

Over current switch, 30A, 3p, D-Char, AC

Part no. Article no. Catalog No. FAZ-D30/3-RT 102313 FAZ-D30/3-RT



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	I <sub>n</sub>	А	30
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ-RT

#### **Technical data**

StandardsII<				
Rate operational voltage     Un     Ve     EC 60947-2       Rate operational voltage     Un     V	Electrical			
Number of the second	Standards			
VDC     8       Rated switching capacity acc. to IEC/EN 60947-2     KA     5       Characteristic     KA     5       Selectivity Class     B, C, D     5       Lifespan     Operations     2000       Direction of incoming supply     sequired     sequired       Mechanical     Management     Selectivity Class     sequired       Terminal protection     Management     Selectivity Class     sequired       Mounting     Management     Selectivity Class     Selectivity Class     Selectivity Class       Selectivity Class     Management     Selectivity Class     Selectivi	Rated operational voltage	Ue	V	
Rated switching capacity acc. to IEC/EN 60947-2     KA     I       Characteristic     B, D     B, D       Selectivity Class     B, D     Selectivity Class       Lifespan     Operations     2000       Direction of incoming supply     Tomato     sequired       Mechanical     Image: Security Class     sequired       Forein and front dimension     M     M       Forein and protection     M     M       Mounting width per pole     M     M       Mounting     M     I/A       Nounting     M     I/A       Mounting for Gront		U <sub>e</sub>	V AC	277/480 Y
Characteristic   B, C, D     Selectivity Class   3     Lifespan   Operations   > 20000     Direction of incoming supply   as required     Mechanical   mm   45     Standard front dimension   mm   105     Terminal protection   mm   105     Mounting width per pole   mm   17.7     Mounting   1.7   105     Pagee of Protection   E/E Mounting   E/E Mounting     Degree of Protection   E/E Mounting   102     Pagee of Protection   E/E Mounting   E/E Mounting     Terminals top and bottom   Munting   102     Degree of Protection   E/E Mounting   102     Degree of Protection   E/E Mounting   102     Degree of Protection   Munting Wolth per pole   Intervine Mounting     Degree of Protection   Munting Wolth per pole   Intervine Mounting     Degree of Protection   Munting Wolth per pole   Intervine Mounting Wolth per pole     Degree of Protection   Munting Wolth per pole   Intervine Mounting Wolth per pole     Degree of Protection   Munting Wolth per pole   Intervin			V DC	48
Selectivity Class   Image: Selectivity Class   3     Lifespan   Operations   > 2000     Direction of incoming supply   as required     Mechanical   Image: Selectivity Class   Image: Selectivity Class     Standard front dimension   Image: Selectivity Class   Image: Selectivity Class     Enclosure height   Image: Selectivity Class   Image: Selectivity Class     Mounting width per pole   Image: Selectivity Class   Image: Selectivity Class     Mounting   Image: Selectivity Class   Image: Selectivity Class     Degree of Protection   Image: Selectivity Class   Image: Selectivity Class     Terminals top and bottom   Image: Selectivity Class   Image: Selectivity Class	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Lifespan   Operations   >2000     Direction of incoming supply   as required     Mechanical   mm   5     Standard front dimension   mm   105     Terminal protection   mm   105     Mounting width per pole   mm   17.7     Mounting   Fer Gord State   Fer Gord State     Degree of Protection   Fer Gord State   Fer Gord State     Per main stop and bottom   Fer Gord State   Fer Gord State     Mounting   Fer Gord State   Fer Gord State     Per main stop and bottom   Fer Gord State   Fer Gord State     Mounting   Fer Gord State   Fer Gord State  <	Characteristic			B, C, D
Direction of incoming supply   as required     Mechanical   Mechanical     Standard front dimension   mm   45     Enclosure height   mm   105     Terminal protection   mm   103     Mounting width per pole   mm   17.7     Digree of Protection   Mechanical   120, P40 (when fitted)     Terminals top and bottom   minup width per pole   120, IP40 (when fitted)	Selectivity Class			3
Mechanical   Mechanical     Standard front dimension   mm   45     Enclosure height   mm   105     Terminal protection   mm   1.7     Mounting width per pole   mm   1.7     Degree of Protection   Percention   Percention     Terminals top and bottom   Percention   Percention	Lifespan	Operations		> 20000
Standard front dimension   mm   45     Enclosure height   mm   105     Terminal protection   mm   Finger and back-of-hand proof to BGV A2     Mounting width per pole   mm   1.7     Mounting   EC/EN 60715 top-hat rail     Degree of Protection   P20, IP40 (when fitted)     Terminals top and bottom   Twin-purpose terminals	Direction of incoming supply			as required
Enclosure height   mm   ibititititititititititititititititititi	Mechanical			
Terminal protection Finger and back-of-hand proof to BGV A2   Mounting width per pole mm 1.7.   Mounting IEC/EN 60715 top-hat rail   Degree of Protection IE20, IP40 (when fitted)   Terminals top and bottom Twin-purpose terminals	Standard front dimension		mm	45
Mounting width per pole mm T.7   Mounting IEC/EN 60715 top-hat rail   Degree of Protection IEC/EN 60715 top-hat rail   Terminals top and bottom Imm	Enclosure height		mm	105
Mounting IEC/EN 60715 top-hat rail   Degree of Protection IP20, IP40 (when fitted)   Terminals top and bottom Image: Additional addition a	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection IP20, IP40 (when fitted)   Terminals top and bottom Twin-purpose terminals	Mounting width per pole		mm	17.7
Terminals top and bottom Twin-purpose terminals	Mounting			IEC/EN 60715 top-hat rail
	Degree of Protection			IP20, IP40 (when fitted)
Mounting position As required	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	А	30
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	8.1
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 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 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	A	30
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 StandardsIEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE markingUL File No.E35139UL Category Control No.INOCSA File No.INOCSA File No.1432-01North America CertificationINOSpecially designed for North AmericaINOSpecially designed for North AmericaINOInternet </th <th>· · · · · · · · · · · · · · · · · · ·</th> <th></th>	· · · · · · · · · · · · · · · · · · ·	
UL Category Control No. DVQ   CSA File No. 204453   CSA Class No. 1432-01   North America Certification CSA Class No.	Product Standards	IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking
CSA File No. 204453   CSA Class No. 1432-01   North America Certification CSA Certified	UL File No.	E235139
CSA Class No. 1432-01   North America Certification Listed, CSA certified	UL Category Control No.	DIVQ
North America Certification UL listed, CSA certified	CSA File No.	204453
	CSA Class No.	1432-01
Specially designed for North America Yes, suitable as BCPD	North America Certification	UL listed, CSA certified
	Specially designed for North America	Yes, suitable as BCPD

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

Feeder circuits, branch circuits

Yes ≤ 32 A

IEC: IP20, UL/CSA Type: -

### **Characteristics**



