# **DATASHEET - FAZ-C35/2-NA**



### Miniature circuit breaker (MCB), 35 A, 2p, characteristic: C

1691604

FAZ-C35/2-NA

Part no. Catalog No. 102175 Alternate Catalog FAZ-C35/2-NA

**EL-Nummer** (Norway)



	gram

20			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			С
Application			Switchgear for export to North America (UL-listed)
Rated current	In	Α	35
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Product range			FAZ-NA

# **Technical data**

#### **Electrical**

210041041			
Standards			UL 489, CSA C22.2 No. 5 IEC 60947-2
Rated operational voltage	U <sub>e</sub>	V	
	U <sub>e</sub>	V AC	240
		V DC	60
Rated voltage according to IEC/EN 60947-2	Un	V AC	440
Rated voltage according to UL	Un	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Breaking capacity according to UL		kA	10 (UL489)
Characteristic			B, C, D
Selectivity Class			3
lifespan			
Lifespan	Operations		> 20000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	105
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Mechanical		
Standard front dimension	mm	45
Enclosure height	mm	105
Mounting width per pole	mm	17.7
Mounting		IEC/EN 60715 top-hat rail
Degree of Protection		IP20, IP40 (when fitted)
Terminals top and bottom		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 (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 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	35	
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	0	
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	7.4	

Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	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. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
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)

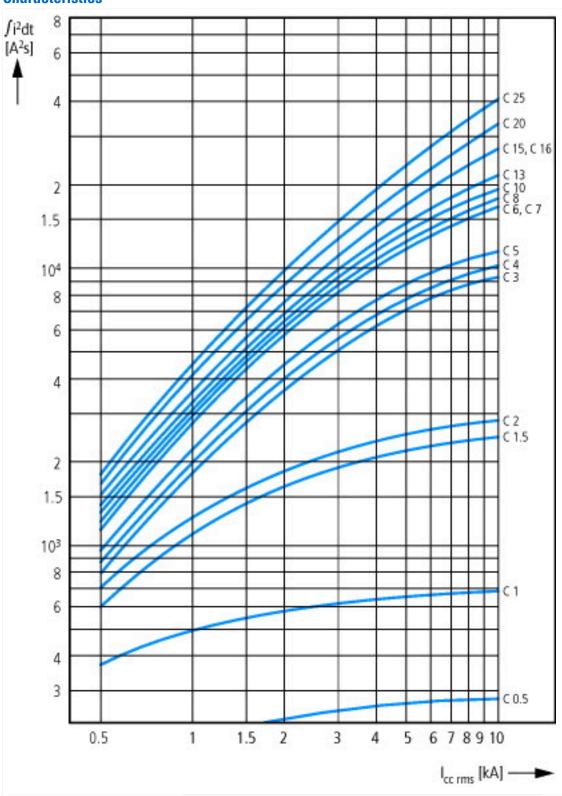
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])			
	С		
	2		
	2		
А	A 35		
V	V 415		
V	V 440		
kV	kV 4		
kA	kA 0		
kA	kA 0		
kA	kA 15		
kA	kA 15		
	AC		
Hz	Hz 50 - 60		
	3		
	No		
	No		
	3		
	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	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

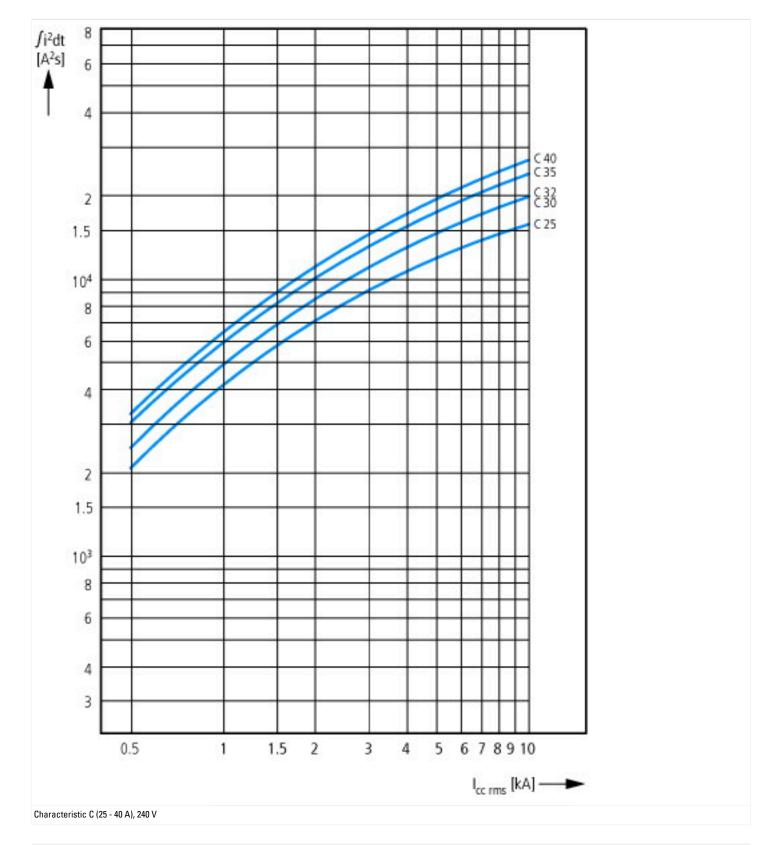
# **Approvals**

UL File No.  UL Category Control No.  CSA File No.  CSA Class No.  North America Certification  Specially designed for North America  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  E235139  DIVQ  DIVQ  CW453  CW453  LUL listed, CSA certified  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  >32 A	• •	
UL Category Control No.  CSA File No.  CSA Class No.  North America Certification  Specially designed for North America  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  DIVQ  1432-01  1432-01  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  32 A	Product Standards	IEC/EN 60947-2; EN 45545-2; IEC 61373; UL 489; CSA-C22.2 No. 5-09; CE marking
CSA File No.  CSA Class No.  North America Certification  Specially designed for North America  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  204453  204453  Lulisted, CSA certified  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  32 A	UL File No.	E235139
CSA Class No.  North America Certification  Specially designed for North America  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  1432-01  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  > 32 A	UL Category Control No.	DIVQ
North America Certification  Specially designed for North America  Suitable for  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  > 32 A	CSA File No.	204453
Specially designed for North America  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  >32 A	CSA Class No.	1432-01
Suitable for Feeder circuits, branch circuits  Current Limiting Circuit-Breaker Yes  Max. Voltage Rating > 32 A	North America Certification	UL listed, CSA certified
Current Limiting Circuit-Breaker  Max. Voltage Rating  Yes  > 32 A	Specially designed for North America	Yes, suitable as BCPD
Max. Voltage Rating > 32 A	Suitable for	Feeder circuits, branch circuits
	Current Limiting Circuit-Breaker	Yes
Degree of Protection IEC: IP20, UL/CSA Type: -	Max. Voltage Rating	> 32 A
	Degree of Protection	IEC: IP20, UL/CSA Type: -

## **Characteristics**



Let-through energy I<sup>2</sup>t Characteristic C (0.5 - 20 A), 277 V



## **Additional product information (links)**

Temperature dependency, derating

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