Miniature circuit breaker (MCB), 15 A, 1p, characteristic: C, DC



Part no. FAZ-C15/1-NA-DC

113761

EL Number 1691691

(Norway)

Part no. FAZ-1AN-DC MCB Part no. FAZ-1AN-DC MCB Part no. FAZ-1AN-DC MCB Part no. Part no. Part no. Product Length/Depth 106 millimetre Product Length/Depth 106 millimetre Product Length/Depth 17.7 millimetre Product Vedith 17.7 millimetre Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Product Tradenane Produc	(NOTWay)	
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Product width 17.7 millimetre Product weight 6.127 Megram Compliances Rels Candom Certifications 11.88 CSA 2227 No. 5 (ES 81737) (EV 8545-2) Product Tindename \$ET 68.81737 (EV 8545-2) Product Tindename MCB Application MCB MCB MCB Product Tindename Switchgas for expent to North America (UI-listed) Application of pales (Intail) 1 Number of pales (Intail) 1 Number of pales (Intail) 1 Product Tindename 0 Combinedate (Intail) 1 Product Tindename 0 Combinedate (Intail) 1 Product Tindename 0 Commercial Tindename		
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Product Sub Type None Delivery program Switchgear for export to North America (UL-isted) Application Switchgear for export to North America (UL-isted) Number of poles (total) 1 Number of poles (protected) 1 Richard polar polar characteristic C Amperage Rating 15 A Type FAZ DC Ministruc circuit breaker Technical Data - Electrical DC Voltage type DC Voltage type DC Rated operational voltage (Ue) - max 250 V DC Rated simplies withstand voltage (Ul) max 440 V Rated insulation voltage (Ul) mp 4 kV Frequency rating - min 50 Hz Frequency rating - min 60 Hz Rated switching capacity (IEC/EN 80947-2) 10 kA Rated switching capacity (IEC/EN 80947-2) at 200 V 0 kA Rated short-circuit breaking capacity (IEC/EN 80947-2) at 400 V 0 kA Rated short-circuit breaking capacity (IEC/EN 80947-2) at 400 V 0 kA Rated short-circuit breaking capacity (IEC/EN 80947-2) at 400 V 0 kA Rated short-circuit breaking capacity (IEC/	Product Tradename	xEffect - FAZ-NA-DC
Delivery program Application Application Application Number of poles (total) Number of poles (total) 1 Tripping characteristic C Release characteristic Amperage Riting Type Type Technical Data - Electrical Voltage type Voltage ring at DC Rated operational voltage (Ue) - max Rated insulation voltage (Ui) Rated insulation voltage (Ui) Rated short-circuit breaking capacity (EE 08947-2) at 200 V Rated short-circuit breaking capacity (EE 0894	Product Type	MCB
Application Number of poles (total) 1 1 Triping characteristic Release characteristic Release characteristic Amperage Rating Type FECHICAL DELECTICAL Voltage type Voltage type Voltage type Voltage type Voltage type Voltage type Rated operational voltage (Ue) - max Rated operational voltage (Uimp) Frequency rating - min Frequency rating - min Frequency rating - min Frequency rating - min Frequency rating - pank Rated short-circuit breaking capacity (EK 08987-2) at 230 V Rated short-circuit breaking capacity (EK 08987-2) at 230 V Rated short-circuit breaking capacity (EK 08987-2) at 230 V Rated short-circuit breaking capacity (EE 0898	Product Sub Type	None
Number of poles Single-pole Number of poles (total) 1 Number of poles (total) 1 Tripping characteristic C Release characteristic C Amperage Rating 15 A Type AFZ-DC Ministure circuit broaker Fechnical Data - Electrical DC Voltage type DC Voltage rating at DC 280 V DC Rated operational Voltage (Uo) -max 280 V D Rated impulse withstand voltage (Uimp) 4kV Frequency rating - min 50 Hz Frequency rating - max 60 Hz Rated switching capacity (EC/EN 80947-2) 10 NA Rated short-circuit breaking capacity (EN 80989) at 200 V 0 NA Rated short-circuit breaking capacity (EN 80989) at 400 V 0 NA Rated short-circuit breaking capacity (EN 80989) at 400 V 10 NA Rated short-circuit breaking capacity (EC 80947-2) at 400 V 10 NA Rated short-circuit breaking capacity (EN 60989-2) at 400 V 10 NA Rated short-circuit breaking capacity (EN 60989-2) at 400 V 10 NA Rated short-circuit breakin	Delivery program	
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Number of poles (protected)	Number of poles	Single-pole
Tripping characteristic Release characteristic Amperage Rating Type RAZ-DC Miniature circuit breaker Technical Data - Electrical Voltage type Voltage rating at DC Rated operational voltage (Ue) - max Rated insulation voltage (Ue) - max Rated insulation voltage (Uimp) Frequency rating - min Frequency rating - max Rated switching capacity (IEC 68947-2) Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Rated short-circuit breaking capacity (IEC 68947-2) at 400 V Quervoltage category III Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Buil-in dupth Degree of protection Pi20 Connectable conductor cross section (solid-core) - min	Number of poles (total)	1
Release characteristic Amperage Rating Type FAZ-DC Miniature circuit breaker Fochnical Data - Electrical Voltage type Voltage type Voltage rating at DC Rated operational voltage (Ue) - max Rated insulation voltage (Ui) Rated insulation voltage (Uimp) Frequency rating - min Frequency rating - min Frequency rating - min Rated switching capacity (EC/EN 60947-2) Rated switching capacity (EC/EN 60989) at 230 V Rated short- circuit breaking capacity (EC 60947-2) at 230 V Rated short- circuit breaking capacity (EC 60947-2) at 400 V Quervoltage catagory Follution degree Fechnical Data - Mechanical With in number of modular spacings Built-in depth Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - mia Connectable	Number of poles (protected)	1
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Technical Data - Electrical Voltage type Coc Voltage rating at DC Rated operational voltage (Ue) - max Rated insulation voltage (Ui) Rated woltage (Uimp) Frequency rating - min Frequency rating - min Rated short-circuit breaking capacity (EN 80898) at 230 V Rated short-circuit breaking capacity (EN 80898) at 400 V Rated short-circuit breaking capacity (EN 60947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 230 V Rated short-circuit breaking capacity (EC 80947-2) at 400 V Overvoltage category Ill Pollution degree Technical Data - Mechanical Width in number of modular spacings I 1 Built-in depth Degree of protection P20 Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max Connectable conductor cross section (multi-wired) - min Timm³ Connectable conductor cross section (multi-wired) - min	Amperage Rating	15 A
Voltage rating at DC Rated operational voltage (Ue) - max Rated insulation voltage (Uii) Rated insulation voltage (Uimp) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max Rated switching capacity (IEC/EN 60947-2) Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category Pollution degree Technical Data - Mechanical Width in number of modular spacings Built-in depth Pogree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max Connectable conductor cross section (multi-wired) - min I mm² Connectable conductor cross section (multi-wired) - min I mm² Connectable conductor cross section (multi-wired) - min	Туре	
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Frequency rating - min Frequency rating - max Rated switching capacity (IEC/EN 60947-2) Rated short-circuit breaking capacity (EN 60898) at 230 V Rated short-circuit breaking capacity (EN 60898) at 400 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 200 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category III Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Lipzo Connectable conductor cross section (solid-core) - mix Connectable conductor cross section (solid-core) - max Connectable conductor cross section (multi-wired) - min 50 Hz 10 kA	Rated insulation voltage (Ui)	440 V
Frequency rating - max Rated switching capacity (IEC/EN 60947-2) Rated short-circuit breaking capacity (EN 60989) at 230 V Rated short-circuit breaking capacity (EN 60989) at 400 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category Follution degree Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max Connectable conductor cross section (multi-wired) - min 1 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Rated impulse withstand voltage (Uimp)	4 kV
Rated switching capacity (IEC/EN 60947-2) Rated short-circuit breaking capacity (EN 60898) at 230 V Rated short-circuit breaking capacity (EN 60898) at 400 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category Pollution degree Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Pegee of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max Connectable conductor cross section (multi-wired) - min 10 kA	Frequency rating - min	50 Hz
Rated short-circuit breaking capacity (EN 60898) at 230 V Rated short-circuit breaking capacity (EN 60898) at 400 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category III Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min Timm² Connectable conductor cross section (multi-wired) - min Degree of conductor cross section (multi-wired) - min Timm² Timm²	Frequency rating - max	60 Hz
Rated short-circuit breaking capacity (EN 60898) at 400 V Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min Timm² Connectable conductor cross section (multi-wired) - min 1 mm² 1 mm² 1 mm²	Rated switching capacity (IEC/EN 60947-2)	10 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category III Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min Connectable conductor cross section (multi-wired) - min 1 mm² 1 mm² 1 mm² 1 mm²	Rated short-circuit breaking capacity (EN 60898) at 230 V	0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V Overvoltage category III Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings 1 Built-in depth Degree of protection Pegree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min Technical Data - Mechanical 1 10 kA 11 11 11 11 11 11 11 11 11	Rated short-circuit breaking capacity (EN 60898) at 400 V	0 kA
Overvoltage category Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings Built-in depth Degree of protection IP20 Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min 1 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	10 kA
Pollution degree 2 Technical Data - Mechanical Width in number of modular spacings 1 Built-in depth 70.5 mm Degree of protection IP20 Connectable conductor cross section (solid-core) - min 1 mm² Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	10 kA
Width in number of modular spacings Built-in depth Degree of protection Connectable conductor cross section (solid-core) - min Connectable conductor cross section (multi-wired) - min Connectable conductor cross section (multi-wired) - min 1 mm² 1 mm² 1 mm²	Overvoltage category	III
Width in number of modular spacings 1 Built-in depth 70.5 mm Degree of protection IP20 Connectable conductor cross section (solid-core) - min 1 mm² Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Pollution degree	2
Built-in depth 70.5 mm Degree of protection IP20 Connectable conductor cross section (solid-core) - min 1 mm² Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Technical Data - Mechanical	
Degree of protection IP20 Connectable conductor cross section (solid-core) - min 1 mm² Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Width in number of modular spacings	1
Connectable conductor cross section (solid-core) - min 1 mm² Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Built-in depth	70.5 mm
Connectable conductor cross section (solid-core) - max 25 mm² Connectable conductor cross section (multi-wired) - min 1 mm²	Degree of protection	IP20
Connectable conductor cross section (multi-wired) - min 1 mm ²	Connectable conductor cross section (solid-core) - min	1 mm ²
	Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (multi-wired) - max 25 mm ²	Connectable conductor cross section (multi-wired) - min	1 mm²
	Connectable conductor cross section (multi-wired) - max	25 mm ²

Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	15 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	1.9 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
Additional information	
Current limiting class	3
Features	Additional equipment possible
Special features	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019])

Release characteristic Number of poles (total) Number of protected poles Number of protected poles Rated current Rated voltage Number of protected poles Rated woltage V 250 Rated insulation voltage Uimp Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA O Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V				
Number of poles (total) Number of protected poles Rated current Rated voltage V 250 Rated insulation voltage Ui Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA 1 1 1 1 1 1 1 1 1 1 1 1 1	Built-in depth		mm	70.5
Number of protected poles Rated current A 15 Rated voltage V 250 Rated insulation voltage Ui Rated insulation voltage Uimp KV 440 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA 10	Release characteristic			C
Rated current A 15 Rated voltage V 250 Rated insulation voltage Ui Rated insulation voltage Uimp KV 440 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA 10	Number of poles (total)			1
Rated voltage V 250 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEN 60898 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA 10	Number of protected poles			1
Rated insulation voltage Ui Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 0 Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 10	Rated current		Α	15
Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 0 Voltage type DC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10	Rated voltage	,	V	250
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 0 Voltage type DC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10	Rated insulation voltage Ui	,	V	440
Voltage type DC Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10	Rated impulse withstand voltage Uimp	1	kV	4
Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V		kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10	Voltage type			DC
	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$	1	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 10	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	ı	kA	10
	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$		kA	10

Frequency	Hz	50 - 60
Power loss	W	1.9
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
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
Explosion-proof		No