DATASHEET - FAZ-C7/2-RT



Miniature circuit breaker (MCB), 7A, 2p, C-Char, AC

FAZ-C7/2-RT Part no. Catalog No. 102205 Alternate Catalog FAZ-C7/2-RT

EL-Nummer (Norway)

0001691801



Similar to illustration

Delivery program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			С
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	7
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ-RT

Technical data

Electrical

	2.000.100.			
Lead of voltage according to IEC/EN 60947-2 Un V AC 40 Rated voltage according to UL Un V AC 440 Rated switching capacity acc. to IEC/EN 60947-2 Icu KA 15 Breaking capacity according to UL KA 10 (UL489) Characteristic Selectivity Class 3, C, D Selectivity Class 3 3 Iffespan 20000 3 Lifespan 3 20000 Direction of incoming supply 3 3 Mechanical 3 4 Standard front dimension 3 4 Enclosure height 3 4 Mounting width per pole 3 4 Mounting width per pole 3 127.7 Mounting 127.7 129.1 P40 (when fitted) Terminals top and bottom 3 120.1 P40 (when fitted) Terminal protection 3 120.1 P40 (when fitted) Terminal protection 4 120.1 P40 (when fitted) Terminal protection 3 120.2 P40 (when	Standards			
Rated voltage according to IEC/EN 60947-2 Rated voltage according to UL Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity acc. to IEC/EN 6094-2 Rated switching capacity acc. to IEC/EN 6	Rated operational voltage	U _e	V	
Rated voltage according to IEC/EN 60947-2 Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity according to UL Rated switch capacity according to UL Rated Switc		U _e	V AC	277/480 Y
Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity according to UL Rated switching capacity accordinate according to UL Rated switching capacity acco			V DC	60
Rated switching capacity acc. to IEC/EN 60947-2 Icu KA 15 Breaking capacity according to UL KA 10 (UL489) Characteristic B, C, D B, C, D Selectivity Class S, C, D Lifespan Operations Some of the property of the	Rated voltage according to IEC/EN 60947-2	Un	V AC	440
Breaking capacity according to UL Characteristic Selectivity Class Ilifespan Lifespan Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting width per pole Mounting width per pole Terminals top and bottom Terminals top and bottom Terminals top and bottom Terminals tor and fixing screws When the same and t	Rated voltage according to UL	U_{n}	V AC	480Y/277
Characteristic Selectivity Class Ilfespan Lifespan Operations Operations Operations Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws B, C, D B,	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Selectivity Class Lifespan Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws Selectivity Class Degree of Fixed Screws N/m Mounting fixed Pack-of-hand proof to BGV A2 N/m max. 2-4 UI: #18-12 AWG: 2.4 Nm (25 lb-in) #6 AWG: 4.8 Nm (25 lb-in)	Breaking capacity according to UL		kA	10 (UL489)
Lifespan Operations > 20000 Direction of incoming supply as required Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Ereminals top and bottom Terminals top and bottom Terminal protection Tightening torque of fixing screws When the tight may be provided by the tight of the tight may be provided by the tight may be provided by the tight may be provided by the tight of the tight may be provided by the tight may be provid	Characteristic			B, C, D
Lifespan Operations > 20000 Direction of incoming supply as required Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection [P20, IP40 (when fitted)] Terminals top and bottom torque of fixing screws Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (25 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in)	Selectivity Class			3
Direction of incoming supply Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws Tightening torque of fixing screws Direction as a required mm 45 Enclosure height mm 105 mm 17.7 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals 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) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in)	lifespan			
Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Irwin-purpose terminals Terminal protection Tightening torque of fixing screws Mym 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)	Lifespan	Operations		> 20000
Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal protection Twin-purpose terminals 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 (25 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #10-8 AWG: 4 Nm (36 lb-in)	Direction of incoming supply			as required
Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Ireminals top and bottom Terminal protection Tightening torque of fixing screws Tightening torque of fixing screws Tightening torque of fixing screws Terminal protection Industry and back-of-hand proof to BGV A2 Tightening torque of fixing screws Tightening	Mechanical			
Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws Mounting Terminal protection Tightening torque of fixing screws Tightening torque of fixing s	Standard front dimension		mm	45
Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 4 Nm (36 lb-in)	Enclosure height		mm	105
Degree of Protection Terminals top and bottom Terminal protection Terminal protection Tightening torque of fixing screws Tightening t	Mounting width per pole		mm	17.7
Terminals top and bottom 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) #10-8 AWG: 4 Nm (36 lb-in)	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2 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)	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	Α	7	
Heat dissipation per pole, current-dependent	P _{vid}	W	0	
Equipment heat dissipation, current-dependent	P _{vid}	W	2.8	

Static heat dissipation, non-current-dependent	P_{vs}	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 switch gear must be observed. $\label{eq:continuous}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:continuous}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Pollution degree

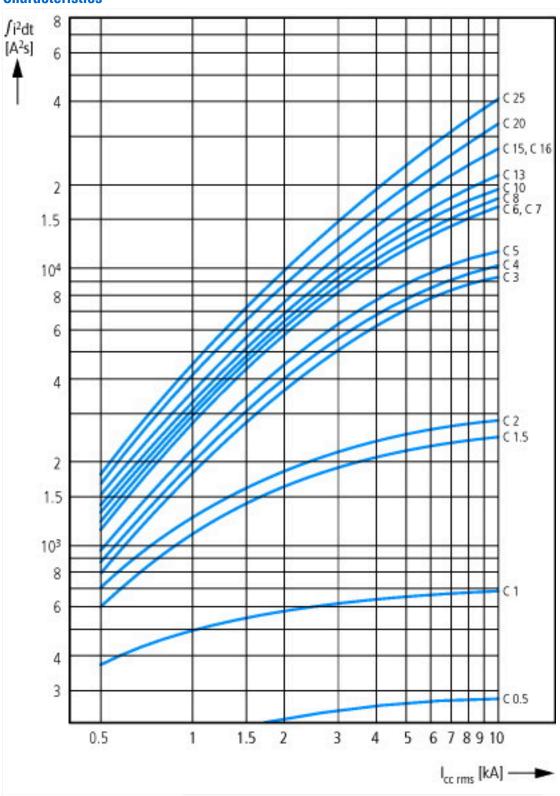
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)				
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])				
Release characteristic			С	
Number of poles (total)			2	
Number of protected poles			2	
Rated current		Α	7	
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	

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	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

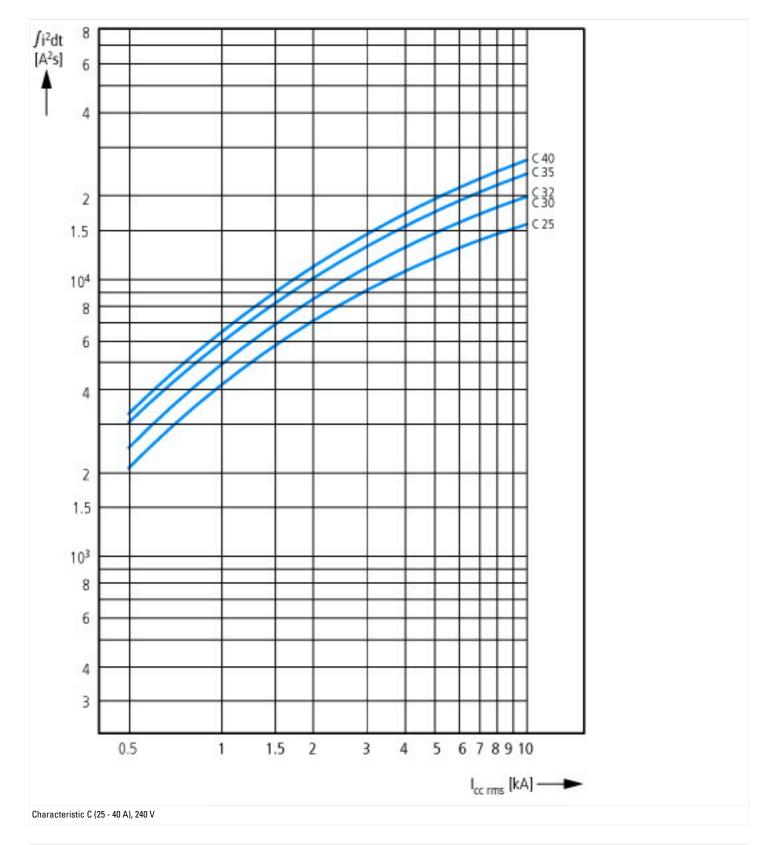
Approvals

Product Standards	IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking
UL File No.	E235139
UL Category Control No.	DIVQ
CSA File No.	204453
CSA Class No.	1432-01
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: -

Characteristics



Let-through energy I²t Characteristic C (0.5 - 20 A), 277 V



Additional product information (links)

Temperature dependency, derating

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