

Over current switch, 20A, 3p, D-Char, AC

Part no. Article no. Catalog No. FAZ-D20/3-NA 102271 FAZ-D20/3-NA



Similar to illustration

#### **Delivery programme**

Basic function			Miniature circuit breakers
Number of poles			3 pole
Tripping characteristic			D
Application			Switchgear for export to North America (UL-listed)
Rated current	In	А	20
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ-NA

# Technical data

Electrical			
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	277/480 Y
		V DC	48
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Characteristic			B, C, D
Selectivity Class			3
Lifespan	Operations		> 20000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	105
Terminal protection			Finger and back-of-hand proof to BGV A2
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
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	20
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.5
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	-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 sulation materials to normal heat	rt call Kl	MPart	S.com postor ago - go of the second

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 6.0**

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@ss8.1-27-14-19-01 [AAB905011])

Release characteristic		D
Number of poles (total)		3
Number of protected poles		3
Nominal rated current	А	20
Nominal rated voltage	V	415
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
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		No
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		3
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

**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 For Sales and Support call KMPart ֍֎֎ՠֈ֎(֎֎֎) 595-9616		

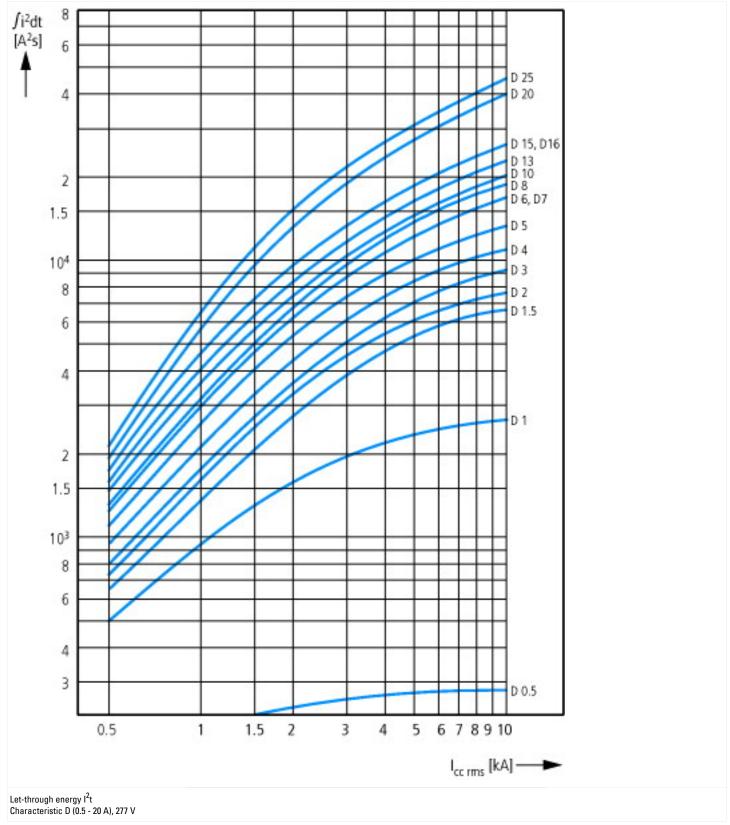
Suitable for
Current Limiting Circuit-Breaker
Max. Voltage Rating
Degree of Protection
Degree of Freedom

Feeder circuits, branch circuits

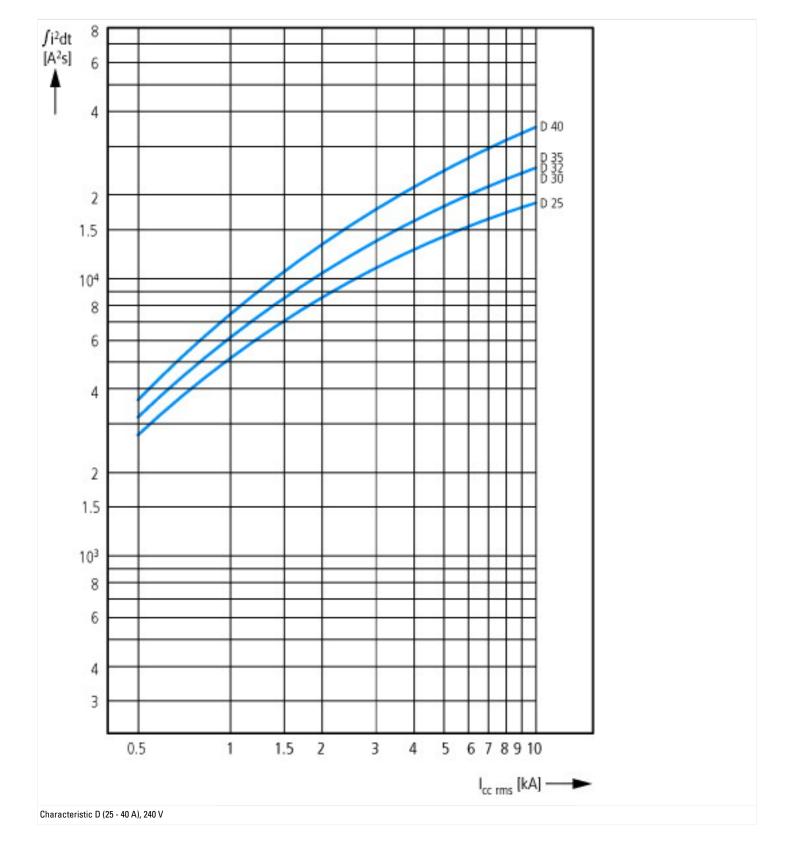
Yes ≤ 32 A

IEC: IP20, UL/CSA Type: -

#### **Characteristics**



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