DATASHEET - FAZ-C3/2-RT

Miniature circuit breaker (MCB), 3A, 2p, C-Char, AC





Part no.FAZ-C3/2-RTCatalog No.102201Alternate CatalogFAZ-C3/2-RTNo.EL-Nummer(Norway)0001691797

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	I _n	А	3
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ-RT

Technical data

Animal of the second	Electrical			
Image: space of the space of	Standards			
Image: series of the series	Rated operational voltage	U _e	V	
Rated voltage according to IEC/EN 60947-2 Value 40 Rated voltage according to UL Value 600/277 Braked switching capacity acc. to IEC/EN 60947-2 Icu KA Breaking capacity according to UL Icu KA Breaking capacity according to UL Icu KA Characteristic Icu KA Selectivity Class Icu KA Ifespan Operations Icu Direction of incoming supply To selectivity Mounting width per pole Man Sole Mounting width per pole Man ICC No0715 top-hat rail Terminal protection Man ICC No0715 top-hat rail Terminal protection Man ICE No0715 top-hat rail Terminal protection Man ICC No0715 top-hat rail		U _e	V AC	277/480 Y
Rated voltage according to UL Vacult 800/777 Rated voltage according to UL Locult KA 5000000000000000000000000000000000000			V DC	60
Area of a constraint of	Rated voltage according to IEC/EN 60947-2	Un	V AC	440
Braking capacity according to UL In U(U489) Characteristic B, C, D Selectivity Class B, C, D Lifespan Poeration Lifespan Poeration Broction fincoming supply Poeration Mechanical Poeration Standard front dimension Image: Poeration of Incoming supply Mounting width per pole Image: Poeration of Incoming supply Mounting Image: Poeration of Incoming supply Mounting width per pole Image: Poeration of Incoming supply Mounting Image: Poeration of Incoming supply Terminal protection Image: Poeration of Incoming supply Terminal protection Image: Poeration of Incoming supply Terminal protection Image: Poeration of Incoming supply Tightning torque of fixing screws Image: Poeration of Incoming screws	Rated voltage according to UL	Un	V AC	480Y/277
Characteristic B, C, D Selectivity Class B, C, D Selectivity Class B, C, D Lifespan Operations B Direction of incoming supply Operations > 20000 Mechanical Image: Selectivity Class Selectivity Class Standard front dimension Image: Selectivity Class Selectivity Class Mounting width per pole Image: Selectivity Class Image: Selectivity Class Direction of incoming supply Image: Selectivity Class Image: Selectivity Class Selectivity Class Image: Selectivity Class Image: Selectivity Class Mounting width per pole Image: Selectivity Class Image: Selectivity Class Degree of Protection Image: Selectivity Class Image: Selectivity Class Terminal protection Image: Selectivity Class Image: Selectivity Class Tightening torque of fixing screws Image: Selectivity Class Image: Selectivity Class Tightening torque of fixing screws Image: Selectivity Class Image: Selectivity Class	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Selectivity Class Image: Selectivity Class Selecti	Breaking capacity according to UL		kA	10 (UL489)
Initialized in the second se	Characteristic			B, C, D
Lifespan Operations >00000 Direction of incoming supply is required Mechanical is required Standard front dimension image fmage Enclosure height image image Mounting width per pole image image Mounting image image Degree of Protection image image Terminal stop and bottom image image Terminal protection image image Tightening torque of fixing screws image image N/m image image N/m image image Tightening torque of fixing screws image image	Selectivity Class			3
Direction of incoming supply as required Mechanical mm 45 Standard front dimension mm 105 Enclosure height mm 17.7 Mounting width per pole mm 16C/EN 60715 top-hat rail Degree of Protection Feeder 120.1P40 (when fitted) Terminals top and bottom Feeder Finger and back-of-hand proof to BGV A2 Tightening torque of fixing screws N/m Singer and back-of-ham (25 b-in) N/m N/m Singer and back-of-ham (25 b-in)	lifespan			
Mechanical mm 45 Standard front dimension mm 105 Enclosure height mm 17.7 Mounting width per pole mm 17.7 Mounting Feed Potection Feed Potection Terminals top and bottom Feed Potection Feed Potection Terminal protection Feed Potection Finger and back-of-hand proof to BGV A2 Tightening torque of fixing screws Mm max. 2.4 Vision and bottom Mine Potection Mine Potection	Lifespan	Operations		> 20000
Standard front dimensionmm45Enclosure heightmm105Mounting width per polemm17.7MountingIC/EN 60715 top-hat railDegree of ProtectionICOICO/INPAGETerminals top and bottomICOICOTerminal protectionICOInpurpose terminalsTerminal protectionICOInpurpose terminalsTightening torque of fixing screwsICOInpurpose terminalsItightening torque of fixing screwsInpurpose terminalsItightening torque of fixing terminalsInpurpose terminalsItightening terminalsInpurpose terminalsItightening terminalsInpurpose terminalsItightening terminalsInpurpose terminals <td>Direction of incoming supply</td> <td></td> <td></td> <td>as required</td>	Direction of incoming supply			as required
Enclosure heightmm105Mounting width per polemm1.7MountingIC/EN 60715 top-hat railDegree of ProtectionICOPO0, IP40 (when fitted)Terminals top and bottomICOICOTerminal protectionICOICOTightening torque of fixing screwsICOICOServer of fixing screwsICOICOInternet of the screws<	Mechanical			
Mounting width per polemm1.7MountingEC/EN 60715 top-hat railDegree of ProtectionImmIEC/EN 60715 top-hat railTerminals top and bottomImmImmImmTerminal protectionImmImmImmTerminal protectionImmImmImmTightening torque of fixing screwsImmImmImmTightening torq	Standard front dimension		mm	45
MountingIC/EN 60715 top-hat railDegree of ProtectionIC/EN 60715 top-hat railTerminals top and bottomIC/EN 60715 top-hat railTerminal protectionIC/EN 60715 top-hat railTightening torque of fixing screwsIC/EN 60715 top-hat railTightening torque of fixing screwsIC/EN 60715 top-hat railIC/EN 6071	Enclosure height		mm	105
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Image: Comparison of the time of time of time of the time of time	Mounting width per pole		mm	17.7
Terminals top and bottom Image: Strain of the strain o	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2 Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #6 AWG: 4 Nm (36 lb-in)	Degree of Protection			IP20, IP40 (when fitted)
Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in)	Terminals top and bottom			Twin-purpose terminals
UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in)	Terminal protection			Finger and back-of-hand proof to BGV A2
Mounting position As required	Tightening torque of fixing screws		N/m	UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in)
	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	3
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	2.4

Static heat dissipation, non-current-dependent	$P_{\nu s}$	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
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

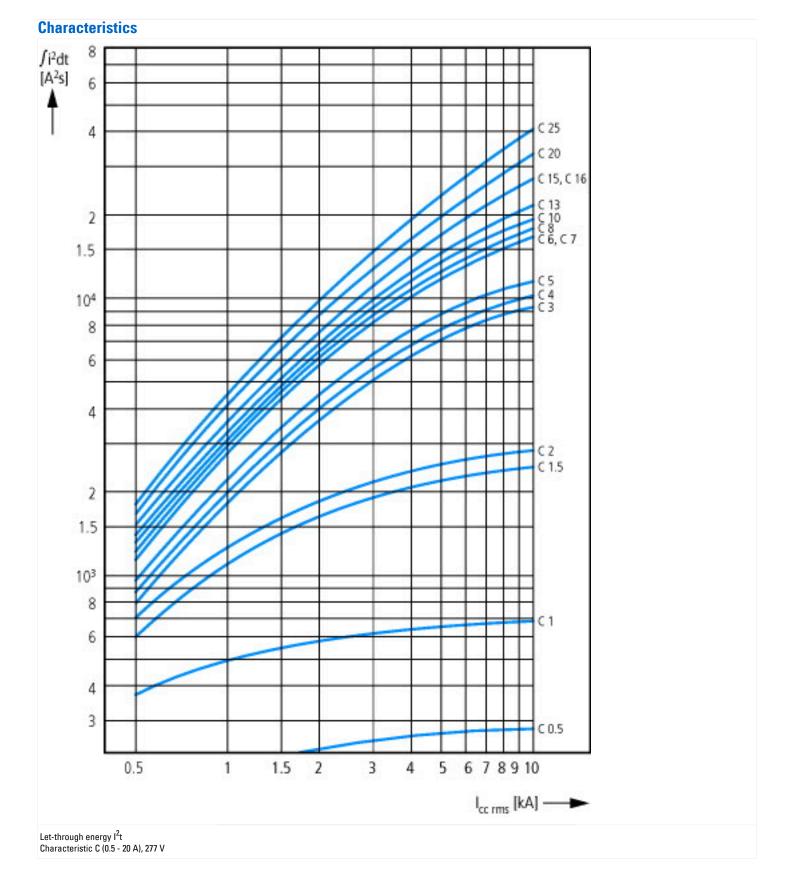
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

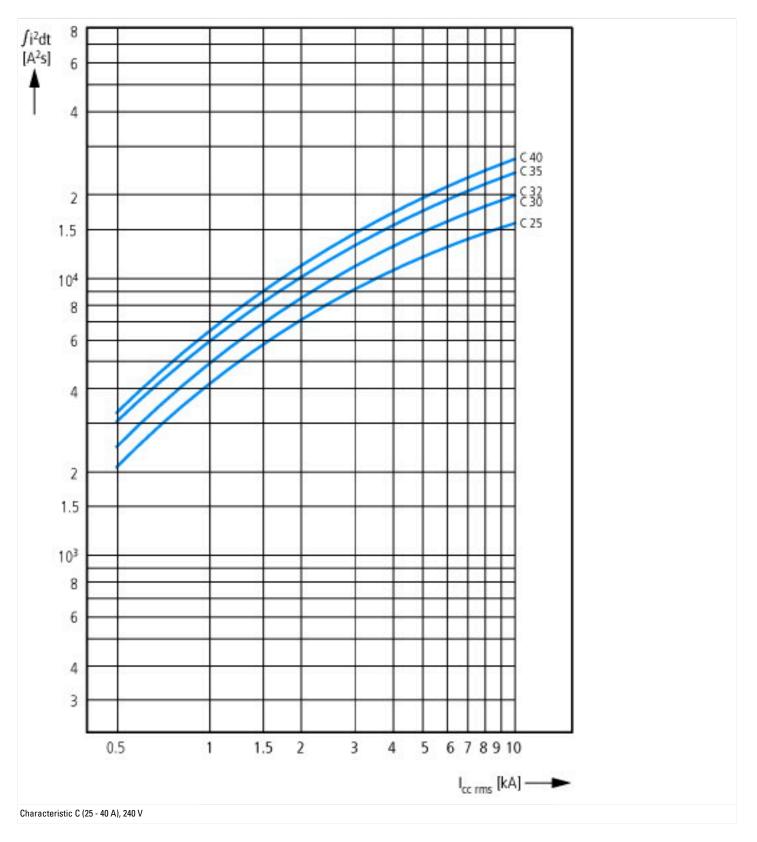
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic		C
Number of poles (total)		2
Number of protected poles		2
Rated current	А	3
Rated voltage	V	415
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	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
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		2
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm ²	1 - 25
Connectable conductor cross section solid-core	mm ²	1 - 25

Approvals Product Standards IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No. E235139 DIVQ UL Category Control No. 204453 CSA File No. 1432-01 CSA Class No. North America Certification UL listed, CSA certified Specially designed for North America Yes, suitable as BCPD Suitable for Feeder circuits, branch circuits Current Limiting Circuit-Breaker Yes Max. Voltage Rating ≤ 32 A Degree of Protection IEC: IP20, UL/CSA Type: -





Additional product information (links)

Temperature dependency, derating

https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ-NA-RT.pdf