

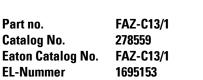
Part no.

Catalog No.

EL-Nummer

(Norway)

Miniature circuit breaker (MCB), 13A, 1p, C-Char, AC





Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	I _n	А	13
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

Technical data Flectrical

Refer Field Field <th< th=""><th>Electrical</th><th></th><th></th><th></th></th<>	Electrical			
Image: space s	Standards			
Index space sp	Rated operational voltage	U _e	V	
Raded switching capacity acc. to IEC/EN 60947-2 K K K Operational switching capacity K K S Characteristic K K K Selectivity Class Y K S Selectivity Class Operational switching capacity Y S S Direction of incoming supply Operational switching capacity Y S S Nechanical Y Y S S S Terminal protection Y Y S S S Mounting width per pole Y Y S Rectand front dimension Y Y Y S S S S S S <		Ue	V AC	240/415
AppendimentationImage: Appendix and the second			V DC	60 (per pole)
Characteristic Image: Participant set of the se	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Max. back-up tuseA gLygIsSelectivity ClassVer andJournetLifespanVer andJournetDirection of incoming supplyVer andJournetWechanicalMarkMarkMarkStandard front dimensionMarkMarkMarkEnclosure heightMarkMarkMarkMounting width per poleMarkMarkMarkMounting width per poleMarkMarkMarkDirectionalMarkMarkMarkTerminal copacitiesMarkMarkMarkDirectionalMarkMarkMarkTerminal copacitiesMarkMarkMarkTerminal copacitiesMark<	Operational switching capacity		kA	7.5
Selectivity Class Journal Selection of Incoming supply Journal Selection of Incoming Selectio	Characteristic			B, C, D
Lifespan Operations > 1000 Direction of incoming supply > required Wechanical > required Standard front dimension Mon Enclosure height Mon Terminal protection Mon Mounting width per pole Mon Mounting Ford back-of-hand proof to BGV A2 Degree of Protection Ford back-of-hand proof to BGV A2 Terminal capacities	Max. back-up fuse		A gL/gG	125
Direction of incoming supply is required Vechanical srequired Standard front dimension m 4 Enclosure height m 8 0 Terminal protection m finger and back-of-hand proof to BGV A2 m Mounting width per pole m finger and back-of-hand proof to BGV A2 m Mounting M To finder and back-of-hand proof to BGV A2 Mounting width per pole m finder and back-of-hand proof to BGV A2 Mounting M finder and back-of-hand proof to BGV A2 Terminal stop and bottom M m fick No 715 top-hat rail Terminal capacities mm finder and fick No fick	Selectivity Class			3
Mechanical mm 4 Standard front dimension mm 4 Enclosure height mm 8 Terminal protection mm 1inger and back-of-hand proof to BGV A2 Mounting width per pole mm 15.5 Degree of Protection Freminals top and bottom Freminals top and bottom Freminals top and bottom Freminals and bo	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 1.5 Degree of Protection FIC/EN 60715 top-hat rail Terminals top and bottom mm ² Toin-purpose terminals Terminal capacities mm ² 1×25 Mounting mm ² 1×25 Terminal capacities mm ² 2×10 Terminals top and bottom mm ² 1×25 Terminal capacities mm ² 1×25	Direction of incoming supply			as required
Enclosure height mm 80 Terminal protection Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 1.5 Mounting Finder Auf (when fitted) Finder Auf (when fitted) Degree of Protection Finder Auf (when fitted) Finder Auf (when fitted) Terminal capacities mm 1x2 Terminal c	Mechanical			
Terminal protectionImage and back-of-hand proof to BGV A2Mounting width per polemm7.5MountingImage and back-of-hand proof to BGV A2Image and back-of-hand proof to BGV A2Degree of ProtectionImage and back of hand proof to BGV A2Image and back-of-hand proof to BGV A2Terminals top and bottomImage and back of hand proof to BGV A2Image and back-of-hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand proof to BGV A2Image and back of hand proof to BGV A2Terminal capacitiesImage and back of hand pr	Standard front dimension		mm	45
Mounting width per pole mm 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection IC/EN 60715 top-hat rail Terminals top and bottom IC/EN 60715 top-hat rail Terminal capacities Imm Immediate Immediate Immediate	Enclosure height		mm	80
Mounting Image: Image	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm ² Imm ² 1x 25 Imm ² 1x 10 Imm ² 1x 25 Imm ² 1x 10 Imm ² 1x 10 Imm ² 1x 25 Imm ² 1x 10 Imm ² 1x 10 Imm ² 1x 10	Mounting width per pole		mm	17.5
Terminals top and bottom Image: Constraint of the sector	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities mm ² mm ² 1x 25 mm ² 2x 10 Thickness of busbar material mm 08 2	Degree of Protection			IP20, IP40 (when fitted)
Image: Non-State Image: Non-State	Terminals top and bottom			Twin-purpose terminals
Image: market index	Terminal capacities		mm ²	
Thickness of busbar material mm 0.8 2			mm ²	1 x 25
			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	А	13
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	2.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	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
EC/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)

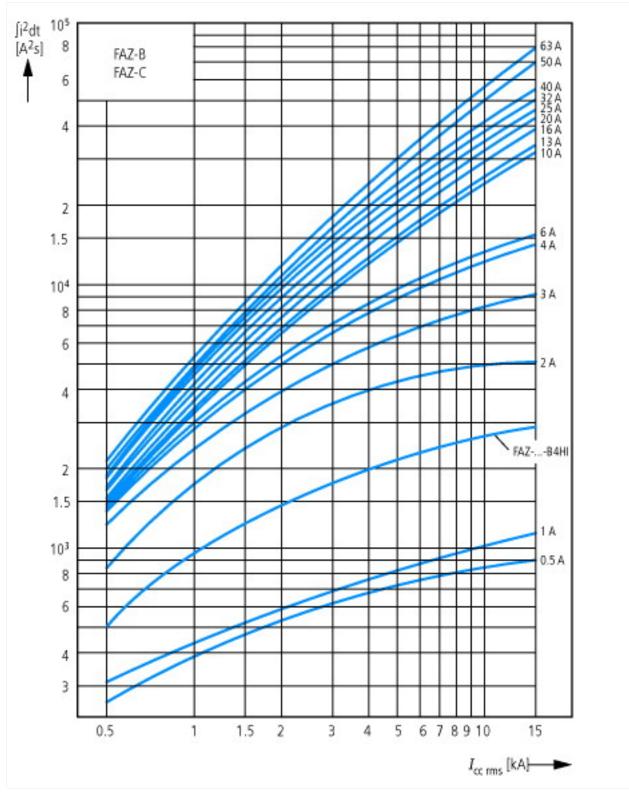
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

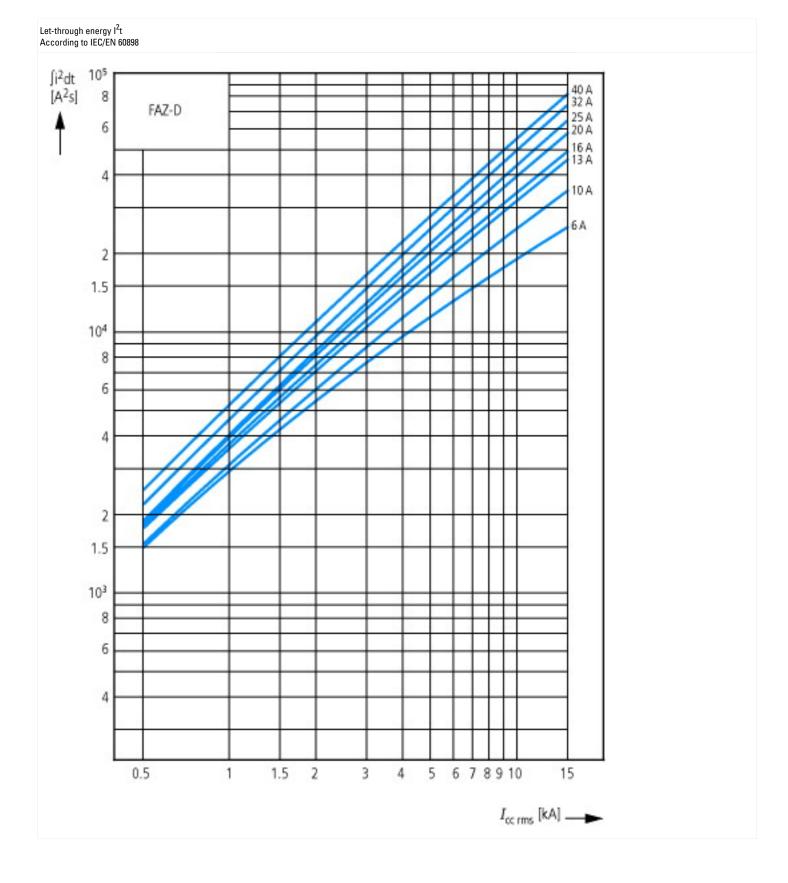
Release characteristic		C
Number of poles (total)		1
Number of protected poles		1
Nominal rated current	А	13
Nominal rated voltage	V	230
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity 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

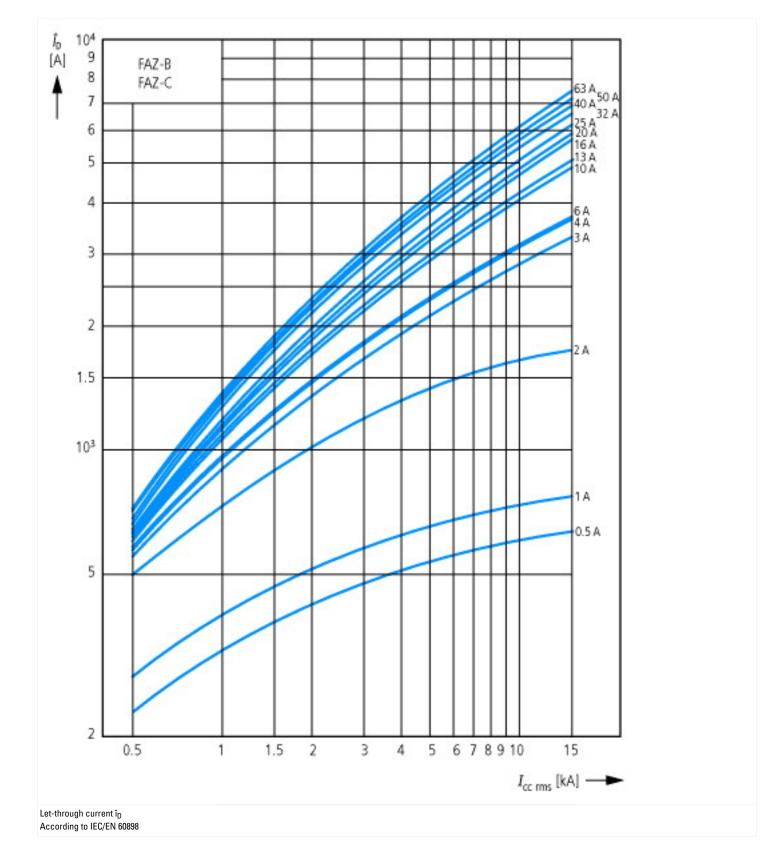
Approvals

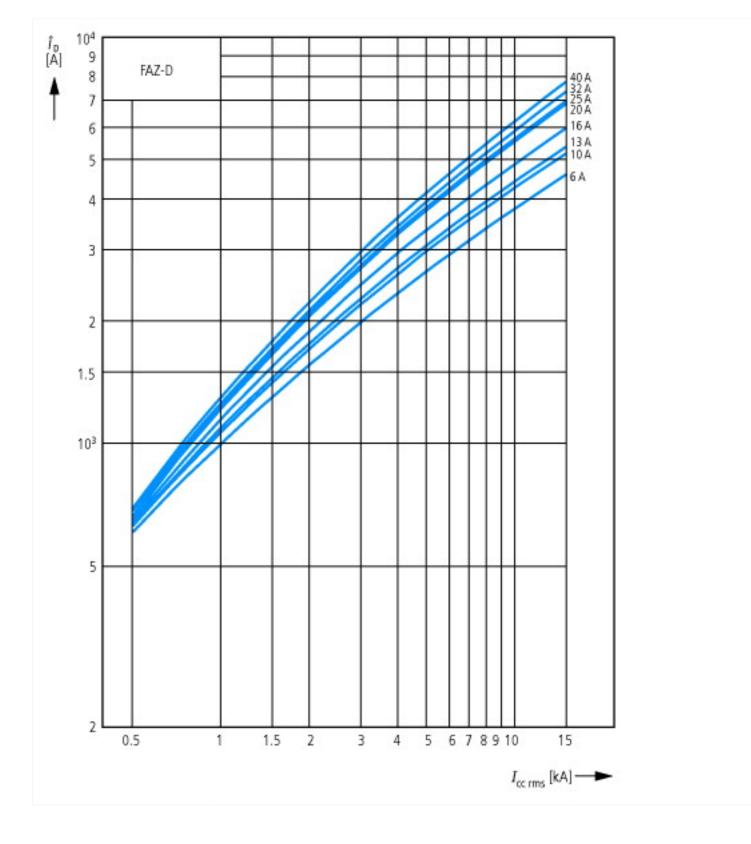
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable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

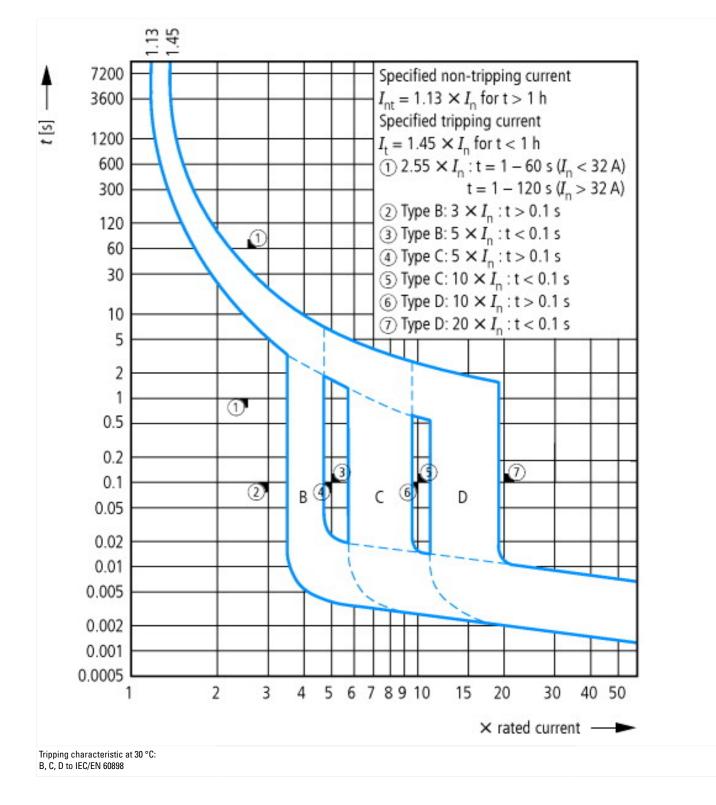
Characteristics



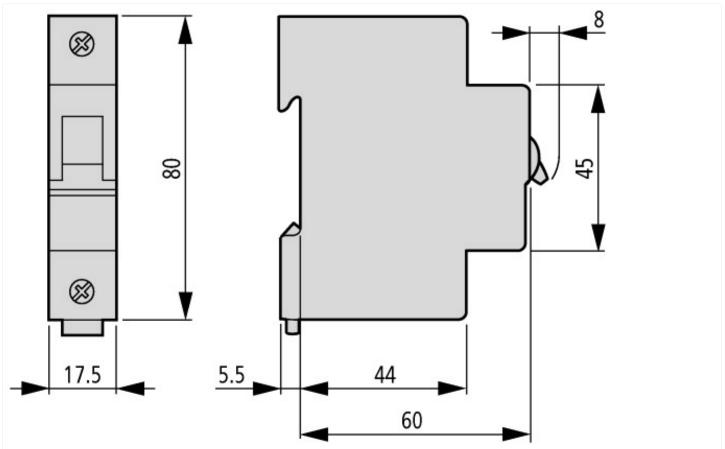








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf

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