

Over current switch, 32A, 1p, B-Char, AC



FAZ-B32/1 278538 FAZ-B32/1



Similar to illustration

#### **Delivery programme**

Basic function			Miniature circuit breakers
Number of poles			1 pole
Tripping characteristic			В
Application			Switchgear for industrial and advanced commercial applications
Rated current	I <sub>n</sub>	А	32
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

#### Technical data Electrical

Shadards     No     Ve     ICC/NENGRAPH       Rede operational voltage     Ve     Ve     Ve       Rede operational voltage     Ve     Ve     Ve       Rede operational voltage     Ve     Ve     Ve       Rede overlap voltage     Ve     Ve     Ve       Red overlap voltage     Ve     Ne     Ve       Red overlap voltage     Ne     Ve     Ve       Red overlap voltage     Ne     Ve     Ve       Red overlap voltage     Ne     Ve     Ve	Electrical			
Image: space s	Standards			
Index services of the services	Rated operational voltage	U <sub>e</sub>	V	
Reta witching capacity can be UPC/EN 60947-2         Reta Manual Manua Manual Manual Manual Manual Manual Manual Manual Manu		Ue	V AC	230/400
Operational synchronizationIAIAIAOperational synchronizationAgU ofIAIAAscharburg tagsAgU ofIAIASelectivi ClassImage of Image of Ima			V DC	48 (per pole)
CharacteristicKarac	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
As back-up fuse         AgLya         AgLya         AgLya         Image: Constraint of the second	Operational switching capacity		kA	7.5
Selectivity ClassImage: Selectivity Class	Characteristic			B, C, D
Lifespan     Operations     > 1000       Direction of incoming supply     > 1000     > 1000       Mechanical     > 1000     > 1000       Standard front dimension     > 1000     > 1000       Enclosure height     > 1000     > 1000       Torminal protection     > 1000     > 1000       Mounting width per pole     > 1000     > 1000       Mounting     > 1000     > 1000       Degree of Protection     > 1000     > 1000       Terminal stop and bottom     > 1000     > 1000       Terminal capacities     > 10000     > 10000       Terminal capacities     > 10000     > 10000       Terminal capacities     > 100000     > 100000       Terminal capacities     > 100000000000     > 100000000000000000000000000000000000	Max. back-up fuse		A gL/gG	125
Direction of incoming supply         Image: Provide of incoming supply	Selectivity Class			3
Mechanical         nm         45           Standard front dimension         mm         8           Enclosure height         mm         80           Terminal protection         mm         1inger and back-of-hand proof to BGV A2           Mounting width per pole         mm         15           Degree of Protection         FM         FM           Terminal stop and bottom         FM         FM           Terminal capacities         mm <sup>2</sup> FM           Intermination         mm <sup>2</sup> FM           Terminal capacities         mm <sup>2</sup> FM           Intermination         mm <sup>2</sup> FM           Intermination         mm <sup>2</sup> FM           Terminal capacities         mm <sup>2</sup> FM           Intermination         mm <sup>2</sup> FM	Lifespan	Operations		> 10000
Standard front dimensionmm45Enclosure heightmm80Terminal protectionFmmFinger and back-of-hand proof to BGV A2Mounting width per polemm1.5MountingFC/EN 60715 top-hat railDegree of ProtectionFMmFinger and back-of-hand proof to BGV A2Terminals top and bottomFMmFinger and back-of-hand proof to BGV A2Terminal capacitiesFMmFinger and back-of-hand proof to BGV A2Terminal capacitiesFMmFinger and back-of-hand proof to BGV A2Terminal capacitiesFinger and back-of-hand proof to BGV A2Terminal capacities </td <td></td> <td></td> <td></td> <td>as required</td>				as required
Enclosure height       mm       Bind         Funding protection       Figer and back-of-hand proof to BGV A2         Mounting width per pole       Figer and back-of-hand proof to BGV A2         Mounting       Figer and back-of-hand proof to BGV A2         Degree of Protection       Figer and back-of-hand proof to BGV A2         Terminal stop and bottom       Figer and back-of-hand proof to BGV A2         Terminal capacities       Figer and back-of-hand proof to BGV A2         Intermination       Figer and back-of-hand proof to BGV A2         Interminatin       Figer and back-of-hand proof	Mechanical			
Terminal protectionImage: Biger and back-of-hand proof to BGV A2Mounting width per polemm7.5MountingEC/EN 60715 top-hat railDegree of ProtectionFordPol JP40 (when fitted)Terminals top and bottommm²Toin purpose terminalsTerminal capacitiesmm²12.5Inchancemm²12.5Terkines of busbar materialmm²12.5Thickness of busbar materialmm²12.5Terkines of busbar materialmm²12.5 <tr< td=""><td>Standard front dimension</td><td></td><td>mm</td><td>45</td></tr<>	Standard front dimension		mm	45
Mounting width per pole     mm     7.5       Mounting     IC/EN 60715 top-hat rail       Degree of Protection     IC     IC/EN 60715 top-hat rail       Terminals top and bottom     IC     IC/EN 60715 top-hat rail       Terminal capacities     Imm     Imm       Imm     Imm     Imm	Enclosure height		mm	80
Mounting       Image:	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection     Feminals top and bottom     <	Mounting width per pole		mm	17.5
Terminals top and bottom     Image: Section of the sect	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities     mm <sup>2</sup> Imm <sup>2</sup> mm <sup>2</sup> Imm <sup>2</sup>	Degree of Protection			IP20, IP40 (when fitted)
Image: marge state     Image: marge state       Image: marge state     Image: marge state <td>Terminals top and bottom</td> <td></td> <td></td> <td>Twin-purpose terminals</td>	Terminals top and bottom			Twin-purpose terminals
Image: market index	Terminal capacities		mm <sup>2</sup>	
Thickness of busbar material mm 0.82			mm <sup>2</sup>	1 x 25
			mm <sup>2</sup>	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	А	32
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	3.7
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	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
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 b observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must l 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)

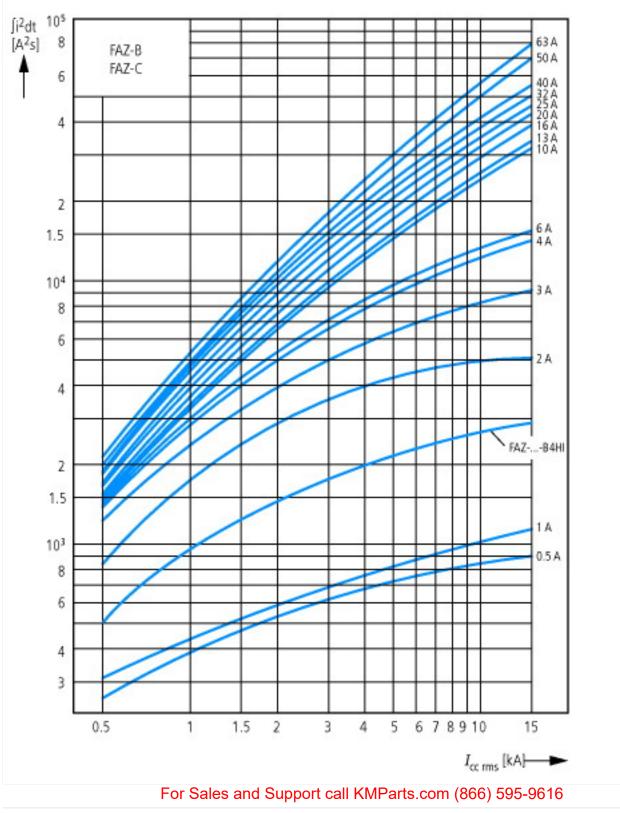
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

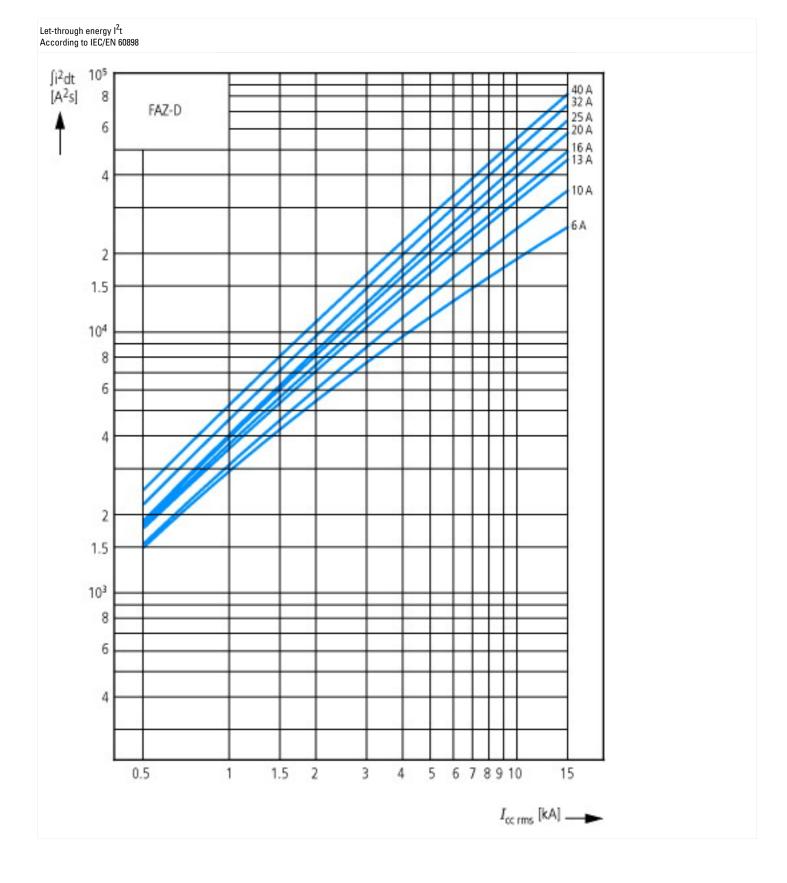
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type	kA	15 AC	
Voltage type Current limiting class		AC 3	
Frequency Concurrently switching N-neutral	Hz	50 - 60 No	
Suitable for flush-mounted installation		No	
Over voltage category Pollution degree		3	
Width in number of modular spacings		1	
Built-in depth	mm	70.5	

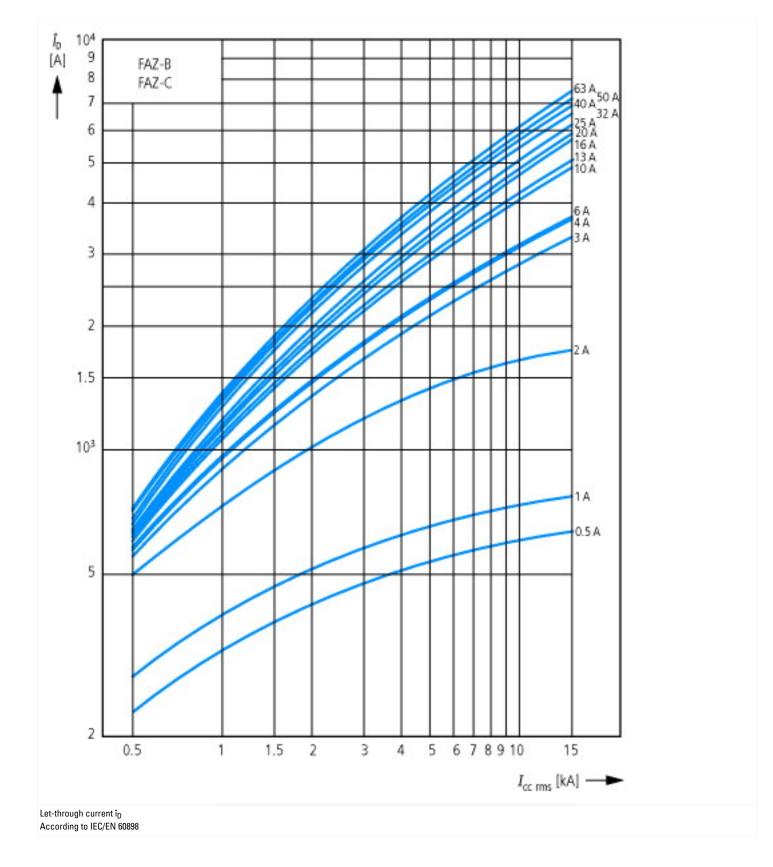
### **Approvals**

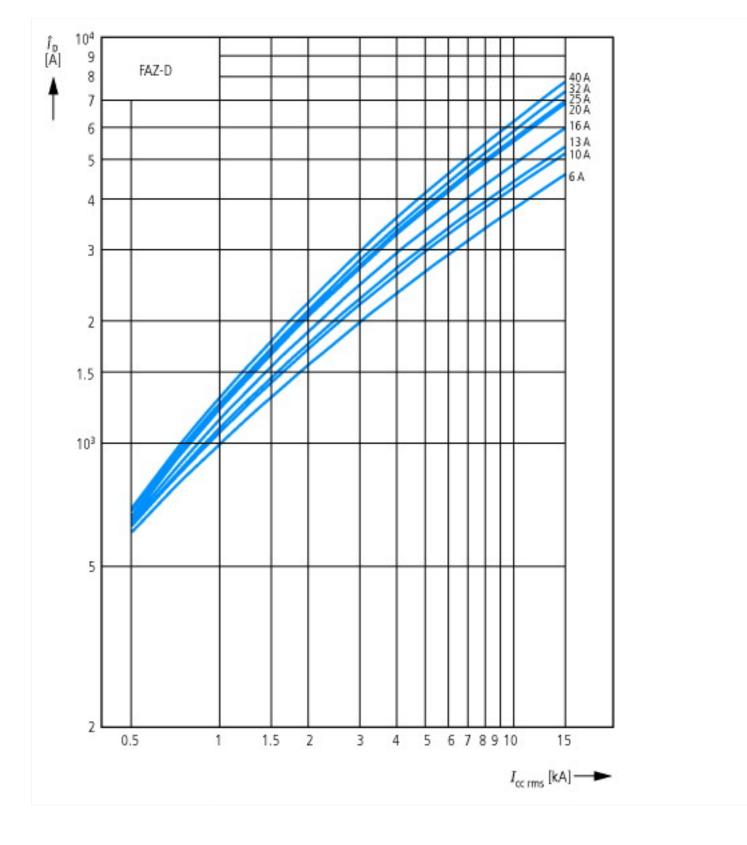
- PP	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector 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: -

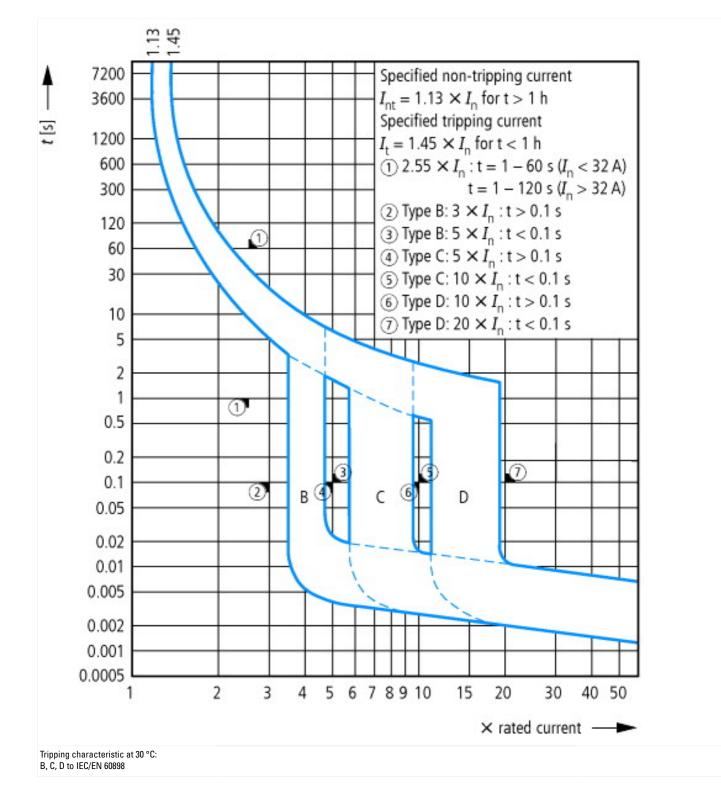
## **Characteristics**



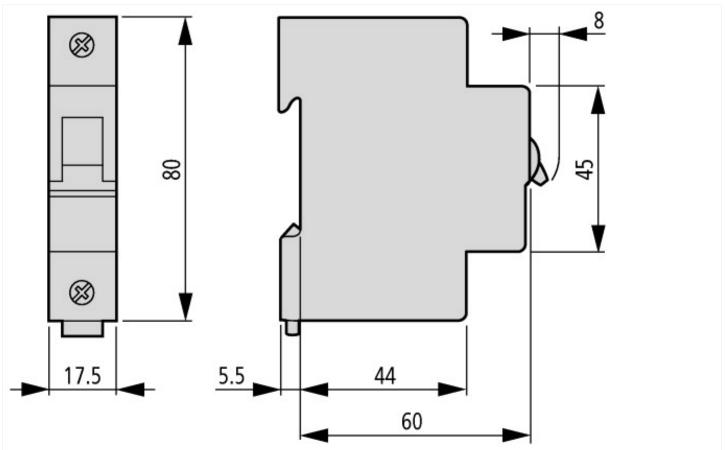








### Dimensions



# Additional product information (links)

### AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

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