

### Over current switch, 32A, 3p, C-Char, AC

Powering Business Worldwide\*

Part no. FAZ-C32/3
Article no. 278876
Catalog No. FAZ-C32/3

### **Delivery programme**

Basic function			Miniature circuit breakers
Number of poles			3 pole
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	32
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

#### **Technical data**

#### Electrical

Rated operational voltage  1	Lieuticai			
Lead of witching capacity acc. to IEC/EN 60947-2         V AC         30/400           Deparational switching capacity acc. to IEC/EN 60947-2         kA         15           Deparational switching capacity         kB         7.5           Characteristic         A g//g6         15           Max. back-up fuse         A g//g6         15           Selectivity Class         3         10000           Lifespan         Operations         10000           Direction of incoming supply         5         10000           Mechanical         mm         8           Enclosure height         mm         8           Terminal protection         mm         15           Mounting width per pole         mm         17.5           Mounting width per pole         mm         17.5           Mounting         15         1600715 top-hat rail           Degree of Protection         pm         17.5           Terminals top and bottom         mm         17.5           Terminal capacities         mm         17.25           Inclinearing Lapacities         mm         17.25           Thickness of busbar material         mm         18.22	Standards			
V DC   Rated switching capacity acc. to IEC/EN 60947-2	Rated operational voltage	U <sub>e</sub>	V	
Reted switching capacity acc. to IEC/EN 60947-2 Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Clifespan Operational supply Operational switching supply Operational switching capacity Operations O		U <sub>e</sub>	V AC	230/400
Departational switching capacity Characteristic Max. back-up fuse Selectivity Class Selectivity Class Department of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting Degree of Protection Terminal capacities Terminal capacities Thickness of busbar material  Description			V DC	48 (per pole)
Characteristic Max. back-up fuse Selectivity Class Selectivity Class  Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Forminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities  mm2  Lifespan  B, C, D  25  3  3  3  3  3  4  5  5  6  7  7  7  7  7  7  7  7  7  7  7  7	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 Forminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities Termin	Operational switching capacity		kA	7.5
Selectivity Class  Operations  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  Termina	Characteristic			B, C, D
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  mm²  Include the pole  mm²  Include th	Max. back-up fuse		A gL/gG	125
Direction of incoming supply  Mechanical  Standard front dimension mm 45 Enclosure height mm 80  Ferminal protection mm 17.5  Mounting width per pole mm 17.5  Mounting Degree of Protection Iterminals top and bottom Iterminals top and bottom mm 2  Terminal capacities mm 2  Image: a required mm 45  Image: a required mm 45	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     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  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 IP20, IP40 (when fitted)  Terminals top and bottom Twin-purpose terminals  Terminal capacities mm² 1x 25  mm² 1x 25  mm² 2x 10  Thickness of busbar material mm 0.8 2	Direction of incoming supply			as required
Enclosure height  Terminal protection  Mounting width per pole  Mounting  Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  mm  mm  mm  mm  mm  mm  mm  mm  mm	Mechanical			
Finger and back-of-hand proof to BGV A2  Mounting width per pole  Mounting  Mounting  Degree of Protection  Terminals top and bottom  Terminal capacities  mm²  mm²  1 x 25  mm²  2 x 10  Thickness of busbar material  Finger and back-of-hand proof to BGV A2  Finder And Pack	Standard front dimension		mm	45
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 1x.25  mm² 2x.10  Thickness of busbar material mm 0.8 2	Enclosure height		mm	80
Mounting IEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm²  Terminal capacities mm²  Thickness of busbar material IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals  Twin-purpose terminals  Twin-purpose terminals  0 mm² 0 x 25  0 mm² 0 x 10	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 mm² Ix 25  mm² 2 x 10  Thickness of busbar material mm 0.8 2	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal capacities  mm²  1 x 25  mm² 2 x 10  Thickness of busbar material  Twin-purpose terminals  mm² 0.8 2	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities $\frac{mm^2}{mm^2} = 1 \times 25$ $mm^2 = 2 \times 10$ Thickness of busbar material $mm = 0.8 \dots 2$	Degree of Protection			IP20, IP40 (when fitted)
$\frac{mm^2}{mm^2} = 1 \times 25$ $\frac{mm^2}{mm^2} = 2 \times 10$ Thickness of busbar material $mm = 0.8 \dots 2$	Terminals top and bottom			Twin-purpose terminals
mm <sup>2</sup> 2 x 10 Thickness of busbar material mm 0.8 2	Terminal capacities		$\text{mm}^2$	
Thickness of busbar material mm 0.8 2			$\text{mm}^2$	1 x 25
			$\text{mm}^2$	2 x 10
Mounting position As required	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	Α	32
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	12.1
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
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			

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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 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])

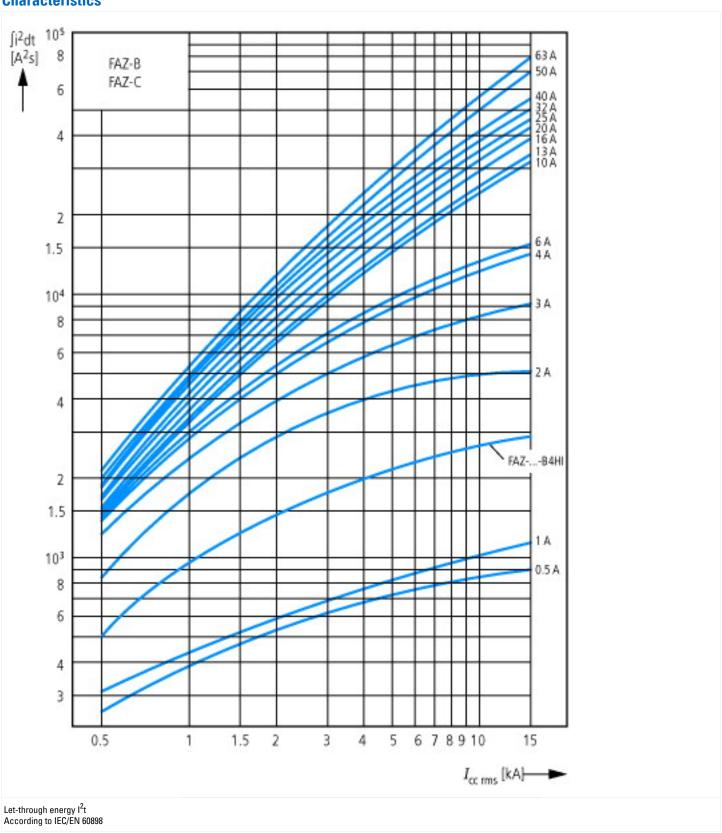
[ a . 20000 ]/		
Release characteristic		С
Number of poles (total)		3
Number of protected poles		3
Nominal rated current	Α	32
Nominal rated voltage	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Rated short-circuit 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
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		No
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		3
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

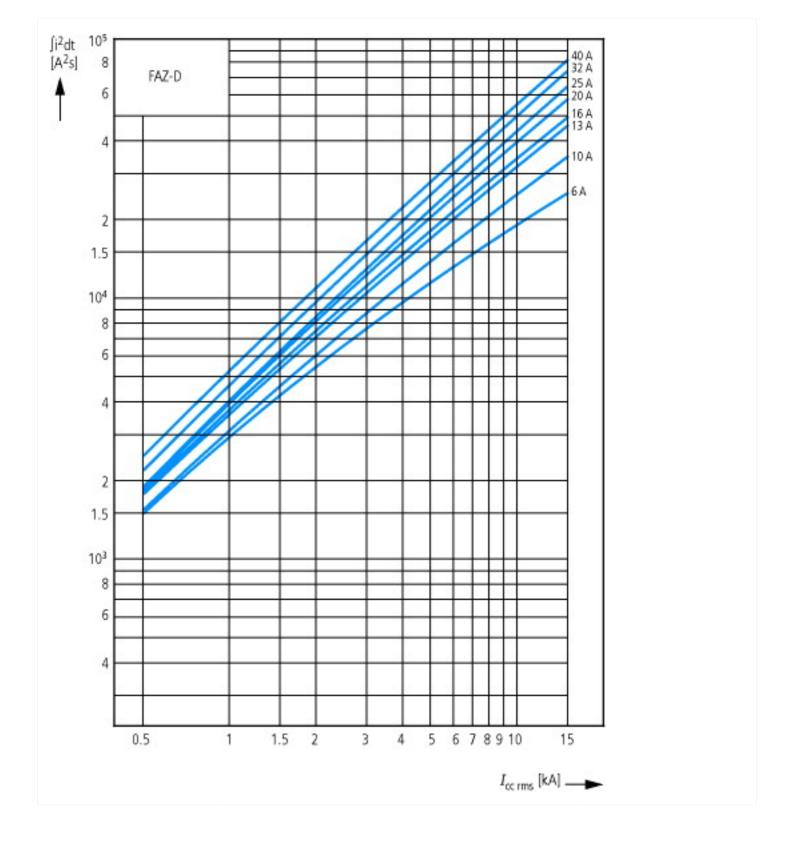
# **Approvals**

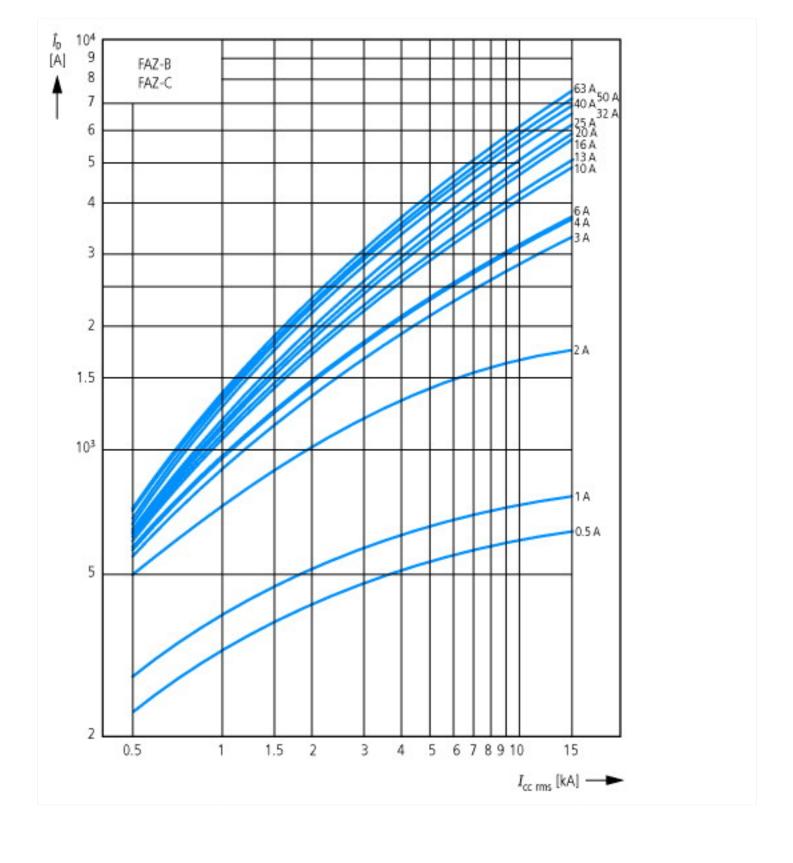
Product Standards		IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking	
UL File No.		E177451	
UL Category Control No.		QVNU2, QVNU8	
CSA File No.  For Sales and Support call KMParts.com (866) 595-9616			

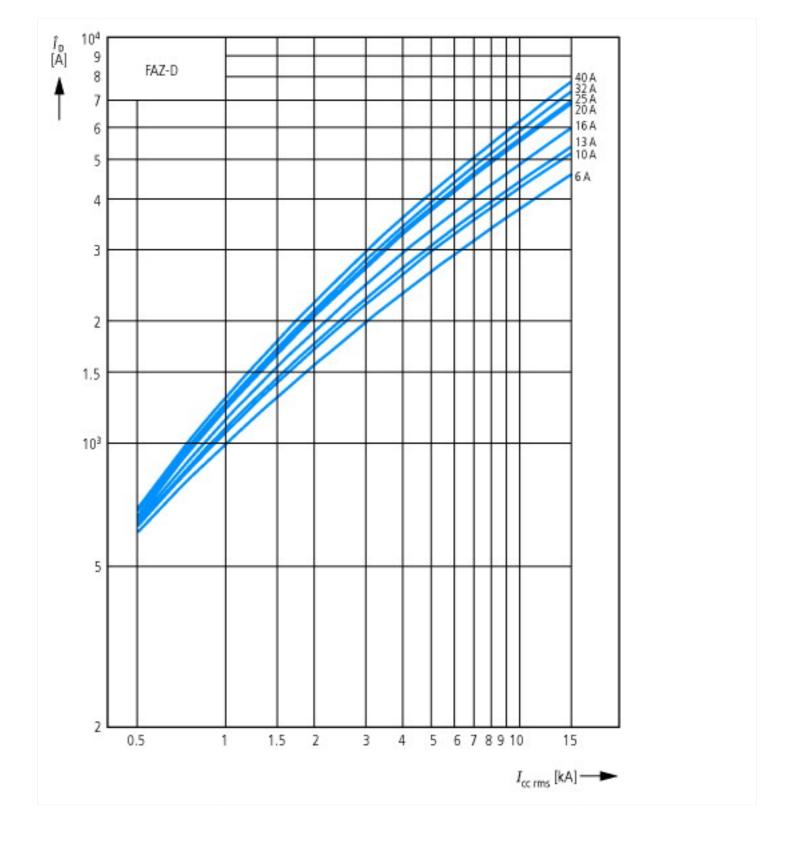
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC
Degree of Protection	IEC: IP20; UL/CSA Type: -

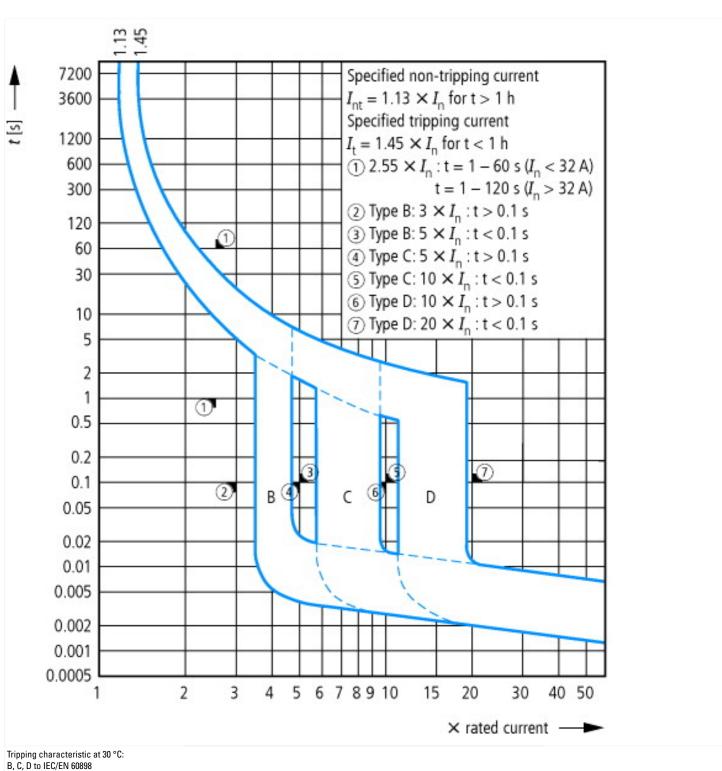
## **Characteristics**



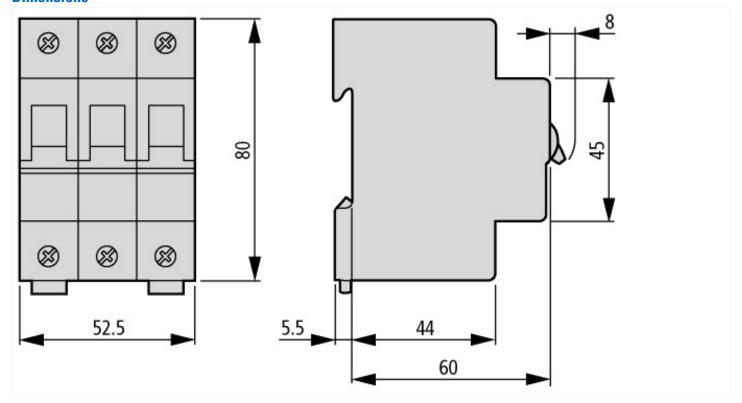








## **Dimensions**



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

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

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