DATASHEET - FAZ-Z40/4



Miniature circuit breaker (MCB), 40A, 4p, Z-Char, AC



Part no.FAZ-Z40/4Catalog No.279119Eaton Catalog No.FAZ-Z40/4EL-Nummer0001695306(Norway)

Similar to illustration

Technical data

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Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	Ue	V	
	Ue	V AC	240/415
		V DC	60 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Operational switching capacity		kA	7.5
Characteristic			B, C, D, K, S, Z
Max. back-up fuse		A gL/gG	125
Selectivity Class			3
lifespan			
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	80
Mounting width per pole		mm	17.5
Mounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Finger and back-of-hand proof to BGV A2
Terminal capacities		mm ²	
		mm ²	1 x 25
		mm ²	2 x 10
Thickness of busbar material		mm	0.8 2
Mounting position			As required

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	13.4
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
IEC/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.

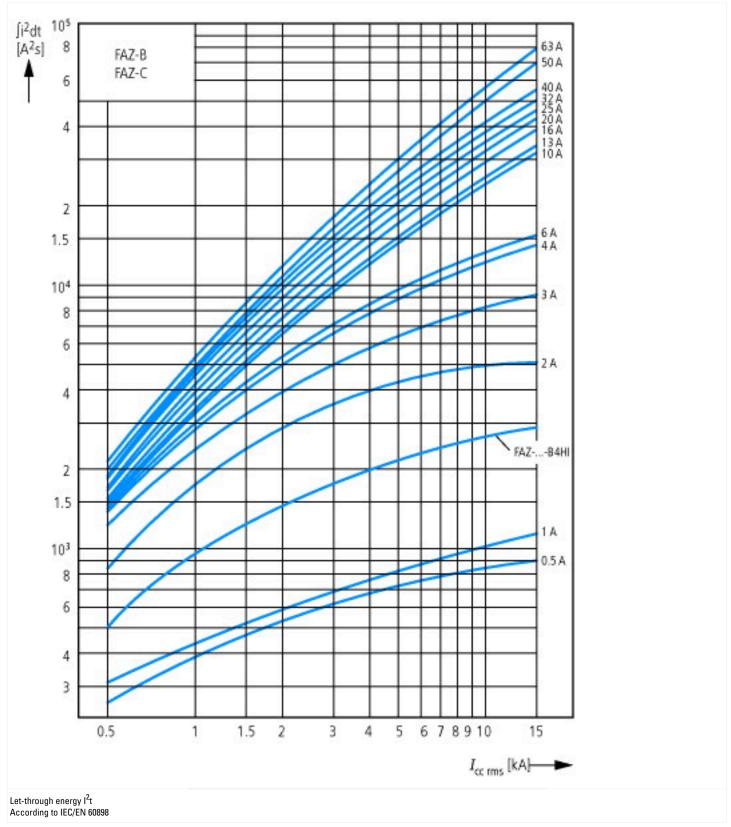
Technical data ETIM 7.0

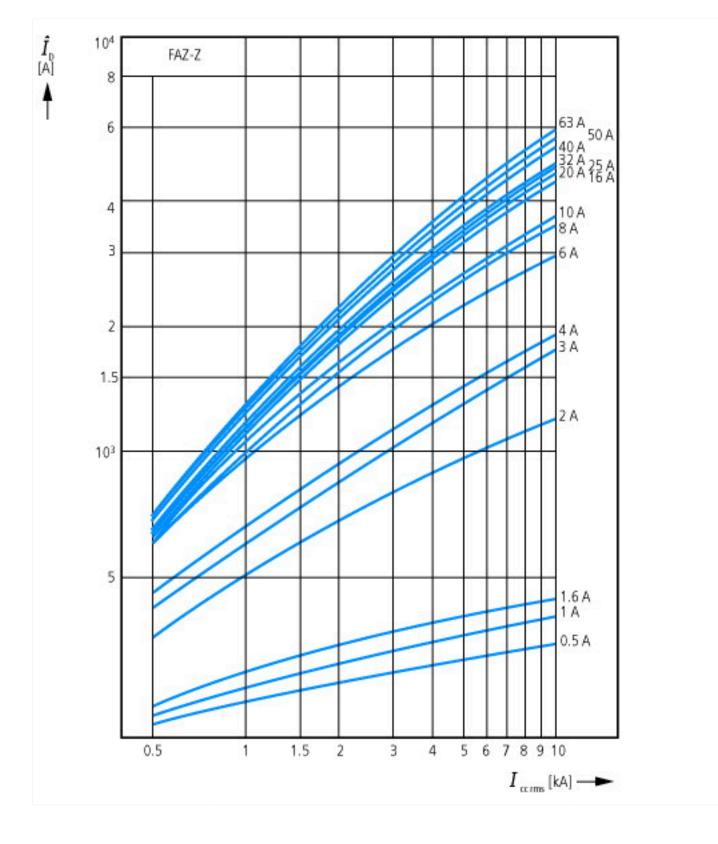
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

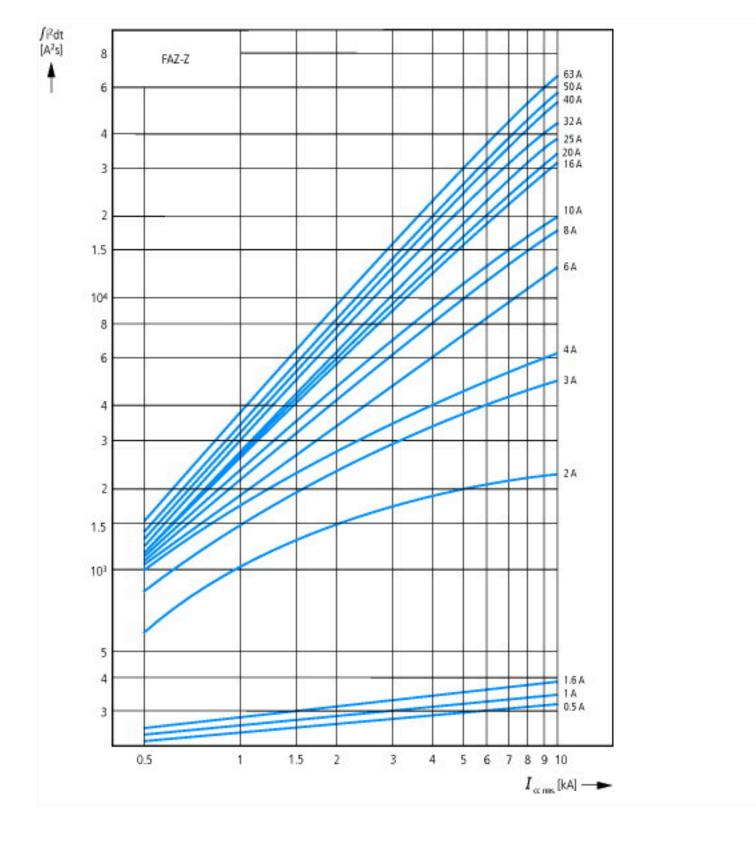
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Number of poles (total)Image: section of the section of	(eci@5510.0.1-27-14-15-01 [AAD505014])		
Number of protected polesImage: state of the	Release characteristic		Z
Rated current A A Rated vortage V 40 Rated insulation voltage Uin V 40 Rated insulation voltage Uinp V 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 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 200 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V KA 0 Voltage type KA 0 Voltage type KA 0 Voltage type KA 0 Voltage type KA 0 Current limiting class S 0 Suitable for flush-mounted installation KA 0 Our voltage category S 0 Pollution degree KA 0 Additional equipment possible KA 0 With in number of modular spacings KA 0 Built-in depth KA 0 Degree of protection (IP) KA 0 Ahbient temperature during operating KA 0 Concretable conductor cross section multi-wired KA 0	Number of poles (total)		4
Rade voltage V 40 Rade voltage Ui V 40 Rated insulation voltage Uimp V 40 Rated short-circuit breaking capacity Lon EN 60989 at 230 V KA 0 Rated short-circuit breaking capacity Lon EN 60989 at 200 V KA 0 Rated short-circuit breaking capacity Lon EC 60947-2 at 200 V KA 0 Voltage type KA 0 0 Voltage type KA 0 0 Voltage type KA 0 0 Suitable for flush-mounted installation KA 0 0 Concurrently switching N-neutral KA 0 0 Not wortsage category KA 0 0 Pollution degree KA 0 0 0 Midtin number of modular spacings KA 0 0 0 Built-in depth KA 0 0 0 0 Built-in depth KA KA 0 0 0 0 0 0 0 0 <td>Number of protected poles</td> <td></td> <td>4</td>	Number of protected poles		4
Rated insulation voltage Ui V 40 Rated insulation voltage Uinp V 40 Rated insulation voltage Uinp V 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 V KA 0 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Icn EC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity Icn EC 60947-2 at 400 V KA 0 Voltage type KA 0 Voltage type KA 0 Concurrent withing class KA 0 Suitable for flush-mounted installation KA 0 Concurrent withing N-neutral KA 0 Over voltage category KA 0 Pollution degree KA 0 Additional equipment possible KA 0 With in number of modular spacings KA 0 Built-in depth MA 0 Dagree of protection (IP) KA KA Anbient temperature during operating KA 12 Anbient temperature during operating KA 12	Rated current	А	40
Rated impulse withs and voltage Uimp KV 4 Rated short-circuit breaking capacity Len EN 60898 at 200 V KA 0 Rated short-circuit breaking capacity Len EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Len EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Len EG 60947-2 at 200 V KA 0 Notage type C C C Frequency KA 0 C Suitable for flush-mounted installation KA So 60 C Concurrently switching N-neutral KA So 60 C So 60 Notage category KA So 60 C So 60 Notage category KA So 60 So 60 So 60 Notage category KA So 60 So 60 So 60 Notage category KA So 60 So 60 So 60 Notage category KA So 60 So	Rated voltage	V	400
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 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V KA 0 Voltage type C C C Frequency KA 0 0 Current limiting class KA 0 0 Suitable for flush-mounted installation KA 0 0 Concurrently switching N-neutral KA 0 0 Voltage type Feq So 60 0 0 Pollution degree KA 0	Rated insulation voltage Ui	V	440
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Notage type KA 0 Voltage type KA 0 Frequency KA 0 Current limiting class Ferguency 0 Suitable for flush-mounted installation Ferguency 0 Concurrently switching N-neutral Ferguency 0 Over voltage category Ferguency 0 Pollution degree Ferguency 0 Additional equipment possible Ferguency Suitain depth Buil-in depth Ferguency Ferguency 10 Additional equipment possible Ferguency Ferguency 10 Buil-in depth Ferguency Ferguency 10 Additional equipment possible Ferguency Ferguency 10 Buil-in depth Ferguency Ferguency 10 Additional equipment possible Ferguency Ferguency 10 Buil-in depth Ferguency Ferguency 10 Abient temperatu	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity lou IEC 60947-2 at 200 V KA 0 Rated short-circuit breaking capacity lou IEC 60947-2 at 400 V KA 0 Voltage type C C Frequency KA 0-0 Current limiting class S 0-0 Suitable for flush-mounted installation F G Concurrently switching N-neutral F G Over voltage category S S Pollution degree F G Additional equipment possible F G Buil-in depth F G Degree of protection (IP) F G Ambient temperature during operating C S Anbient temperature during operating C S Rome C S S Rome S S S Rome C S S S Rome C S S S Rome S S S S S Rome S S S S S S <td>Rated short-circuit breaking capacity Icn EN 60898 at 230 V</td> <td>kA</td> <td>0</td>	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V KA 0 Voltage type C C Frequency KA 50-60 Current limiting class S S Suitable for flush-mounted installation M S Concurrently switching N-neutral M S Over voltage category S S Pollution degree S S Additional equipment possible M S With in number of modular spacings M M Built-in depth Mm 7.5 Anbient temperature during operating ° S Anbient temperature during operating ° S Mole conductor cross section multi-wired mm ² 12.5	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
Voltage type AC Frequency Hz 50-60 Current limiting class 3 3 Suitable for flush-mounted installation Main No Concurrently switching N-neutral Main Yes Over voltage category Yes 3 Pollution degree Yes Yes Addtional equipment possible Yes Yes With in number of modular spacings Main Yes Built-in depth Main Yes Degree of protection (IP) Main Yes Ambient temperature during operating Yes Yes Aubient temperature during operating Yes Yes Aubient temperature during operating Yes Yes Aubient temperature during operating Yes Yes	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	10
Frequency Hz 5 - 60 Current limiting class 5 - 60 Suitable for flush-mounted installation 5 3 Concurrently switching N-neutral Main No Over voltage category 5 3 Pollution degree 3 3 Additional equipment possible Main Yes With in number of modular spacings Mm 70 Built-in depth mm 70.5 Anbient temperature during operating °C 32.75 Anbient temperature during operating mm 1.25	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	10
Current limiting class 3 Suitable for flush-mounted installation Mo Concurrently switching N-neutral Yes Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings mm Degree of protection (IP) mm Anbient temperature during operating °C Mo Size Size Size Size Size Size Size Size	Voltage type		AC
Suitable for flush-mounted installation Image: Solution flush-mounted installation No Concurrently switching N-neutral Yes 3 Over voltage category Image: Solution degree Solution degree Additional equipment possible Yes Solution With in number of modular spacings Image: Solution flush-mounted installation Yes Degree of protection (IP) Image: Solution flush-mounted flush-mount	Frequency	Hz	50 - 60
Concurrently switching N-neutral Page P Yes Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Witch in number of modular spacings Mmm Built-in depth Mmm Degree of protection (IP) Yes Ambient temperature during operating C Some category Some category	Current limiting class		3
Over voltage category 3 Pollution degree 3 Additional equipment possible 6 6 Width in number of modular spacings 6 6 Built-in depth 70.5 12000000000000000000000000000000000000	Suitable for flush-mounted installation		No
Pollution degree2Additional equipment possibleYesWidth in number of modular spacingsmmBuilt-in depthmmDegree of protection (IP)105Ambient temperature during operating°CSconectable conductor cross section multi-wiredmm²125	Concurrently switching N-neutral		Yes
Additional equipment possible Meditional equipment possible Yes Width in number of modular spacings Meditional Meditional Built-in depth me 7.5 Degree of protection (IP) C 25 75 Ambient temperature during operating me ² 125	Over voltage category		3
Width in number of modular spacings Median Built-in depth mm Degree of protection (IP) Median Ambient temperature during operating C 25 - 75 Connectable conductor cross section multi-wired mm ²	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 mm² 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	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	mm²	1 - 25
	Connectable conductor cross section solid-core	mm²	1 - 25

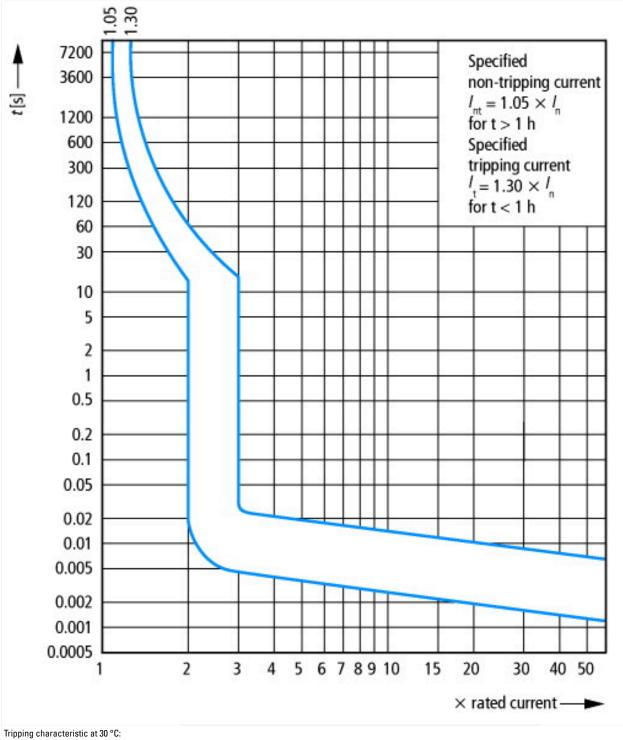
Characteristics











03/07/2019

Dimensions

