# **DATASHEET - FAZ-B6/1**



## Miniature circuit breaker (MCB), 6A, 1p, B-Char, AC

 Part no.
 FAZ-B6/1

 Catalog No.
 278529

 Eaton Catalog No.
 FAZ-B6/1

 EL-Nummer
 0001695100

(Norway)



Similar to illustration

### Technical data Electrical

	Liectrical			
	Standards			
Rated voltage according to UL         V DC         80 (per pole)           Rated switching capacity acc. to IE/EN 69947-2         ka         177           Rated switching capacity according to UL         ka         10 UL/0777           Max operational voltage according to IE/EN 69947-2 (max operational voltage)         lea         XA         10 UL/0777           Rated switching capacity according to IE/EN 69947-2 (max operational voltage)         lea         XA         10 UL/0777           Rated switching capacity according to IE/EN 69947-2 (max operational voltage)         lea         XA         10 UL/0777           Rated switching capacity according to IE/EN 699847-2 (max operational voltage)         lea         XA         10 UL/0779           Rated switching capacity according to IE/EN 699847-2 (max operational voltage)         lea         XA         24           Rated switching capacity according to IE/EN 69988-1         lea         XA         24           Operational Switching capacity according to IE/EN 69988-1         lea         XA         25           Characteristic         XA         25         XA           Characteristic         XA         25         XA           United space         XA         25         XA           Solucity Class         XA         25         XA           U	Rated operational voltage	U <sub>e</sub>	V	
Reted voltage according to UL         V_n         V AC         27           Brate switching capacity acc. to IEC/EN 60947-2         I <sub>CO</sub> KA         10 ULI (177)           Max operational voltage according to UL         VAC         24           Rated switching capacity according to IEC/EN 60947-2         I <sub>CO</sub> KA         10 ULI (177)           Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)         I <sub>CO</sub> XA         10           Rated service short-circuit breaking capacity according to IEC/EN 60984-1         I <sub>CO</sub> VAC         24           Rated switching capacity according to IEC/EN 60988-1         I <sub>CO</sub> VAC         24           Rated switching capacity according to IEC/EN 60988-1         I <sub>CO</sub> VAC         24           Characteristic         I <sub>CO</sub> X         15         X           Max: back-up fuse         X         X         25         X         X           Selectivity Class         X         X         25         X		U <sub>e</sub>	V AC	240/415
Rated switching capacity acc. to IEC/EN 60947-2         Ica         IAA         15           Max operational voltage according to IEC/EN 60947-2         VAC         24           Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)         Ica         XA         10           Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)         Ica         XA         10           Rated switching capacity according to IEC/EN 60987-1 (max operational voltage)         Ica         XA         40           Rated switching capacity according to IEC/EN 60988-1         Ica         XA         10           Rated switching capacity according to IEC/EN 60988-1         Ica         XA         10           Rated switching capacity according to IEC/EN 60988-1         Ica         XA         10           Dorrational switching capacity according to IEC/EN 60988-1         Ica         XA         15           Max. back-up fuse         Ica         XB         25         25           Solutionity Class         Ica         XB         25         25           Lifespan         Operational switching capacity         Ica         10000         20           Mountain         Image: Solutional switching capacity         Image: Solutional switching capacity         Image: Solutional switching capacity <td< td=""><td></td><td></td><td>V DC</td><td>60 (per pole)</td></td<>			V DC	60 (per pole)
Breaking capacity according to UL         kA         10 (UL1077)           Max operational voltage according to IEC/EN 60947-2 (max operational voltage)         VAC         254           Rated servicine abort-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)         I <sub>cs</sub> VAC         20           Rated voltage according to IEC/EN 60988-1         Un         VAC         240           Rated voltage according to IEC/EN 60988-1         Un         VAC         240           Rated service short-circuit breaking capacity according to IEC/EN 60988-1         I <sub>cs</sub> I <sub>cs</sub> V.         25           Rated service short-circuit breaking capacity according to IEC/EN 60988-1         I <sub>cs</sub> X.         15         5           Operational switching capacity         A gUg6         125         5         5           Max. back-up fuse         A gUg6         125         3         2           Iffespan         Operational switching capacity         Y.         A gUg6         125           Vibracian of incoming supply         Y         Y         Y         10000           Discassion of incoming supply         Y         Y         Y         10000         10000           Bicolosure leight         Y         Y         Y         Y         Y	Rated voltage according to UL	$U_{n}$	V AC	277
Max operational voltage according to IEC/EN 60947-2 (max operational voltage)         VAC         254           Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)         I <sub>sc</sub> X.A.         1.75 kA           Rated switching capacity according to IEC/EN 6098-1         Un         V.A.C.         240           Rated switching capacity according to IEC/EN 6098-1         I <sub>cn</sub> kA         1.0           Rated switching capacity according to IEC/EN 6098-1         I <sub>cn</sub> kA         1.0           Rated switching capacity according to IEC/EN 6098-1         I <sub>cn</sub> kA         7.5 kA           Operational switching capacity according to IEC/EN 6098-1         I <sub>cn</sub> kA         7.5 kA           Operational switching capacity according to IEC/EN 6098-1         I <sub>cn</sub> kB         7.5 kA           Observity Class         A gL/g         1.2         kB         C.0, K, S, Z           Max. back-up fuse         Secretify Class         a sequired         Secretify Class         a sequired           Idespan         Operations         y 10000         <	Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) Rated voltage according to IEC/EN 60898-1 Rated voltage according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60998-1 Rated service short-circuit breaking capacity according to IEC/EN 60998-1 Rated service short-circuit breaking capacity according to IEC/EN 60998-1 Rated service short-circuit breaking capacity according to IEC/EN 60998-1 Rated service short-circuit breaking capacity according to IEC/EN 60998-1 Rated service short-circuit breaking capacity according to IEC/EN 6098-1 Rated service short-circuit breaking capacity according to IEC/EN 6098-1 Rated service short-circuit breaking capacity according to IEC/EN 6098-1 Rated service short-circuit breaking capacity according to IEC/EN 6098-1 Rated service short-circuit brea	Breaking capacity according to UL		kA	10 (UL1077)
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Rated voltage according to IEC/EN 60888-1 Rated switching capacity according to IEC/EN 60888-1 Rated switching capacity according to IEC/EN 60888-1 Rated switching capacity according to IEC/EN 60888-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60895-1 Rated service short-circuit breaking capacity according to IEC/EN 60895-1 Rated service short-circuit breaking capacity according to IEC/EN 60895-1 Rated service short-circuit breaking capacity according to IEC/EN 608	Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cu</sub>	kA	10
Rated switching capacity according to IEC/EN 60898-1 lcs	Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cs</sub>		7,5 kA
Rated service short-circuit breaking capacity according to IEC/EN 60898-1   Ics   7.5 kA    Departional switching capacity   Ka   7.5 kA    Characteristic   Ka   7.5 kA    Max. back-up fuse   Ka   7.5 kA    Max. required   Max. required    Max. required   Max. required    Max. serious fusion of incoming suply   Max. required    Max. required   Max. required    Max. serious fusion of incoming suply    Max. serious fusion fusion of incoming suply    Max. serious fusion	Rated voltage according to IEC/EN 60898-1	$U_n$	V AC	240
Operational switching capacity         KA         7.5           Characteristic         B, C, D, K, S, Z           Max. back-up fuse         A gL/g6         125           Selectivity Class         3         3           lifespan         > 10000         10000           Direction of incoming supply         y 10000         10000           Mechanical         mm         45           Standard front dimension         mm         45           Enclosure height         mm         80           Mounting         mm         17.5           Mounting         EC/EN 60715 top-hat rail           Degree of Protection         mm         17.0           Terminal stop and bottom         mm         17.0         17.0           Terminal protection         mm²         1 kgrean and back-of-hand proof to BGV A2           Terminal capacities         mm²         1 x 25           mm²         1 x 25           mm²         2 x 10           Thickness of busbar material         mm²         8 mm²         8 mm²	Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	10
Characteristic  Max. back-up fuse Selectivity Class  lifespan  Lifespan  Operations  Operations  Tireminal protection  Terminal capacities  Thickness of busbar material  Max. back-up fuse  B, C, D, K, S, Z  B, C, D, K, S, C  B,	Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I <sub>cs</sub>		7,5 kA
Max. back-up fuse Selectivity Class Selectivity Class  Lifespan  Claspan  Operations  Tirection of incoming supply  Mounting Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities  Terminal capacities  Thickness of busbar material  Max. back-up fuse  A gL/g  3  3  3  3  3  3  3  4  4  5  5  6  6  7  7  7  7  7  7  7  7  7  7  7	Operational switching capacity		kA	7.5
Selectivity Class  Lifespan  Departions  Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  Thickness of busbar material  Degree of busar material  Mounting  Mounting  Degree of busbar material  Degree of busbar material  Degree of busbar material  Degree of busbar material	Characteristic			B, C, D, K, S, Z
Lifespan Operations > 10000  Lifespan Operations > 10000  Direction of incoming supply as required  Mechanical  Standard front dimension	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 10000 Direction of incoming supply as required  Wechanical  Standard front dimension	Selectivity Class			3
Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting  Degree of Protection  Terminal protection  Terminal capacities  mm²  Indicates of busbar material  mm 0.8 2  as required  as require require	lifespan			
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       mm²         mm²       1 x 25         mm²       2 x 10         Thickness of busbar material       mm       0.8 2	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5  Mounting Degree of Protection Iterminals top and bottom Terminal protection Iterminal capacities mm² 1x 25  Terminal capacities mm² 1x 25  Thickness of busbar material mm 0.8 2	Direction of incoming supply			as required
Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal capacities Terminal capacities Thickness of busbar material  mm  80  ITAS  IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals Tivin-purpose terminals Twin-purpose t	Mechanical			
Mounting width per pole  Mounting  Degree of Protection Terminals top and bottom Terminal protection  Terminal capacities  mm²  mm²  17.5  IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals Finger and back-of-hand proof to BGV A2  mm²  mm²  1 x 25  mm²  2 x 10  Thickness of busbar material  mm 0.8 2	Standard front dimension		mm	45
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 mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Enclosure height		mm	80
Degree of Protection  Terminals top and bottom  Terminal protection  Terminal capacities  Thickness of busbar material  Thickness of busbar material  Terminal capacities  Thickness of busbar material	Mounting width per pole		mm	17.5
Terminals top and bottom  Terminal protection  Terminal capacities  mm²  1 x 25  mm²  2 x 10  Thickness of busbar material  Terminals top and bottom  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Finger and back-of-hand proof to BGV A2  Finger and back-of-hand proof to BGV A2  Thickness of busbar material  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Twin-purpose terminals  Finger and back-of-hand proof to BGV A2  Fi	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2  Terminal capacities mm <sup>2</sup> 1 x 25  mm <sup>2</sup> 2 x 10  Thickness of busbar material mm 0.8 2	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm <sup>2</sup> 1 x 25 mm <sup>2</sup> 2 x 10  Thickness of busbar material mm 0.8 2	Terminals top and bottom			Twin-purpose terminals
$\frac{mm^2}{mm^2} = \frac{1 \times 25}{2 \times 10}$ Thickness of busbar material $\frac{mm}{m} = \frac{1 \times 25}{2 \times 10}$	Terminal protection			Finger and back-of-hand proof to BGV A2
Thickness of busbar material mm 0.8 2	Terminal capacities		mm <sup>2</sup>	
Thickness of busbar material mm 0.8 2			$\mathrm{mm}^2$	1 x 25
			mm <sup>2</sup>	2 x 10
Mounting position As required	Thickness of busbar material		mm	
	Mounting position			As required

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0

Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.8
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
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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
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) (lect/@ss10.01-27-14-19-01 [AAR005014])

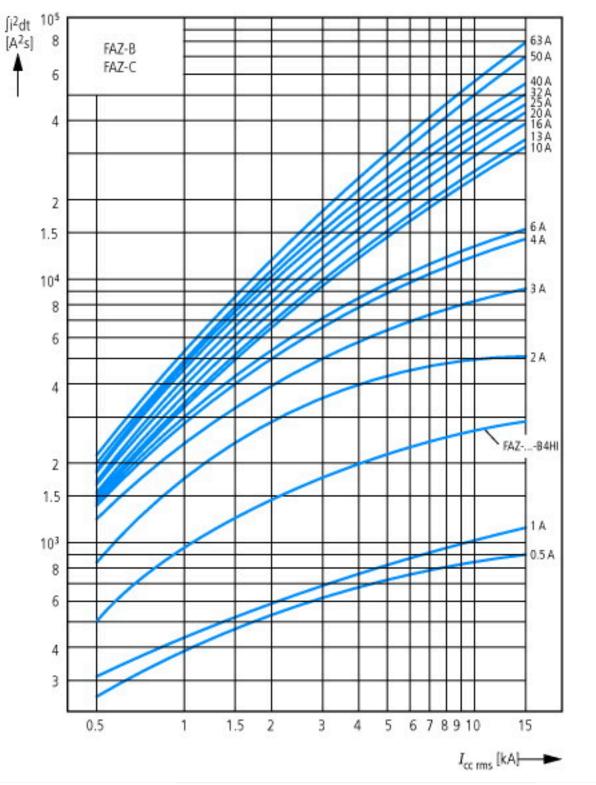
(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Release characteristic		В
Number of poles (total)		1
Number of protected poles		1
Rated current	Α	6
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
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	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3

Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
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
Connectable conductor cross section solid-core	mm²	1 - 25

# **Approvals**

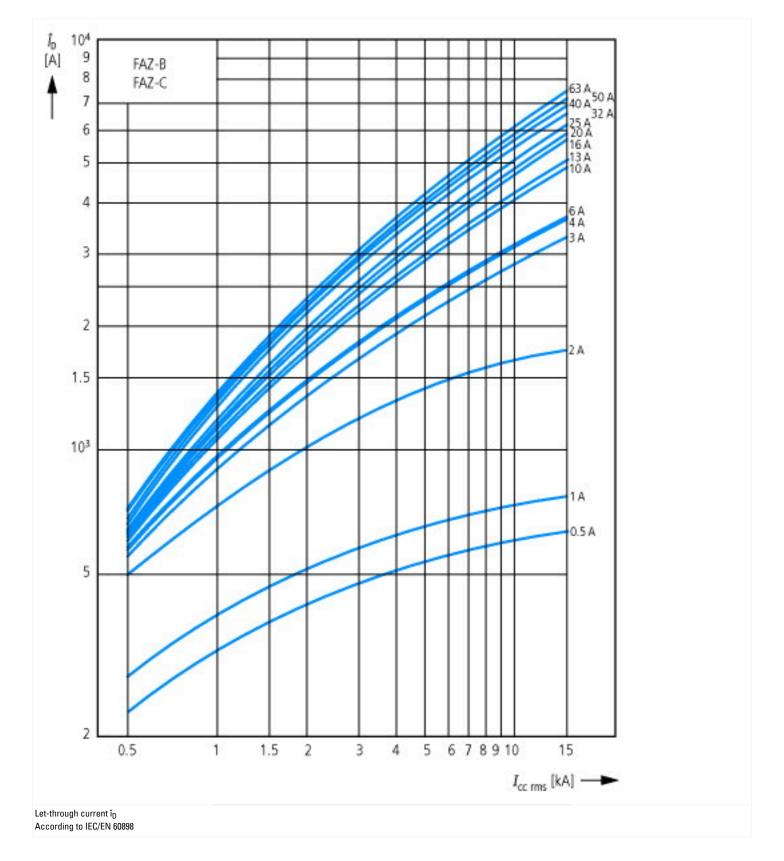
••	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	277 VAC; 48 VDC
Degree of Protection	IEC: IP20; UL/CSA Type: -

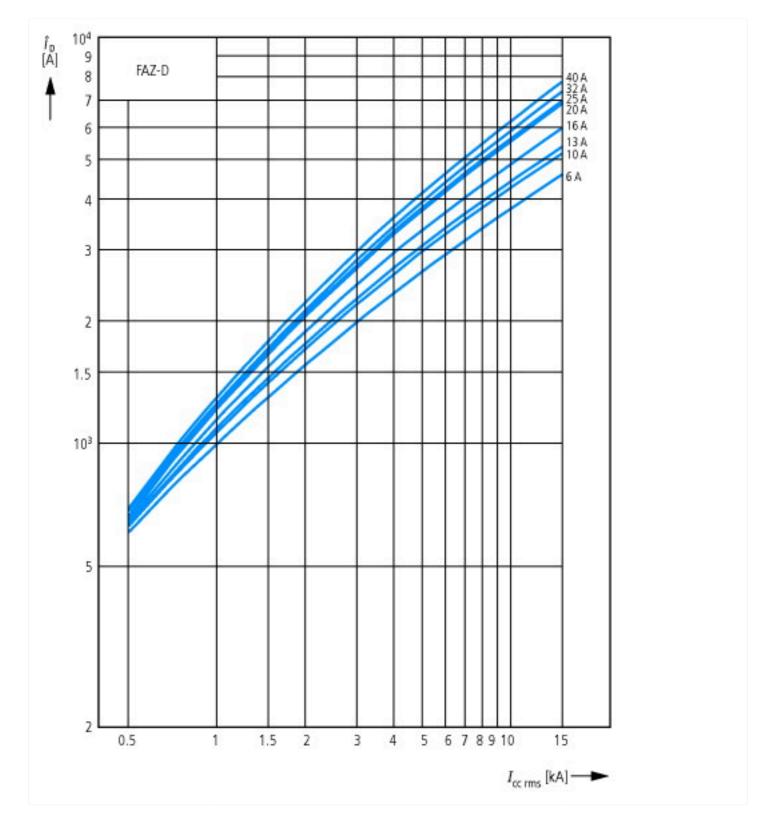
# **Characteristics**

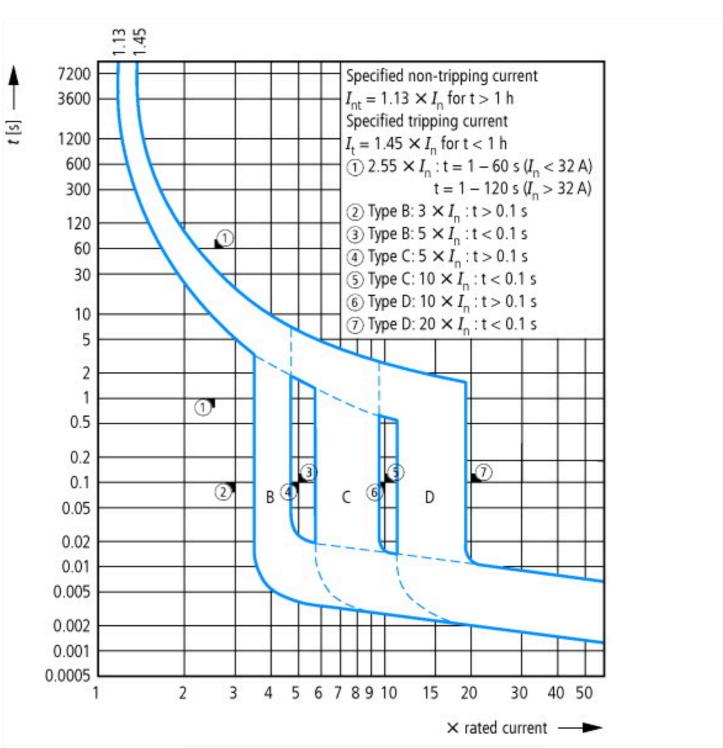


Let-through energy I<sup>2</sup>t According to IEC/EN 60898









# Dimensions 8 17.5 5.5 44 60