DATASHEET - FAZ-D32/3

Miniature circuit breaker (MCB), 32A, 3p, D-Char, AC



Part no.	FAZ-D32/3
Catalog No.	278899
Alternate Catalog	FAZ-D32/3
No.	
EL-Nummer	0001695235
(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	32
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Product range			FAZ

Technical data

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Image: state of the state of	Standards			
ViceØeroeleRedesivitching capacity acc. to EC/EN 6094-2FuKa9Operational switching capacityKa55CharacteristicKa55Max. back-up fuseFuAg. JG3Selectivity ClassPersonVNoItespanPersonVNoDirectori of incomingPersonVNoRecharactariPersonNoNoSelectivity ClassNoNoNoBranchardPersonNoNoRecharactariNoNoNoSelectivity ClassNoSelectivity ClassNoBranchard dimensionNoNoNoNotaringNoSelectivity ClassNoNotaringNoSelectivity ClassNoNotaringNoSelectivity ClassNoNotaring ClassNoNoNoNotaring ClassNoNoNo	Rated operational voltage	U _e	V	
Redeskitching capacity case. ISE ACE NOR SUBSERPage <t< td=""><td></td><td>Ue</td><td>V AC</td><td>240/415</td></t<>		Ue	V AC	240/415
Construction A FA FA Operational switching capacity 5 5.0, K, S, Z Max. back-up fuse 5 5.0, K, S, Z Max. back-up fuse 5 5.0, K, S, Z Selectivity Class 5 5.0, K, S, Z Ifespan Operational 5 5.0, K, S, Z Decident of incoming supply Feratore 5.0, K, S, Z 5.0, K, S, Z Max. back-up fuse Selectivity Class 5.0, K, S, Z 5.0, K, S, Z Decident of incoming supply Feratore 5.0, K, S, Z 5.0, K, S, Z Max. back-up fuse Feratore 5.0, K, S, Z 5.0, K, S, Z Decident of incoming supply Feratore 5.0, K, S, Z 5.0, K, S, Z Max. for dimension Feratore Feratore 5.0, K, S, Z Selectivity Class Feratore 5.0, K, Z 5.0, K, Z Mouting width per pole Feratore Feratore 5.0, Feratore			V DC	60 (per pole)
CharacteristicRef of the second s	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Ag. back-up fuse Ag./gd <	Operational switching capacity		kA	7.5
Selectivip Class March Selectivip Class	Characteristic			B, C, D, K, S, Z
Ideam Instance Instance Instance Instance Breators Instance Instance Instance Inst	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 fincoming supply Image: Provide a sequired Mechanical sequired Standard front dimension Image: Provide a sequired Enclosure height mm \$ Mounting width per pole mm \$ Mounting Image: Provide a sequired Image: Provide a sequired Degree of Protection Image: Provide a sequired Image: Provide a sequired Terminal stop and bottom Image: Provide a sequired Image: Provide a sequired Terminal capacities Image: Provide a sequired Image: Provide a sequired	lifespan			
Mechanical mm 45 Standar front dimension mm 6 mm 0 Actosure height mm 0 <	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Degree of Protection EC Forminals top and bottom Forminal stop and bottom Terminal protection EC Forminals top and bottom Forminals top and bottom Terminal capacities Forminal capacities Forminal capacities Forminal capacities Terminal capacities Forminal Forminal capacities Forminal capacities Terminal capacities Forminal capacities Forminal capacities Forminal capacities Terminal capacities Forminal Forminal capacities Forminal capacities Terminal capacities Forminal capacities				as required
Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail IEC/EN 60715 top-hat rail Degree of Protection VMM VMM per pole Terminals top and bottom VMM VMM per pole Terminal capacities Mm Nm Impose terminals Terminal capacities Mm Nm Nm Intermination Mm <td< td=""><td>Mechanical</td><td></td><td></td><td></td></td<>	Mechanical			
Mounting width per pole Mounting 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 copacities IC/EN 60715 top-hat rail Terminal copacities IC/EN 60715 top-hat rail Interminal copacities Interminal copacities Interminal copacities Inter	Standard front dimension		mm	45
Mounting Image: Bit Protection	Enclosure height		mm	80
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom File Terminal protection File Terminal capacities File Imm ² 1×25 Imm ² 1×10 Terminal capacities File Imm ² 1×10	Mounting width per pole		mm	17.5
Terminals top and bottomImage: Second Se	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Image: second s	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities ma ² Imma mm ² Imma 1×25 Imma 1×25 Imma 2×10 Imma 1<10	Terminals top and bottom			Twin-purpose terminals
Image: second	Terminal protection			Finger and back-of-hand proof to BGV A2
Image:	Terminal capacities		mm ²	
Thickness of busbar material m			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

Te	echnical data for design verification			
	Rated operational current for specified heat dissipation	I _n	А	32
	Heat dissipation per pole, current-dependent	P _{vid}	W	0
	Equipment heat dissipation, current-dependent	P _{vid}	W	11.1

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
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)

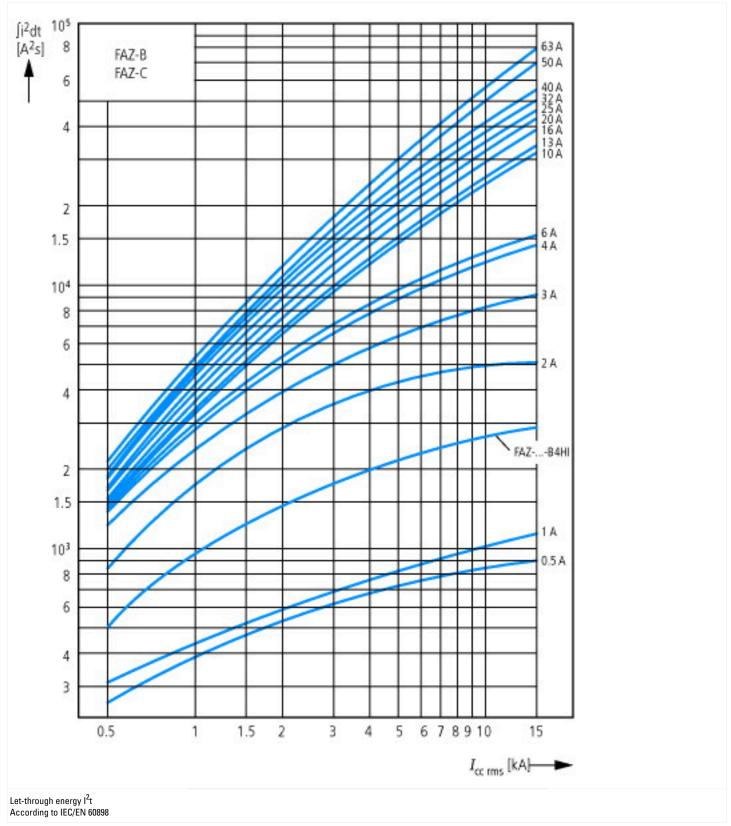
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

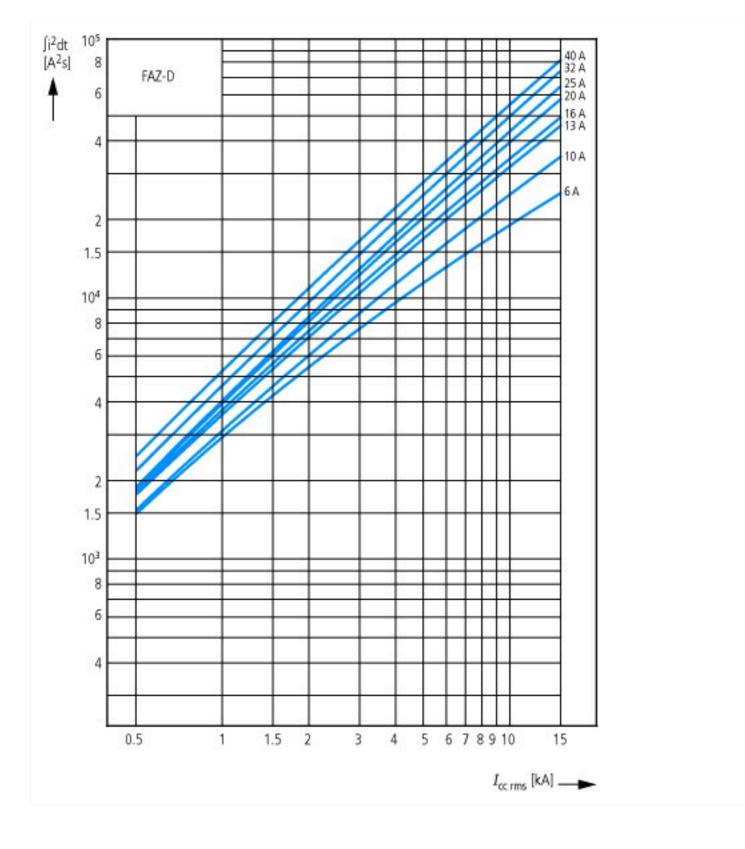
Release characteristic		D
Number of poles (total)		3
Number of protected poles		3
Rated current	А	32
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity 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

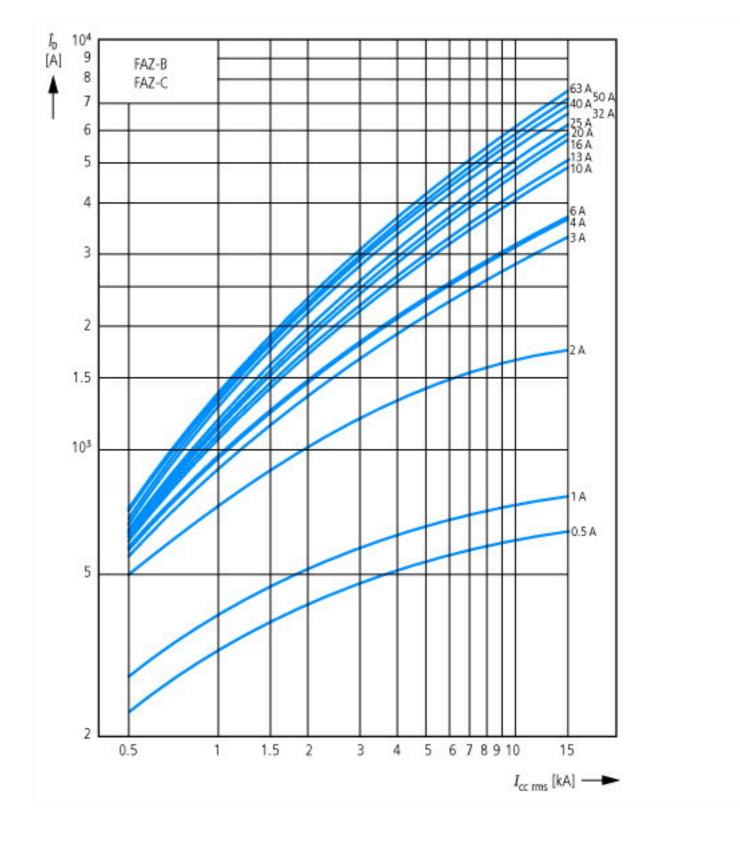
Additional equipment possible		Yes
Width in number of modular spacings		3
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

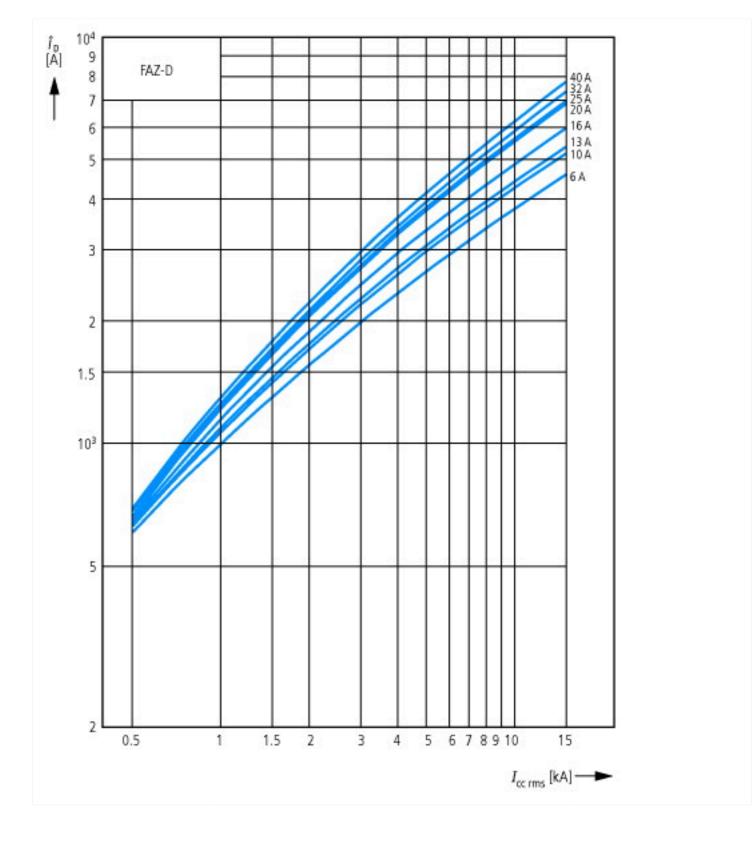
Approvals	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector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

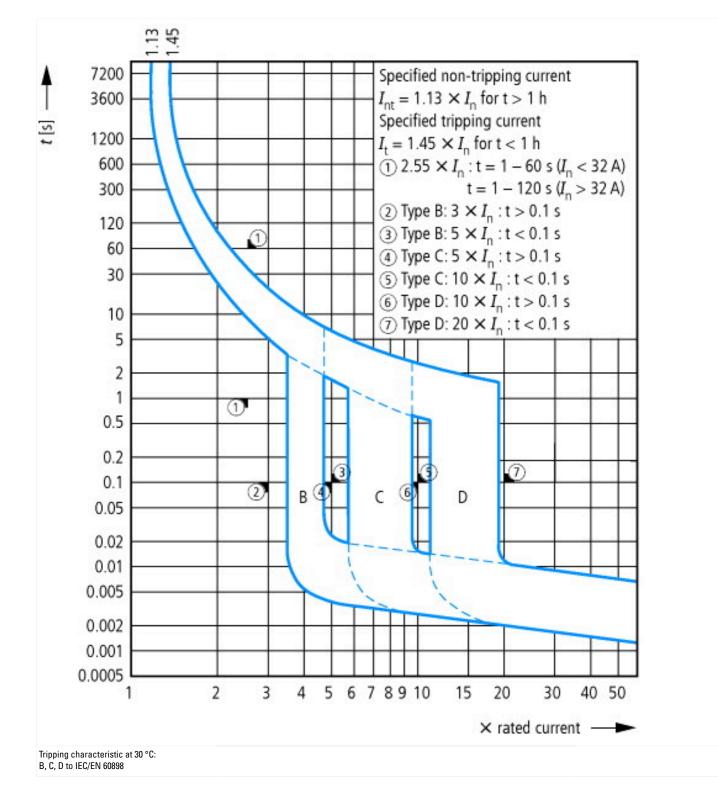
Characteristics



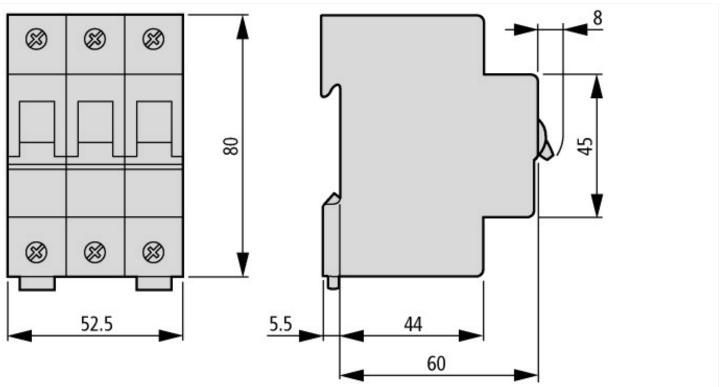








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker	
AWA1220-1755 Circiut-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf
Temperature dependency, derating	https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf