



FAZ-B13/1 278533 FAZ-B13/1



#### Similar to illustration

### **Delivery program**

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	13
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

#### Technical data Electrical

Refer     Statument     Refer     Statument     Refer     Statument     Refer     Statument     Refer     Statument     Statument     Refer     Statument     Statument <th>Electrical</th> <th></th> <th></th> <th></th>	Electrical			
Image: space s	Standards			
Index servicesVDCServicesRed switching capacity cac. to EC/EN 60947-2Ka5Operational switching capacityKa5ObscatceristicKa5Max. back-up fuseKa5Selectivity ClassVerationsSelectivityDirection of incoming supplyVerationsselectivityMechanicalVerationsselectivityMechanicalVerationsselectivityStandard ford timensionMaxSelectivityRedissionMaxSelectivityMountingMaxSelectivityNouringMaxSelectivityRemain all protectionMaxSelectivityRemain all protectivityMax<	Rated operational voltage	U <sub>e</sub>	V	
Retes witching capacity acc. to IEC/EN 6094-2     K     K     K       Querational switching capacity     K     S     S       Characteristic     K     K     S       Max back-up fuso     K     K     S       Selectivity Class     S     S     S       Lifespan     Operational     Y     S     S       Notechanical     Operational     Y     S     S     S       Retender of incoming supply     Operational     Y     S		U <sub>e</sub>	V AC	230/400
Qerational solutionKaKaSolutionCharacteristicA gl/GB(D)Max. back-up fuseA gl/GB(D)Selectivity ClassDeratorB(D)Direction of inoming supplyNoarouredDirection of inoming supplyMaxB(D)Actard fund timensionMaxB(D)Andard fund timensionMaxB(D)Analysis ClassMaxSolutionMathematicationMaxB(D)Analysis ClassMaxSolutionMathematication			V DC	48 (per pole)
CharacteristicResponseR	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
As back-up fuse     AgLya     AgLya     Index       Selectivity Class     Operations     1000     1000       Lifespan     Operations     1000     1000       Brechanical     Image: Selectivity Class     1000     1000       Mechanical     Image: Selectivity Class     Image: Selectivity Class     1000     1000       Standard front dimension     Image: Selectivity Class     Image:	Operational switching capacity		kA	7.5
Selectivity ClassAppendix of the selection of incoming supplyAppendix of the selection of incoming supplySelection o	Characteristic			B, C, D
Liespan Operations >10000   Direction of incoming supply Servired servired   Mechanical servired Servired   Standard front dimension Image Mon   Enclosure height Image Mon   Terminal protection Image Mon   Mounting width per pole Image Image   Mounting Image Image   Degree of Protection Image Image   Terminal stop and bottom Image Image   Terminal capacities Image <t< td=""><td>Max. back-up fuse</td><td></td><td>A gL/gG</td><td>125</td></t<>	Max. back-up fuse		A gL/gG	125
Direction of incoming supply     Image: Sequired     sequired       Mechanical     sequired     sequired       Standard front dimension     Image: Sequired     Sequired       Enclosure height     Image: Sequired     Sequired       Terminal protection     Image: Sequired     Sequired       Mounting width per pole     Image: Sequired     Sequired       Degree of Protection     Image: Sequired     Sequired       Terminal stop and bottom     Image: Sequired     Sequired       Terminal capacities     Image: Sequired     Sequired       Image: Sequired Sequ	Selectivity Class			3
Mechanical     mm     45       Standard front dimension     mm     6     mm     6<	Lifespan	Operations		> 10000
Standard front dimensionmm45Enclosure heightmm0Terminal protectionFinger and back-of-hand proof to BGV A2Mounting width per polemm1.5MountingIC/EN 60715 top-hat railDegree of ProtectionICmmTerminals top and bottommmimin-purpose terminalsTerminal capacitiesmmmmInterminationmmimin-purpose terminalsInterminationmmimin-purpose terminalsInterminationmmimin-pu	Direction of incoming supply			as required
Enclosure height   mm   Bod   Bod     Terminal protection   Figer and back-of-hand proof to BGV A2     Mounting width per pole   mm   1.5     Mounting   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Degree of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Protection   Figer and back-of-hand proof to BGV A2   Figer and back-of-hand proof to BGV A2     Terminal copy of Proof to BGV A	Mechanical			
Terminal protectionImage: Single and back-of-hand proof to BGV A2Mounting width per polemm7.5MountingECKN 60715 top-hat railDegree of ProtectionMm120, IP40 (when fitted)Terminals top and bottommm²Tom; purpose terminalsTerminal capacitiesmm²120, IP40 (when fitted)Letter of the servicemm²120, IP40 (when fitted)Terminal capacitiesmm²120, IP40 (when fitted)Letter of the servicemm²120, IP40 (when fitted) <t< td=""><td>Standard front dimension</td><td></td><td>mm</td><td>45</td></t<>	Standard front dimension		mm	45
Mounting width per polemm1.5MountingMm1.5MountingICEN 60715 top-hat railDegree of ProtectionICICTerminals top and bottomICICTerminal capacitiesmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²Intermediationmm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im²IntermediationIm²Im² <t< td=""><td>Enclosure height</td><td></td><td>mm</td><td>80</td></t<>	Enclosure height		mm	80
Mounting   Image:	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection Image: Sector	Mounting width per pole		mm	17.5
Terminals top and bottom Image: margin mar	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> Imm <sup>2</sup> 1×25   Imm <sup>2</sup> x 10   Thickness of busbar material mm 082	Degree of Protection			IP20, IP40 (when fitted)
Image: margin m Margin margin marg	Terminals top and bottom			Twin-purpose terminals
Image:	Terminal capacities		mm <sup>2</sup>	
Thickness of busbar material mm 0.8 2			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	I <sub>n</sub>	А	13
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	2.5
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 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 leaflet (IL) is observed.

### **Technical data ETIM 6.0**

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

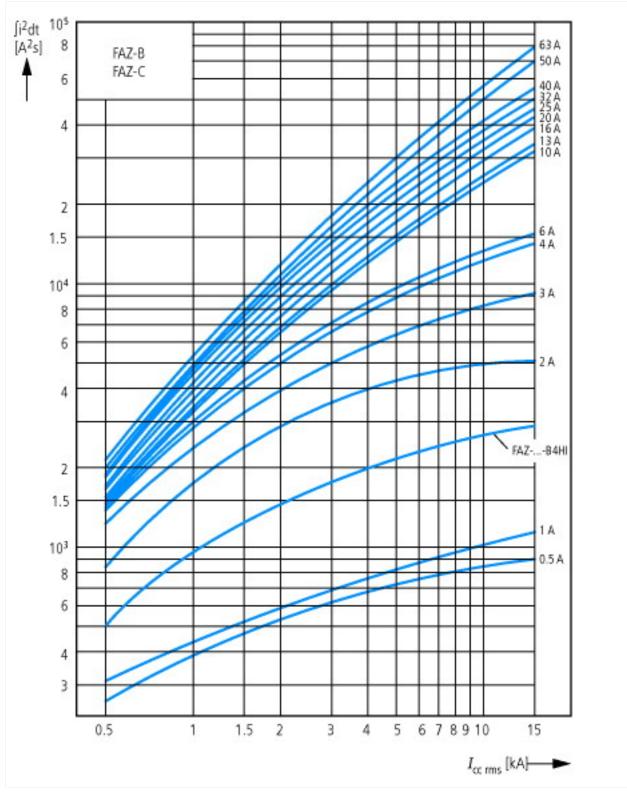
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

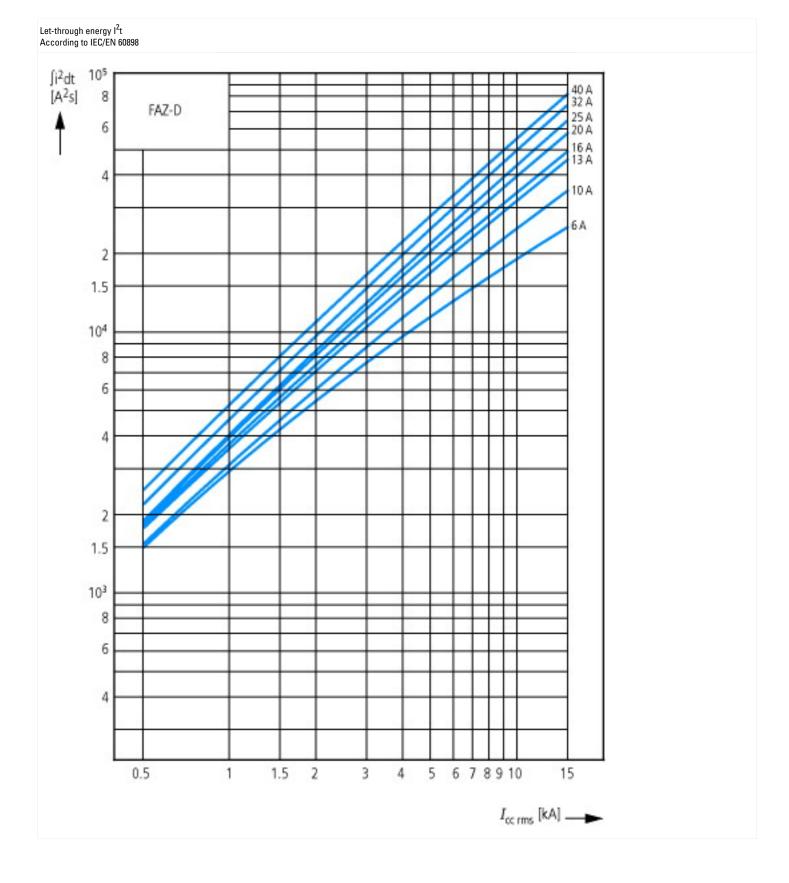
Release characteristic		В
Number of poles (total)		1
Number of protected poles		1
Nominal rated current	А	13
Nominal rated voltage	V	230
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity 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		1
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

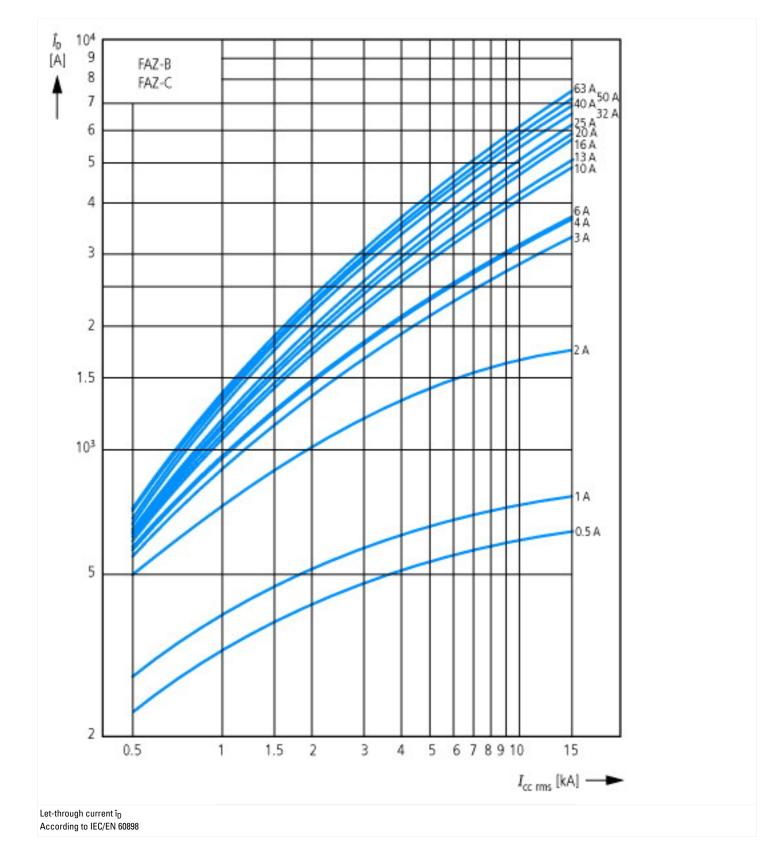
### **Approvals**

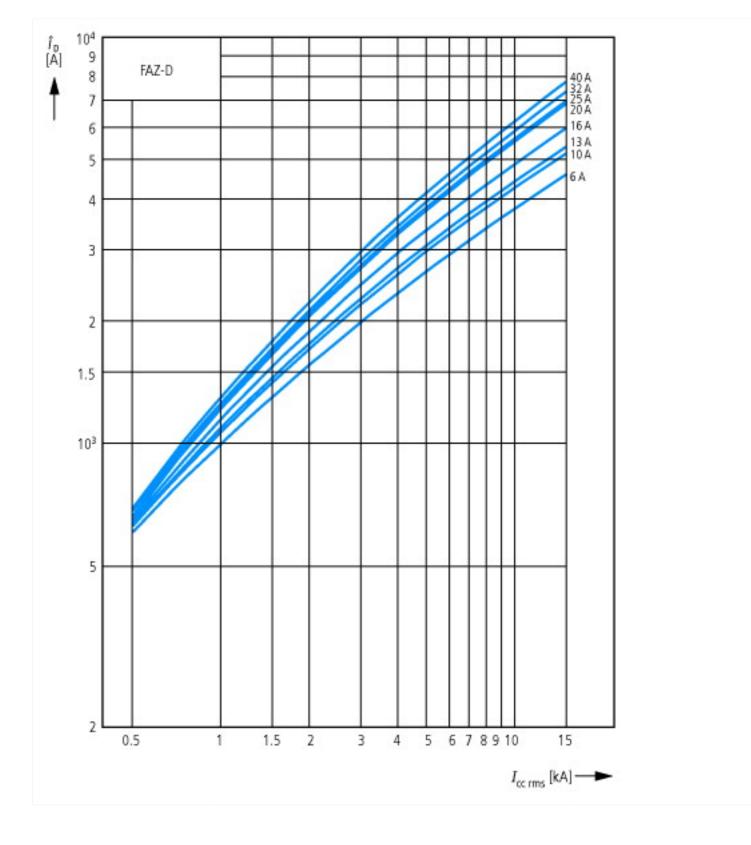
IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
E177451
QVNU2, QVNU8
204453
3215-30
UL recognized, CSA certified
Supplementary Protector only
Branch Circuits; not as BCPD
No
277 VAC; 48 VDC
IEC: IP20; UL/CSA Type: -

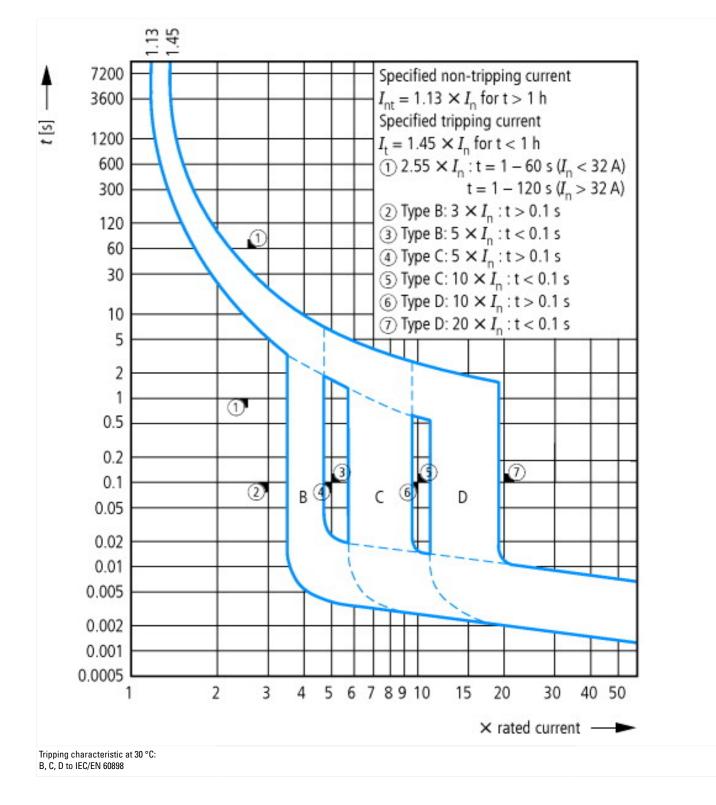
# **Characteristics**



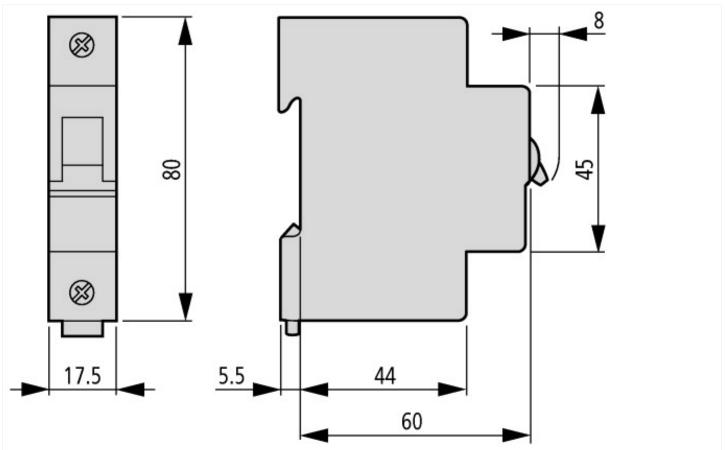








### Dimensions



# Additional product information (links)

### AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

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