DATASHEET - FBSMV-63/2/003-A

Part no. Catalog No.

No.



Residual-current circuit breaker trip block for FAZ, 63A, 2p, 30mA, type A

FBSMV-63/2/003-A 170208 Alternate Catalog FBSMV-63/2/003-A



Similar to illustration

Delivery program

Basic function			Add-on residual current protection unit
Number of poles			2 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	I _n	А	63
Rated short-circuit strength	I _{cn}	kA	same as connected FAZ up to max. 10
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Туре А
Tripping		s	non-delayed
Product range			FBSmV
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			

Technical data

Electrical			
Rated frequency	f	Hz	50
Sensitivity			Pulse-current sensitive
Rated current	I _n	А	63
Mechanical			
Standard front dimension		mm	45
Device height		mm	90
Built-in width		mm	70 (2TE)
Mounting			Permanent screw connection with FAZ
Degree of Protection			IP20, IP40 with suitable enclosure
Terminals top and bottom			Lift terminals
Terminal protection			DGUV VS3, EN 50274
Thickness of busbar material		mm	0.8 - 2
Admissible ambient temperature range		°C	-25 - +40
Permissible storage and transport temperatures		°C	-35 - +60
Climatic proofing			25-55°C/90-95% relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	17
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	40
			Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C

C/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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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) / Residual current circuit breaker (RCCB) (EC000003)

lectRest10.01-27-14-22-01 (AABS90014) Image: Status St			
Ander oving and	Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss10.0.1-27-14-22-01 [AAB906014])		
Rated current A A Rated functurent MA 3 Rated functurent MA 3 Rated insulation voltage Uinp 40 40 Rated insulation voltage Uinp IN rail IN rail Mounting method M No No Selective protection MO No No Short-tircuit breaking capacity (lew) MA 0 No Surg current capacity (lew) MA 0 No Additional equipment possible MA 0 No Vith interlocking device MA 0 No Degree of protection (IP) MA MA No Multi in number of modular spacings MA No No Built-in depth MA MA MA No Anbient temperature during operating MA MA MA No beint ettemperature during operating </td <td>Number of poles</td> <td></td> <td>2</td>	Number of poles		2
Rated fault current mA 0 Rated fault current MA 0 Rated fault current 40 0 Rated fault current voltage Uimp V 40 Mounting method IN rail IN rail Leakage current type No No Selective protection K No Short-tircuit breaking capacity (low) KA 0 Surge current capacity KA 0 Frequency KA 0 Additional equipment possible KA 0 With interfocking device KA 0 Buil-ti depth To Selective protection (IP) With in number of modular spacings Min 120 Buil-ti depth To 120 Anbient temperature during operating To 120 Pollution degree To 120 120 Pollution degree To 120 120 Roment and meter during operating To 120 120 Roment and temperature during operating To 120 120 Roment and temperature	Rated voltage	V	240
Rated insulation voltage Uimp V 40 Rated insulation voltage Uimp V 40 Mounting method V 40 Leakage current type IN rail IN rail Selective protection No No Short-tire delayed tripping No No Stort-circuit breaking capacity (Icov) KA 0 Surge current capacity KA 0 Kittional equipment possible KA 0 With interlocking device V KA 0 Built-in dept Mo V V V Motint temperature during operating Mo V V V V V Aubient temperature during operating Mo Mo V	Rated current	А	63
Rate dimpulse withstand voltage Uimp KV 4 Mounting method DIN rail Leakage current type A Selective protection KV No Short-time delayed tripping KA No Short-time delayed tripping KA O Surge current capacity (low) KA O Surge current capacity KA O Yeequency KA O Additional equipment possible KA So With interlocking device Yee So Dagree of protection (IP) Tm Yee Muith intemperature during operating Tm To Anbient temperature during operating Tm To Pollution degree Tm To	Rated fault current	mA	30
Mounting method Mounting method Din rail Leakage current type A A Selective protection Monting method No Short-time delayed tripping Monting method No Short-time delayed tripping Monting method No Stort-time delayed tripping Monting method Monting method Store current capacity Ma 0 Frequency Monting method Monting method Additional equipment possible Monting method Yes Built-interporter for Modular spacings Monting method Monting method Built-in depth Monting method Monting method Store Monting method Pollution degree Monting method Monting method Store Monting method	Rated insulation voltage Ui	V	440
Leakage current type Leakage current type Leakage current type Selective protection Short-circuit breaking capacity (lcw) Short-circuit breaking capacity (lcw) Short-circuit breaking capacity (lcw) Surge current capacity (lcw) Surge current capacity Su	Rated impulse withstand voltage Uimp	kV	4
Selective protection Mode Selective protection No Short-time delayed tripping No Surge current capacity (lcw) KA 0 Surge current capacity KA 0 Frequency KA 0 Additional equipment possible So So With interlocking device So So Degree of protection (IP) So Yo With in number of modular spacings So Yo Bult-in depth mm 10 Ambient temperature during operating So Yo Pollution degree So So 25 Pollution degree mm 10 Runde conductor cross section multi-wired mm 20	Mounting method		DIN rail
Short-time delayed tripping Image: state of the st	Leakage current type		Α
Short-circuit breaking capacity (lcw) kA 0 Surge current capacity kA 0.25 Frequency 50 Hz 50 Hz Additional equipment possible Yes 100 Hz With interlocking device 100 Hz 100 Hz Degree of protection (IP) 100 Hz 100 Hz With in number of modular spacings 100 Hz 100 Hz Built-in depth Mm 70 Hz Anbient temperature during operating 100 Hz 100 Hz Pollution degree 100 Hz 100 Hz 100 Hz 100 Hz Pollution degree 100 Hz 100 Hz	Selective protection		No
Surge current capacity KA 0.25 Frequency 50 Hz Additional equipment possible Yes With interlocking device Yes Degree of protection (IP) Image: Section (IP) With in number of modular spacings Image: Section (IP) Anbient temperature during operating Image: Section (IP) Pollution degree Image: Section (IP) Pollution (IP) Image: Se	Short-time delayed tripping		No
Frequency 50 Hz Additional equipment possible Yes With interlocking device Yes Degree of protection (IP) IP0 With in number of modular spacings Imm Built-in depth mm Ambient temperature during operating Imm Pollution degree Imm ² Imm ² N5 - S3	Short-circuit breaking capacity (Icw)	kA	0
Additional equipment possible Yes With interlocking device Yes Degree of protection (IP) IP20 With in number of modular spacings Imm Built-in depth mm Ambient temperature during operating Imm Pollution degree Imm Image: Pollution degree Imm Image: Pollution degree Imm Image: Pollution degree Imm Image: Pollution degree Imm ²	Surge current capacity	kA	0.25
With interlocking deviceYesDegree of protection (IP)IP20Width in number of modular spacingsImmBuilt-in depthImmAmbient temperature during operatingCPollution degreeImmConnectable conductor cross section multi-wiredImmImmN5 - 35	Frequency		50 Hz
Degree of protection (IP) IP20 Width in number of modular spacings IP20 Built-in depth Imm Ambient temperature during operating Imm Pollution degree Imm Connectable conductor cross section multi-wired Imm ²	Additional equipment possible		Yes
Width in number of modular spacings mm full Built-in depth mm full Ambient temperature during operating °C 25 - 40 Pollution degree Imm ² 0.75 - 35	With interlocking device		Yes
Built-in depth mm 70 Ambient temperature during operating °C -25 - 40 Pollution degree 2 2 Connectable conductor cross section multi-wired mm ² 0.75 - 35	Degree of protection (IP)		IP20
Ambient temperature during operating°C°25 - 40Pollution degree2Connectable conductor cross section multi-wiredmm²0.75 - 35	Width in number of modular spacings		4
Pollution degree 2 Connectable conductor cross section multi-wired mm ²	Built-in depth	mm	70
Connectable conductor cross section multi-wired mm ² 0.75 - 35	Ambient temperature during operating	°C	-25 - 40
	Pollution degree		2
Connectable conductor cross section solid-core mm ² 0.75 - 35	Connectable conductor cross section multi-wired	mm²	0.75 - 35
	Connectable conductor cross section solid-core	mm²	0.75 - 35

