

Over current switch, 13A, 3Np, C-Char, AC

Part no. FAZ-C13/3N Article no. 278973 Catalog No. FAZ-C13/3N



Similar to illustration

<b>Delivery programme</b>
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Basic function			Miniature circuit breakers
Number of poles			3 pole+N
Tripping characteristic			С
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	13
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

# **Technical data**

#### **Electrical**

Standards         LEC/EN 60847 -2 LEC/EN 60847 -2 LEC/EN 60888           Rated operational voltage         Ue         V           Ue         VB         VAC         230/400           Rated switching capacity acc. to IEC/EN 60947 -2         kA         15           Operational switching capacity acc. to IEC/EN 60947 -2         kA         7.5           Characteristic         B, C, D         D           Max. back-up fuse         A gL/g6         125           Selectivity Class         3         3           Lifespan         Operations         > 10000           Direction of incoming supply         > 10000           Mechanical         mm         45           Standard front dimension         mm         45           Enclosure height         mm         80           Terminal protection         mm         80           Mounting width per pole         mm         17.5           Mounting width per pole         mm         17.5           Mounting and bottom         IEC/EN 60715 top-hat rail         IEC/EN 60715 top-hat rail           Terminal capacities         mm²         IEC/EN 60715 top-hat rail	Licotricui			
Rated switching capacity acc. to IEC/EN 60947-2  Rated switching capacity acc. to IEC/EN 60947-2  Operational switching capacity  Characteristic  Max. back-up fuse  Selectivity Class  Lifespan  Operations  Operations  Operations  Operations  Tirection of incoming supply  Mechanica  Standard front dimension  Enclosure height  Terminal protection  Mounting  Mounting  Mounting  Degree of Protection  Terminals top and bottom  Terminals top and bottom  Terminal capacities  Wax  V AC  A8 (per pole)  48 (per pole)  49 (p. 4)  40 (	Standards			
Rated switching capacity acc. to IEC/EN 60947-2  Rated switching capacity acc. to IEC/EN 60947-2  Characteristic  Max. back-up fuse  Selectivity Class  Lifespan  Operations  Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Terminal protection  Mounting width per pole  Mounting width per pole  Mounting  Degree of Protection  Terminals top and bottom  Terminals top and bottom  Terminal capacities  Wide acceptance  V DC  48 (per pole)  49 (per pole)  49 (per pole)  49 (per pole)  49 (per pole)  40 (per pole)  41 (per pole)  42 (per pole)  43 (per pole)  44 (per pole)  45 (per pole)  46 (per pole)  47 (per pole)  48 (per pole)  49 (per pole)  40 (per pole	Rated operational voltage	U <sub>e</sub>	V	
Rated switching capacity acc. to IEC/EN 60947-2  Operational switching capacity  Characteristic  Max. back-up fuse Selectivity Class Lifespan Operations Direction of incoming supply  Mechanical  Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities  KA 15  KA 7.5  KA 7.5  R.C, D  B, C, D  125  3  126  3  127  3  129  48  49  49  49  49  49  49  49  49  4		U <sub>e</sub>	V AC	230/400
Operational switching capacity       KA       7.5         Characteristic       B, C, D         Max. back-up fuse       A gL/g6       125         Selectivity Class       3       3         Lifespan       Operations       > 10000         Direction of incoming supply       as required         Mechanical       mm       45         Enclosure height       mm       80         Enclosure height       Finger and back-of-hand proof to BGV A2         Mounting width per pole       mm       17.5         Mounting       IEC/EN 60715 top-hat rail       IP20, IP40 (when fitted)         Degree of Protection       Twin-purpose terminals         Terminals top and bottom       mm²       mm²			V DC	48 (per pole)
Characteristic B, C, D  Max. back-up fuse A gL/g6 Selectivity Class 3  Lifespan Operations > 10000  Direction of incoming supply as required  Mechanical  Standard front dimension mm 45  Enclosure height mm 80  Terminal protection Mounting width per pole mm 17.5  Mounting Width per pole mm 17.5  Mounting Degree of Protection	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Max. back-up fuse Selectivity Class Selectivity Class  Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities  A gL/gG 125  3 3 10000 as required  ***********************************	Operational switching capacity		kA	7.5
Selectivity Class Lifespan Operations > 10000 Direction of incoming supply as required  Mechanical  Standard front dimension mm 45 Enclosure height mm 80  Terminal protection Finger and back-of-hand proof to BGV A2  Mounting width per pole mm 17.5  Mounting Degree of Protection IEC/EN 60715 top-hat rail Degree of Protection Terminals top and bottom Terminal capacities mm²  Terminal capacities mm²	Characteristic			B, C, D
Lifespan Operations > 10000 Direction of incoming supply as required  Mechanical  Standard front dimension mm 45 Enclosure height mm 80  Terminal protection Finger and back-of-hand proof to BGV A2  Mounting width per pole mm 17.5  Mounting Degree of Protection IP20, IP40 (when fitted)  Terminals top and bottom Terminal capacities mm²  Terminal capacities > 10000  Directions > 10000  mm 45  Enclosure Height mm 80  Finger and back-of-hand proof to BGV A2  IEC/EN 60715 top-hat rail  IP20, IP40 (when fitted)  Twin-purpose terminals	Max. back-up fuse		A gL/gG	125
Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Terminal protection  Mounting width per pole  Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  as required  mm  45  Finder  B0  Finger and back-of-hand proof to BGV A2  mm  17.5  IEC/EN 60715 top-hat rail  IP20, IP40 (when fitted)  Twin-purpose terminals  mm²	Selectivity Class			3
Mechanical       Standard front dimension     mm     45       Enclosure height     mm     80       Terminal protection     Finger and back-of-hand proof to BGV A2       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 capacities     mm²	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Terminal protection Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting Degree of Protection Iteminals top and bottom Iteminal capacities mm²  Mounting Terminal capacities mm²  Mounting Width per pole mm 17.5  IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals				as required
Enclosure height mm 80  Terminal protection Finger and back-of-hand proof to BGV A2  Mounting width per pole mm 17.5  Mounting Degree of Protection Iteminals top and bottom Iteminal capacities mm <sup>2</sup>	Mechanical			
Terminal protection  Mounting width per pole  Mounting  Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  Finger and back-of-hand proof to BGV A2  mm  17.5  IEC/EN 60715 top-hat rail  IP20, IP40 (when fitted)  Twin-purpose terminals	Standard front dimension		mm	45
Mounting width per pole mm 17.5  Mounting LEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals  Terminal capacities mm²	Enclosure height		mm	80
Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  IEC/EN 60715 top-hat rail  IP20, IP40 (when fitted)  Twin-purpose terminals	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals  Terminal capacities mm <sup>2</sup>	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal capacities Terminal capacities Terminal capacities Terminal capacities	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities mm <sup>2</sup>	Degree of Protection			IP20, IP40 (when fitted)
and the second s	Terminals top and bottom			Twin-purpose terminals
$mm^2$ 1 x 25	Terminal capacities		mm <sup>2</sup>	
			mm <sup>2</sup>	1 x 25
mm <sup>2</sup> 2 x 10			mm <sup>2</sup>	2 x 10
Thickness of busbar material mm 0.8 2	Thickness of busbar material		mm	0.8 2
Mounting position As required	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	13
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	0
Equipment heat dissipation, current-dependent	$P_{\text{vid}}$	W	8.1
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

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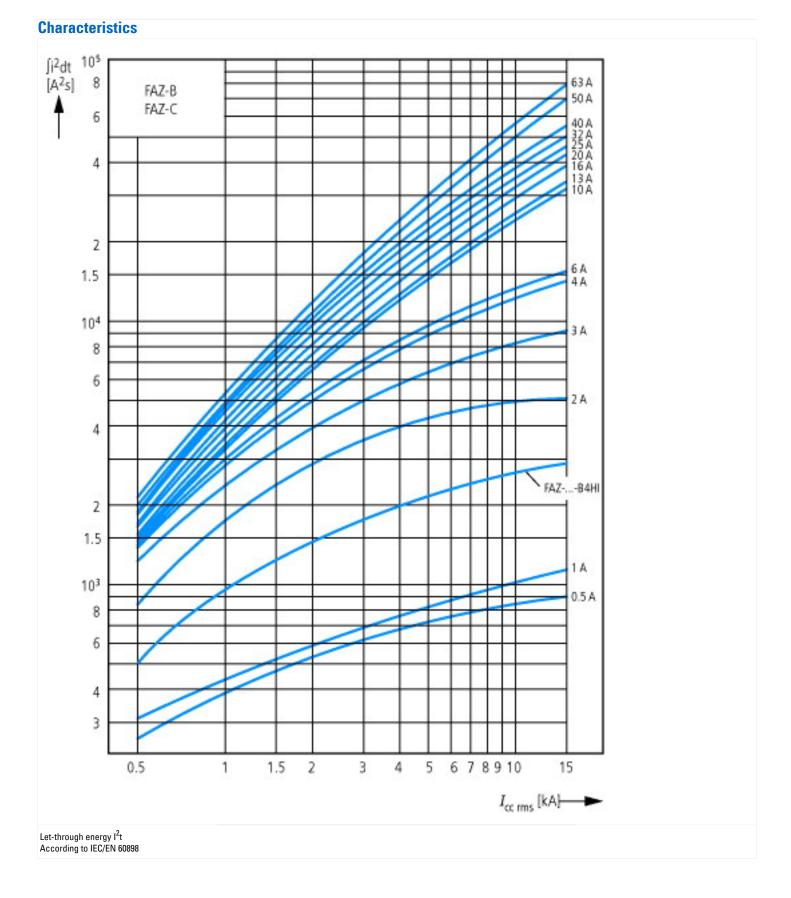
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product 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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction

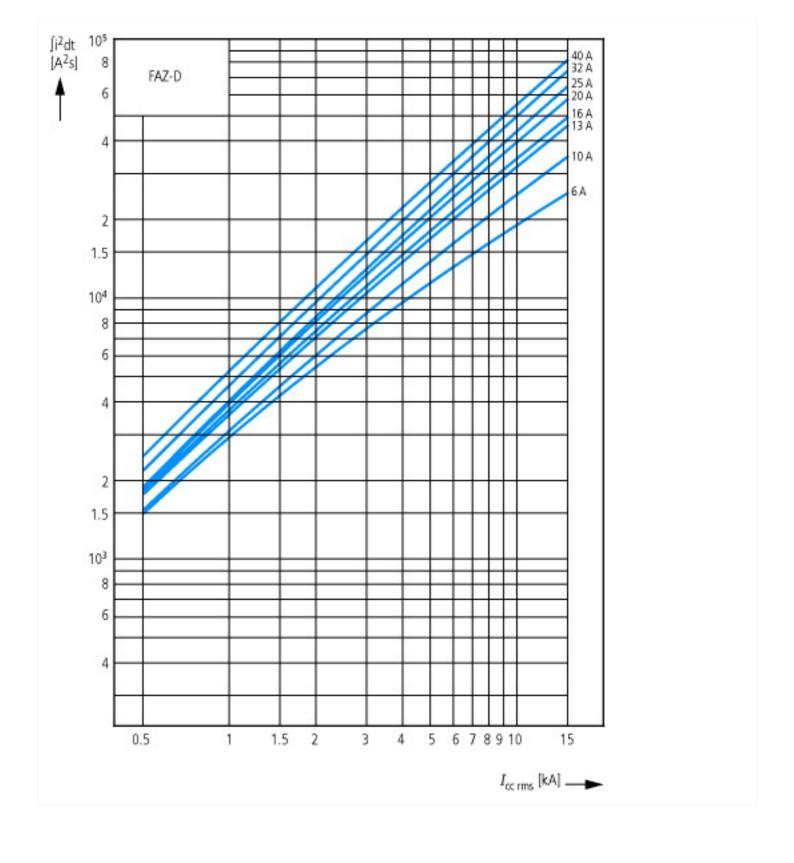
#### **Technical data ETIM 6.0**

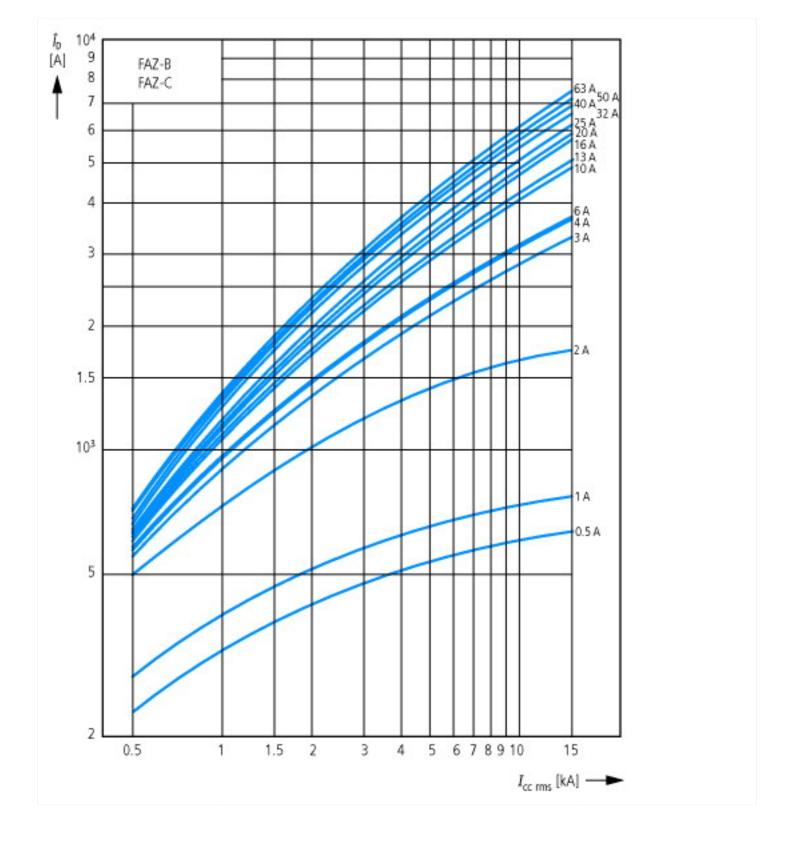
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

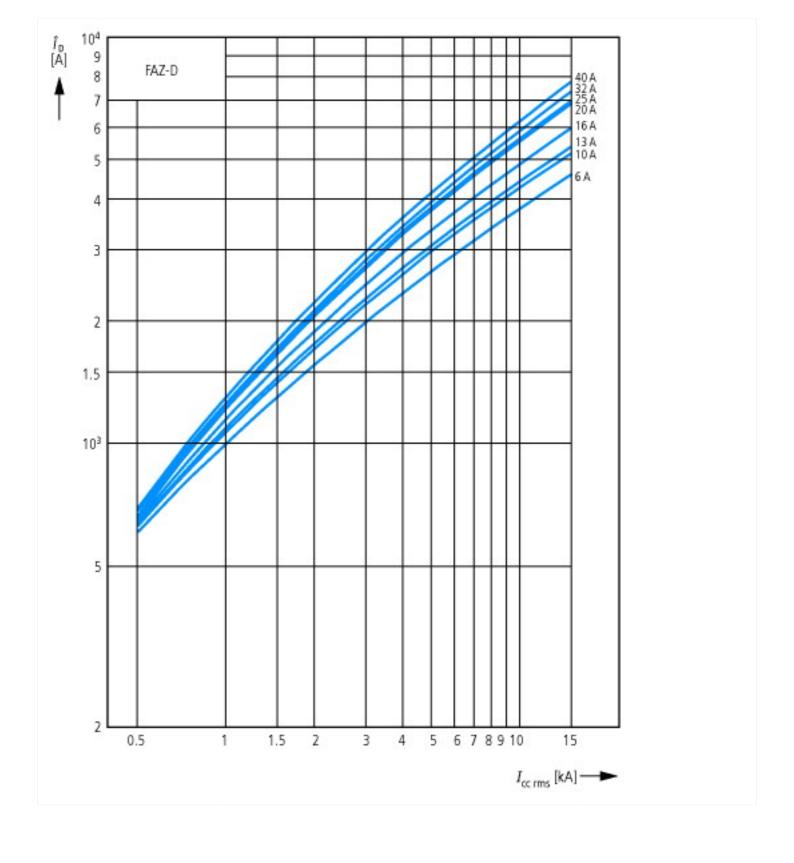
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

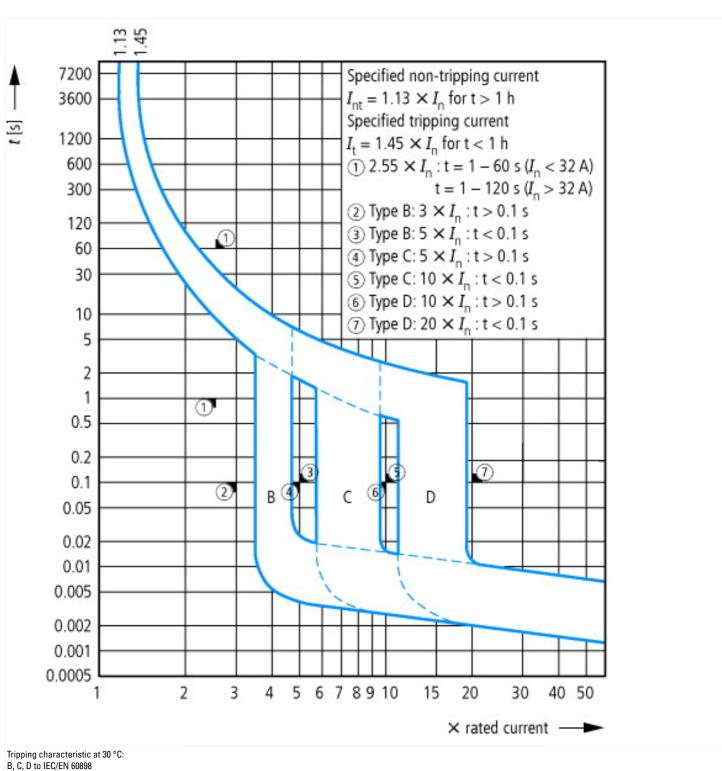
[AAB905011])			
Release characteristic			С
Number of poles (total)			4
Number of protected poles			4
Nominal rated current	,	A	13
Nominal rated voltage	,	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	1	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	ı	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	ı	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	1	kA	15
Voltage type			AC
Current limiting class			3
Frequency	1	Hz	50 - 60
Concurrently switching N-neutral			Yes
Suitable for flush-mounted installation			No
Over voltage category			3
Pollution degree			2
Width in number of modular spacings			4
Built-in depth		mm	70.5
Additional equipment possible			Yes
Degree of protection (IP)			IP20



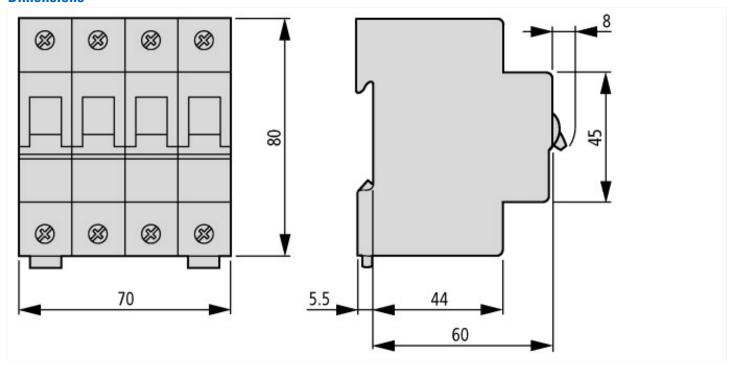








## **Dimensions**



## **Additional product information (links)**

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/17550701.pdf