DATASHEET - FAZ-D15/4



Miniature circuit breaker (MCB), 15A, 4p, type D characteristic



Part no.	FAZ-D15/4
Catalog No.	279083
Alternate Catalog	FAZ-D15/4
No.	
EL-Nummer	0001691241
(Norway)	
=	

Similar to illustration

Delivery program

Number of poles Product of poles <th>Basic function</th> <th></th> <th></th> <th>Miniature circuit-breakers</th>	Basic function			Miniature circuit-breakers
Application Mode Switchgear for industrial and advanced commercial applications Rated current In A 15 Rated switching capacity acc. to IEC/EN 60947-2 Icu KA 15	Number of poles			4 pole
Rated switching capacity acc. to IEC/EN 60947-2 In A 15	Tripping characteristic			D
Rated switching capacity acc. to IEC/EN 60947-2 I _{cu} kA 15	Application			Switchgear for industrial and advanced commercial applications
	Rated current	In	А	15
Product range	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Flouder lange FAZ	Product range			FAZ

Technical data

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

l _{cu}	kA	15

Design verification as per IEC/EN 61439

Fechnical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	15
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	8.4
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	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
C/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.

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 7.0

Release characteristic Image: Constraint of the second			
iceldsstüct 1-27-14-19-01 (ABB090014) I Reles characteristic I Number of poles (total) 4 Number of poles (total) I Reled variants I <tr< td=""><td>Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042</td><td>)</td><td></td></tr<>	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)	
Number of protected poles Image: second	Electric engineering, automation, process control engineering / Electrical installati (ecl@ss10.0.1-27-14-19-01 [AAB905014])	on, device / Miniatu	ature circuit breaker system (MCB) / Miniature circuit breaker (MCB)
Number of protected polesImage: state of the	Release characteristic		D
Rated current A A Rated voltage V 40 Rated insulation voltage Uin V 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 V K 40 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EC 60947-2 at 200 V KA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 15 Voltage type KA 15 Voltage type KA 10 Frequery KA 10 Suitable for flush-mounted installation KA 10 Our orting category KA 10 Pollvion degree KA 10 Additional quipment possible KA 10 Mathin number of modular spacings KA 10 Mathin tumper at uring operating KA </td <td>Number of poles (total)</td> <td></td> <td>4</td>	Number of poles (total)		4
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Rated insulation voltage Uimp V A Rated insulation voltage Uimp V A Rated insulation voltage Uimp KV A Rated insulation voltage Uimp KV A Rated insulation voltage Uimp KV B Rated short-circuit breaking capacity Ice N60898 at 230 V KA D Rated short-circuit breaking capacity Ice C60947-2 at 230 V KA D Notage type KA D Voltage type KA D Voltage type KA D Current limiting class So GO So GO Suitable for flush-mounted installation KA D Our voltage category KA So GO Pollution degree KA So GO Additional equipment possible KA So GO With in number of modular spacings KA So GO Built-in depth K So GO So GO Degree of protection (IP) K So GO So GO Arbient temperature during operating K So So So So So So So So So	Rated current	А	A 15
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Rated short-circuit breaking capacity lcu IEC 60947-2 at 230 V kA 5 Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V kA 5 Voltage type C C Frequency CH C C Current limiting class S 60 C C Suitable for flush-mounted installation F S No C <t< td=""><td>Rated short-circuit breaking capacity Icn EN 60898 at 230 V</td><td>kA</td><td>A 10</td></t<>	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	A 10
Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V KA 5 Voltage type C C Frequency Frequency 50-60 Current limiting class S S Suitable for flush-mounted installation No S Concurrently switching N-neutral Mo S Pollution degree S S S Additional equipment possible S S S Built-in depth Mo S S S Degree of protection (IP) Core S	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	KA 10
Voltage type AC Frequency 50-60 Current limiting class 50-60 Suitable for flush-mounted installation 50-60 Concurrently switching N-neutral 60 Concurrently switching N-neutral 60 Over voltage category 60 Pollution degree 70 Additional equipment possible 60 Witch in number of modular spacings 60 Built-in depth 705 Degree of protection (IP) 60 Ambient temperature during operating 60 Concectable conductor cross section multi-wired mm	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	KA 15
Frequency Hz 50-60 Current limiting class 3 Suitable for flush-mounted installation Mo Concurrently switching N-neutral No Over voltage category Sinte March Pollution degree Sinte March Additional equipment possible March With in number of modular spacings March Built-in depth Mo Degree of protection (IP) Mo Ambient temperature during operating Cor Mitter temperature during operating Cor Mitter temperature during operating Cor Mitter temperature during operating March Mitter temperature during operating March Mitter temperature during operating March	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	A 15
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Suitable for flush-mounted installation Mo Soncurrently switching N-neutral Mo Over voltage category Mo Pollution degree J Additional equipment possible Mo Width in number of modular spacings Mo Buit-in depth Mo Degree of protection (IP) Mo Ambient temperature during operating Mo Solution degree Mo Mo Mo Mo<	Frequency	Hz	Hz 50 - 60
Concurrently switching N-neutral Mo Over voltage category S Pollution degree S Additional equipment possible S Width in number of modular spacings Mo Built-in depth Mo Degree of protection (IP) Mo Anbient temperature during operating C S Concurrently service C S Mo ma ^o S Aubient temperature during operating C S Mo ma ^o S Mo S <	Current limiting class		3
Normalized category 3 Pollution degree 3 Additional equipment possible 5 With in number of modular spacings 6 Built-in depth 7 Degree of protection (IP) 6 Ambient temperature during operating 6 Connectable conductor cross section multi-wired 6	Suitable for flush-mounted installation		No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings Mm Built-in depth mm Degree of protection (IP) Yes Ambient temperature during operating C Sunctable conductor cross section multi-wired mm ² Image: Poly operating Poly operating Poly operati	Concurrently switching N-neutral		No
Additional equipment possible Yes Width in number of modular spacings Model Built-in depth Model Degree of protection (IP) Model Ambient temperature during operating C 25 75 Connectable conductor cross section multi-wired mm ² 125	Over voltage category		3
Width in number of modular spacingsMathematical Science Scien	Pollution degree		2
Built-in depth mm 70.5 Degree of protection (IP) P20 Ambient temperature during operating C 25.75 Connectable conductor cross section multi-wired mm ² 1.25	Additional equipment possible		Yes
Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1-25	Width in number of modular spacings		4
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm ² 1 - 25	Built-in depth	mm	nm 70.5
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)		IP20
	Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	mm ²	nm ² 1 - 25
	Connectable conductor cross section solid-core	mm²	nm ² 1 - 25

Additional product information (links)

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Temperature dependency, derating	https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table
	FA7 ndf