Rated insulation voltage UI         V         250           Rated insulation voltage UI         V         440           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         0           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Voltage type         DC         DC           Current Iimiting class         3         No           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         Y         2           Over voltage category         Y         2           Pollution degree         Y         2           Width in number of modular spacings         Y         Y           Built-in depth	Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])				
Number of protected poles         2           Rated current         A         10           Rated voltage         V         250           Rated insulation voltage Ui         V         440           Rated impulse withstand voltage Uimp         kV         4           Rated short-circuit breaking capacity Ion EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Ion EN 60898 at 400 V         kA         10           Rated short-circuit breaking capacity Iou IEC 60947-2 at 230 V         kA         10           Rated short-circuit breaking capacity Iou IEC 60947-2 at 400 V         kA         10           Voltage type         DC         DC           Frequency         By 50 -60         No           Current limiting class         No         No           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         No         No           Over voltage category         No         No           Pollution degree         Yes         Yes           Built-in depth         Pollution degree         Yes           Built-in depth         Pollution degree         Yes           Built-in depth         Pollution degree         Yes	Release characteristic		С		
Rated current         A         10           Rated voltage         V         250           Rated insulation voltage Ui         V         440           Rated impulse withstand voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn EN 60898 at 400 V         kA         0           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Voltage type         BA         10           Current limiting class         So -60           Suitable for flush-mounted installation         No           Concurrently switching N-neutral         No           Over voltage category         3           Pollution degree         2         2           Additional equipment possible         Yes           Width in number of modular spacings         mm         70.5           Built-in depth         mm         70.5           Degree of protection (IP)         Pi20           Ambient temperature during operating         "C         25-75           Connectable conductor cross section multi-wired	Number of poles (total)		2		
Rated voltage         V         250           Rated insulation voltage Ui         V         440           Rated impulse withstand voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn EN 60898 at 400 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Voltage type         DC         C           Frequency         Hz         50 - 60           Current limiting class         3         3           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         No         No           Over voltage category         3         3           Pollution degree         Yes         Yes           Additional equipment possible         Yes           Width in number of modular spacings         mm         70.5           Built-in depth         mm         70.5           Degree of protection (IP)         mm         70.5           Ambient temperature during operating         25.75	Number of protected poles		2		
Rated insulation voltage Ui         V         440           Rated insulation voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn EN 60898 at 400 V         kA         0           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Voltage type         LD         CC           Frequency         LB         30 - 60           Current limiting class         3         3           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         No         No           Over voltage category         LP         2         2           Pollution degree         LP         2         2           Additional equipment possible         Yes         2           Width in number of modular spacings         mm         70.5           Built-in depth         PR         70.5           Degree of protection (IP)         PR         72.5           Ambient temperature during operating         "C         25.75           Conn	Rated current	Α	10		
Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Voltage type  Frequency  Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in degth Degree of protection (IP) Ambient temperature during operating Concurrents unit over a conductor cross section multi-wired  May  Pollution degree Pipol	Rated voltage	V	250		
Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn EN 60898 at 400 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         10           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         10           Voltage type         DC         DC           Frequency         Hz         50 - 60           Current limiting class         3         No           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         No         No           Over voltage category         2         3           Pollution degree         2         2           Additional equipment possible         Yes           Width in number of modular spacings         2         Yes           Built-in depth         mm         70.5           Degree of protection (IP)         IP20           Ambient temperature during operating         °C         -25 - 75           Connectable conductor cross section multi-wired         mm²         1 - 25	Rated insulation voltage Ui	V	440		
Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Prequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired    KA   10     10	Rated impulse withstand voltage Uimp	kV	4		
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  CUrrent limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired  kA  10  10  10  10  10  10  10  10  10  1	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0		
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Voltage type  DC  Frequency  Hz  50 - 60  Current limiting class  Suitable for flush-mounted installation  Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Ma  DC  DC  DC  DC  DC  DC  DC  DC  DC  D	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0		
Voltage type  Frequency  Current limiting class Suitable for flush-mounted installation  Concurrently switching N-neutral  Over voltage category  Pollution degree Additional equipment possible Width in number of modular spacings  Built-in depth Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  DC  DC  DC  DC  DC  DC  DC  DC  DC  D	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	10		
Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired  Hz 50 - 60  No  No  No  Ves  2  4  7  7  7  7  7  8  7  8  7  8  7  8  7  8  7  8  7  8  8	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	10		
Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired  3  No  No  No  2  4  7  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  8	Voltage type		DC		
Suitable for flush-mounted installation  Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  No  No  No  Pollution  Yes  2  Pollution  Pol.  Pol.	Frequency	Hz	50 - 60		
Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  No  No  1  2  2  4  7  7  8  Pollution degree  Yes  2  1  1  1  1  1  1  1  1  1  1  1  1	Current limiting class		3		
Over voltage category Over voltage category  Pollution degree Additional equipment possible Width in number of modular spacings  Built-in depth Degree of protection (IP) Ambient temperature during operating  Connectable conductor cross section multi-wired  3  Yes  Yes  70.5  IP20  IP20  Ambient temperature during operating  C -25 - 75  Connectable conductor cross section multi-wired  mm² 1 - 25	Suitable for flush-mounted installation		No		
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 -75 Connectable conductor cross section multi-wired mm² 1 - 25	Concurrently switching N-neutral		No		
Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Yes  70.5  P20  P20  1-25-75	Over voltage category		3		
Width in number of modular spacings 2  Built-in depth mm 70.5  Degree of protection (IP) IP20  Ambient temperature during operating °C -25 - 75  Connectable conductor cross section multi-wired mm² 1 - 25	Pollution degree		2		
Built-in depth mm 70.5  Degree of protection (IP) IP20  Ambient temperature during operating °C -25 - 75  Connectable conductor cross section multi-wired mm² 1 - 25	Additional equipment possible		Yes		
Degree of protection (IP)  Ambient temperature during operating  °C -25 - 75  Connectable conductor cross section multi-wired  mm² 1 - 25	Width in number of modular spacings		2		
Ambient temperature during operating °C -25 - 75  Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth	mm	70.5		
Connectable conductor cross section multi-wired mm <sup>2</sup> 1 - 25	Degree of protection (IP)		IP20		
	Ambient temperature during operating	°C	-25 - 75		
Connectable conductor cross section solid-core mm <sup>2</sup> 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25		
	Connectable conductor cross section solid-core	mm²	1 - 25		

# **Dimensions**



# **Additional product information (links)**

Temperature dependency, derating

 $https://www.eaton.com/content/dam/eaton/technical documentation/technical-data-tables/Derating\ table\ FAZ.pdf$