## DATASHEET - FAZ-D10/3

Miniature circuit breaker (MCB), 10A, 3p, D-Char, AC



Part no.	FAZ-D10/3
Catalog No.	278892
Alternate Catalog	FAZ-D10/3
No.	
EL-Nummer	0001695230
(Norway)	

Similar to illustration

#### **Delivery program**

Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	10
Rated switching capacity acc. to IEC/EN 60947-2	l <sub>cu</sub>	kA	15
Product range			FAZ

# Technical data

Red operational wordsogeUnit of the second seco	Electrical			
Image: section of the section of th	Standards			
ViceØeropeloneRed switching capacity act. to EC/EN 60947-2FuKa5Operational switching capacityKa55CharacteristicKaS5Max. back-up fuseSS5Selectivity ClassVerverKa3IfespanVerverVerverS3000Direction fincoming supplyVerverVerverS3000Selectivity ClassNomS33Enclosure fuightNomS33Border ford dimensionNomSS3Routing work the probeNomSS3MontingNomSSS3Another fuightNomSSSSNorming controlNomSSSSNorming ControlNomSSSSSNorming ControlNomSSSSSSTerminal capacitiesNomSS	Rated operational voltage	U <sub>e</sub>	V	
Red switching capacity acc. to EK/EN 60847-2I I I I I CharacteristicI <br< td=""><td></td><td>U<sub>e</sub></td><td>V AC</td><td>240/415</td></br<>		U <sub>e</sub>	V AC	240/415
Operational switching capacity     Ka     5       Characteristic     6,0,K,S,Z       Max. back-up fuse     5       Selectivity Class     4 gL/g3       Lifespan     Operational     1       Direction of incoming supply     Fee     3       Max. back up fuse     -     -       Selectivity Class     -     -       Direction of incoming supply     Fee     -       Machard fort dimension     -     -       Belosure height     -     -     -       Mounting wordth per pole     -     -     -       Nouting     -     -     -     -       Terminal protection     -     <			V DC	60 (per pole)
Characteristic   B	Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Max.back-upfuse   Agl/g6   25     Selectivity Class   Pagl/g6   25     Lifespan   Operations   9   30000     Direction of incoming supply   se required   se required     Mex.back-upfuse   mm   50   50     Standard fort dimension   Mm   50   50     Mounting width per pole   mm   50   50     Mounting   Mm   50   50   50     Derection of incoming supply   mm   50 <td>Operational switching capacity</td> <td></td> <td>kA</td> <td>7.5</td>	Operational switching capacity		kA	7.5
Selectivity Class     A     I	Characteristic			B, C, D, K, S, Z
Ifespan     Image: Market State Stat	Max. back-up fuse		A gL/gG	125
Lifespan     Operations     Image: Section of incoming supply     Solution     Section of incoming supply     Section of incoming     Sectin	Selectivity Class			3
Direction of incoming supply     Image: Provide a sequired       Mechanical     mm     \$       Standard front dimension     mm     \$       Enclosure height     mm     \$       Mounting width per pole     mm     \$       Mounting     Mm     \$       Degree of Protection     Mm     \$       Terminals top and bottom     Mm     \$       Terminal capacities     Mm     \$       Terminal capacities     Mm     \$       Terminal capacities     mm     \$       Immini Capacities     mm	lifespan			
Mechanical     mm     45       Standard front dimension     mm     Monting     Mm     Monting width per pole     mm     7.5       Mounting     Mm     Monting     Feed Portection     Feed Por	Lifespan	Operations		> 10000
Standard front dimension   mm   4     Enclosure height   mm   80     Mounting width per pole   mm   15.5     Mounting   EC/EN 60715 top-hat rail   100.1140 (when fitted)     Degree of Protection   FM   120.1440 (when fitted)     Terminals top and bottom   FM   FM   FM     Terminal capacities   FM   FM   FM     Terminal capacities   FM   FM   FM     Internet width of the fitted)   FM   FM   FM     Terminal capacities   FM   FM   FM   FM   FM     Terminal capacities   FM   FM <t< td=""><td>Direction of incoming supply</td><td></td><td></td><td>as required</td></t<>	Direction of incoming supply			as required
Enclosure height   mm   80     Mounting width per pole   mm   1.5     Mounting   EC/EN 60715 top-hat rail   EC/EN 60715 top-hat rail     Degree of Protection   FM   1.2     Terminal stop and bottom   FM   FM     Terminal capacities   Mm   imm     Terminal capacities   Mm   imm <	Mechanical			
Mounting width per pole   nm   1.5     Mounting   IC/EN 60715 top-hat rail     Degree of Protection   F02, IP40 (when fitted)     Terminals top and bottom   Mm   100, IP40 (when fitted)     Terminal protection   Mm   Image: Minipup Sector     Terminal capacities   Mm   Image: Minipup Sector     Indextor   Mm2   Image: Minipup Sector     Indextor   Mm2   Image: Minipup Sector     Thickness of busbar material   Mm   Sector     Minipup Sector   Mm2   Image: Minipup Sector     Terminal capacities   Mm2   Image: Minipup Sector     Indextor   Minipup Sector   Minipup Sector     Indextor   Minipup Sector   Minipup Sector     Indextor   Minipup Sector   Minipup Sector	Standard front dimension		mm	45
Mounting   Image: Ima			mm	80
Degree of Protection   P20, IP40 (when fitted)     Terminals top and bottom   Twin-purpose terminals     Terminal protection   Twin-purpose terminals     Terminal capacities   mm <sup>2</sup> Immersion   1x 25     Terminal capacities   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup> Immersion   1x 25     Terminal capacities   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup> Immersion   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup> Immersion   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup> Immersion   mm <sup>2</sup> Terminal capacities   mm <sup>2</sup>	Mounting width per pole		mm	17.5
Terminals top and bottom   Image: Sector S	Mounting			IEC/EN 60715 top-hat rail
Terminal protectionImage: Singer and back-of-hand proof to BGV A2Terminal capacitiesmm²Image: Singer and back-of-hand proof to BGV A2mm²Image: Singer and back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and back-of-hand proof to BGV A2mm²Image: Singer and back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and back-of-hand proof to BGV A2mm²Image: Singer and back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and back-of-hand proof to BGV A2mm²Image: Singer and back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and back-of-hand proof to BGV A2mm²Image: Singer and back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and Back-of-hand proof to BGV A2mm²Image: Singer and Back-of-hand proof to BGV A2singer and back-of-hand proof to BGV A2Image: Singer and Back-of-hand proof to BGV A2mm²Image: Singer and Back-of-hand proof to BGV A2mm²Image: Singer and Back-of-hand proof to BGV A2mm²I	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm <sup>2</sup> Imm <sup>2</sup>	Terminals top and bottom			Twin-purpose terminals
Image: market in the second se	Terminal protection			Finger and back-of-hand proof to BGV A2
Image:	Terminal capacities		mm <sup>2</sup>	
Thickness of busbar material mm 0.8 2			mm <sup>2</sup>	1 × 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

Te	chnical data for design verification			
	Rated operational current for specified heat dissipation	l <sub>n</sub>	А	10
	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.6

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
IEC/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 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 7.0**

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@ss10.0.1-27-14-19-01 [AAB905014])

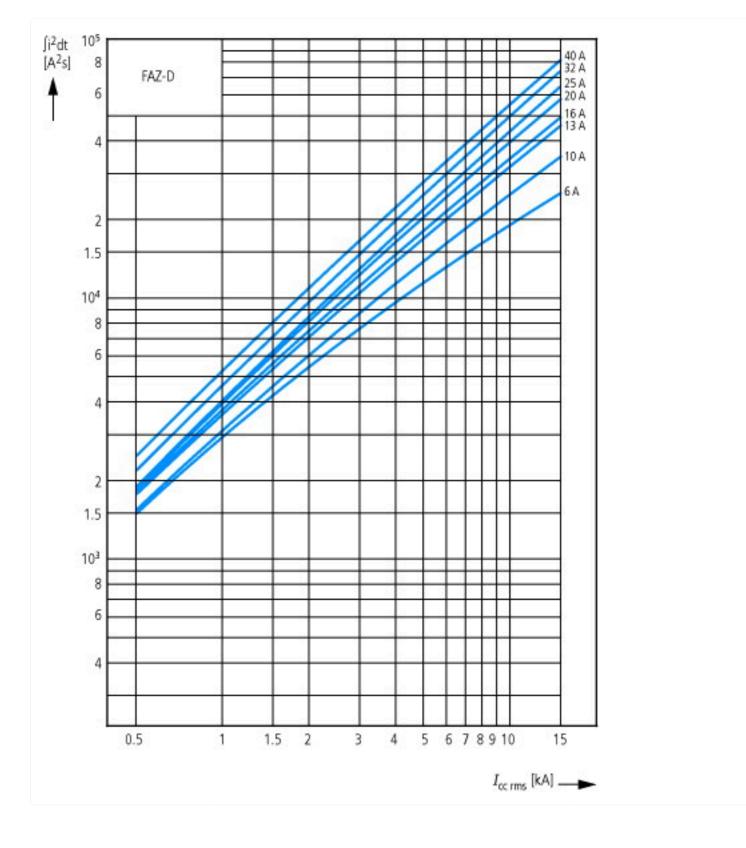
Release characteristic		D
Number of poles (total)		3
Number of protected poles		3
Rated current	А	10
Rated voltage	V	400
Rated insulation voltage Ui	v	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity 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
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2

Additional equipment possible		Yes
Width in number of modular spacings		3
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

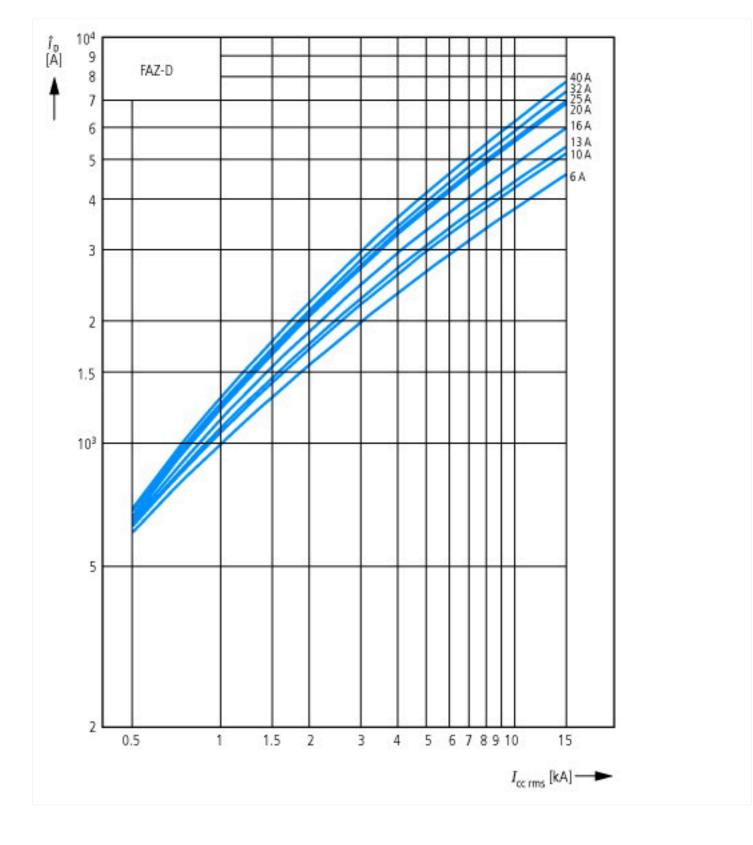
Approvals	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC
Degree of Protection	IEC: IP20; UL/CSA Type: -

## **Characteristics**



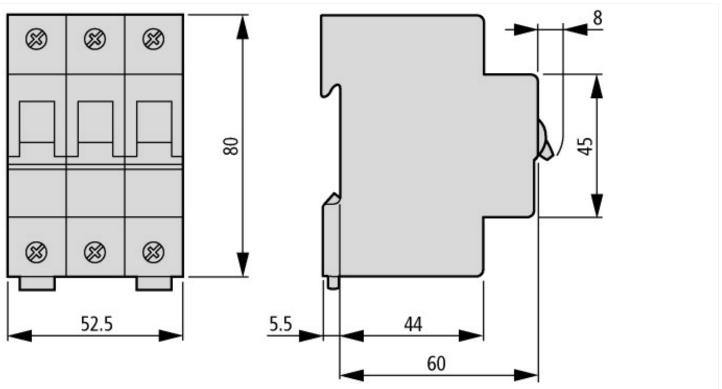








## Dimensions



## Additional product information (links)

#### AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

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