Miniature circuit breaker (MCB), 15 A, 3p, characteristic: B



Part no. FAZ-B15/3 278846 EL Number 1691038

(Norway)

Product name Part no. EAN A015082788469 Product Leight Product Leight Product Leight Product Leight Product Leight Product Leight Product Vividth Compliances Caccacacacacacacacacacacacacacacacacac	(Norway)	
Part no.	General specifications	
	Product name	Eaton Moeller series xEffect - FAZ MCB
Product Length Depth Smillimetre Product twelgth 75 millimetre Product weight 033 bildgram Compliances ILL CSAMB years supplementary protector annyl Bernifications ECEN 18898 Cardinations ECEN 18898 CASIGNS No. 2014-50 CSA (Sachs No. 2014-50) Language Product State of Number (Volvez, Deviation) CSA (Sachs No. 2014-50) Language Product State (Sachs No. 2014-50) CSA (Sachs No. 2014-50) Language Product State (Sachs No. 2014-50) CSA (Sachs No. 2014-50) Language Product State (Sachs No. 2014-50) CSA (Sachs No. 2014-50) Product Trademame Mill This And (TYP-561) Product State Trademame Mill This And (TYP-561) Number of poiss trade Sach (Sachs And (Sachs An	Part no.	FAZ-B15/3
Product longht Product width Product width Product width Campliances Carolinances C	EAN	4015082788469
Product width Product weight Campliances Carpliances C	Product Length/Depth	80 millimetre
Product vesight Compliances Cardiciations Cardic	Product height	75.5 millimetre
Compliances UL SA90 by byth supplementary protector only! MoRKS conflows with Scholars and Sandard Scholars and Sand	Product width	54 millimetre
Certifications Certif	Product weight	0.333 kilogram
SAS (Class No. 2375-30) Li (Classapry Carmaina IUL recognized, CSA certified) CSA (Class No. 2375-30) Morth Ameria IUL recognized, CSA certified) CSA (Class No. 2375-30) Li (Fic No. E3774-51) Li (Li (Fic No. E3774-51) Li (Fic No. E3774-51) Li (Li (Fic No. E3774-51) Li (Compliances	
Product Type Product Sub Type Delivery program Application Application Application Aumber of poles Number of poles (protected) Number of poles (protected) 3 Aumperage Rating Tripping characteristic Belaese characteristic Belaese characteristic Belaese characteristic Amperage Rating Type Technical Data - Electrical Voltage rating at DC Voltage rating at DC Voltage rating (LLC SA 13) Voltage rating (LLC SA 13) Voltage rating (LLC SA 13) Rated onyoltage (Uimp) Frequency rating - min Rated switching capacity (IEC/EN 60984-72) at max voltage rating Rated switching capacity (IEC/EN 60988-1) Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60987-2) at max voltage rating Rated switching capacity (IEC/EN 60988-1)	Certifications	CSA (Class No. 3215-30) UL (Category Control Number QVNU2, QVNU8) North America (UL recognized, CSA certified) CSA (File No. 204453) IEC/EN 60947-2 CE marking CSA-C22.2 No. 235 UL (File No. E177451) UL 1077 IEC 61373
Product Sub Type Delivery program Application Application Application Application Number of poles Number of poles Number of poles (protected) Tirree-pole Tirree-pole Tirree-pole Aumerage Ratiog Tipping characteristic Release characteristic Amperage Ratiog Type Application Yokage yrpe Voltage rating UL CSA 13) Acc Voltage rating (EC/EN 80898-1) Voltage rating (ELC/EN 80898-2) - max Reted dispulses withstand voltage (Uimp) Rated simpulse withstand voltage (Uimp) Frequency rating - max Rated switching capacity (EC/EN 60987-2) at max voltage rating Reted switching capacity (EC/EN 60987-2) Reted switching capacity (EC/EN 60987-2	Product Tradename	xEffect - FAZ
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Kumber of poles Switchagear for industrial and advanced commercial applications affected by the second poles (protected) Three-pole Number of poles (protected) 3 Number of poles (protected) 3 Release characteristic B Amperage Rating 55 Type AZ Voltage Vipe AZ Voltage vipe AC Voltage rating AZ Voltage rating (EC/EN 60898-1) AZ Voltage rating (IEC/EN 60898-1) AD Voltage rating (IU. CSA 13) ABO V2777 VA Voltage rating (IU. CSA 13) ABO V2777 VA Rated operational voltage (IU) ABO V2777 VA Querational voltage (IEC/EN 60947-2) max AUV AC Rated insulation voltage (IU) AUV AC Rated insulation voltage (IUim) AUV AC Rated insulation voltage (IUim) AUV AC Rated switching capacity (IEC/EN 60947-2) at max voltage rating BU AC Rated switching capacity (IEC/EN 60947-2) at max voltage rating BU AC Rated switching capacity (IEC/EN 60988-1) BU AC	Delivery program	
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Number of poles (protected) Tripping characteristic Release characteristic Amperage Rating Type Technical Data - Electrical Voltage type Voltage rating (LC/EN 80988-1) Voltage rating (LL) Asted operational voltage (Uinp) Rated insulation voltage (Uimp) Frequency rating - max Rated switching capacity (IEC/EN 80947-2) at max voltage rating Rated switching capacity (IEC/EN 80947-2) Rated switching capa	Number of poles	Three-pole
Tripping characteristic Release characteristic Amperage Reting Type Technical Data - Electrical Voltage type Voltage rating Voltage rating at DC Voltage rating (IEC/EN 80988-1) Voltage rating (UL) Voltage rating (UL) Voltage rating (UL) ABOY/277 V AC Rated operational voltage (Ue) - max Operational voltage (IEC/EN 80947-2) - max Rated insulation voltage (Uimp) Rated switching capacity (IEC/EN 80947-2) at max voltage rating Rated switching capacity (IEC/EN 80947-2) Rated switching capacity (IEC/EN 80948-1)	Number of poles (total)	3
Release characteristic Amperage Rating Type FAZ Miniature circuit breaker Technical Data - Electrical Voltage type Voltage rating Voltage rating at DC Voltage rating (IEC/EN 6098-1) Voltage rating (IEC/EN 6098-2) - max Rated operational voltage (Uimp) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max Rated switching capacity (IEC/EN 6094-2) at max voltage rating Rated switching capacity (IEC/EN 6094-2) Rated switching capacity (IEC/EN 6098-1) Rated switching capacity (IEC/EN 6098-1)	Number of poles (protected)	3
Amperage Rating Type Tochnical Data - Electrical Voltage type AC Voltage rating 4 DC Voltage rating (IEC/EN 60898-1) Voltage rating (ILC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60987-1) Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60988-1)	Tripping characteristic	В
Type FAZ Miniature circuit breaker Technical Data - Electrical Voltage type AC Voltage rating Voltage rating at DC Voltage rating (IEC/EN 60898-1) Voltage rating (IEC/EN 60898-1) Voltage rating (UL) 480 Y/277 V Voltage rating (UL CSA 13) Rated operational voltage (Ue) - max Operational voltage (IEC/EN 60947-2) - max Rated insulation voltage (Uimp) Rated insulation voltage (Uimp) Frequency rating - min Face dissultation gaapacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2)	Release characteristic	В
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Voltage rating (IEC/EN 60898-1) Voltage rating (UL) 480Y/277 V Voltage rating (UL CSA 13) Rated operational voltage (Ue) - max 400 V Operational voltage (IEC/EN 60947-2) - max 440 V AC Rated insulation voltage (Uimp) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max 60 Hz Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60988-1) 10 kA	Voltage rating	240 V AC / 415 V AC
Voltage rating (UL) Voltage rating (UL CSA 13) Rated operational voltage (Ue) - max 400 V Operational voltage (IEC/EN 60947-2) - max 440 V AC Rated insulation voltage (Uimp) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max 60 Hz Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60948-1)	Voltage rating at DC	60 V DC (per pole)
Voltage rating (UL CSA 13) Rated operational voltage (Ue) - max Operational voltage (IEC/EN 60947-2) - max 440 V AC Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60988-1) A80 Y/277 V AC 440 V 440 V 440 V 60 Hz 60 Hz 61 Hz 62 Hz 63 Hz 64 Hz 64 Hz 65 Hz 66 Hz 67 Hz 68 Hz 68 Hz 68 Hz 68 Hz 69 Hz 6	Voltage rating (IEC/EN 60898-1)	415 V AC
Rated operational voltage (Ue) - max Operational voltage (IEC/EN 60947-2) - max 440 V AC Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) 4kV Frequency rating - min Frequency rating - max 60 Hz Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60898-1) Rated switching capacity (IEC/EN 60898-1)	Voltage rating (UL)	480Y/277 V
Operational voltage (IEC/EN 60947-2) - max Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60988-1) Rated switching capacity (IEC/EN 60898-1)	Voltage rating (UL CSA 13)	480 Y/277 V AC
Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) 4 kV Frequency rating - min 50 Hz Frequency rating - max 60 Hz Rated switching capacity (IEC/EN 60947-2) at max voltage rating 10 kA Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60988-1) 10 kA	Rated operational voltage (Ue) - max	400 V
Rated impulse withstand voltage (Uimp) Frequency rating - min Frequency rating - max Frequency rating capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60898-1) Rated switching capacity (IEC/EN 60898-1)	Operational voltage (IEC/EN 60947-2) - max	440 V AC
Frequency rating - min 50 Hz Frequency rating - max 60 Hz Rated switching capacity (IEC/EN 60947-2) at max voltage rating 10 kA Rated switching capacity (IEC/EN 60947-2) 15 kA Rated switching capacity (IEC/EN 60898-1) 10 kA	Rated insulation voltage (Ui)	440 V
Frequency rating - max Rated switching capacity (IEC/EN 60947-2) at max voltage rating Rated switching capacity (IEC/EN 60947-2) 15 kA Rated switching capacity (IEC/EN 60898-1) 10 kA	Rated impulse withstand voltage (Uimp)	4 kV
Rated switching capacity (IEC/EN 60947-2) at max voltage rating 10 kA Rated switching capacity (IEC/EN 60947-2) 15 kA Rated switching capacity (IEC/EN 60898-1) 10 kA	Frequency rating - min	50 Hz
Rated switching capacity (IEC/EN 60947-2) Rated switching capacity (IEC/EN 60898-1) 15 kA 10 kA	Frequency rating - max	60 Hz
Rated switching capacity (IEC/EN 60898-1) 10 kA	Rated switching capacity (IEC/EN 60947-2) at max voltage rating	10 kA
	Rated switching capacity (IEC/EN 60947-2)	15 kA
Operational switching capacity 7.5 kA	Rated switching capacity (IEC/EN 60898-1)	10 kA
	Operational switching capacity	7.5 kA

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Breaking capacity	10 kA (UL1077)
Rated service short-circuit breaking capacity (IEC/EN 60898-1)	7.5 kA
Rated service short-circuit breaking capacity (IEC/EN 60947-2)	7.5 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V	10 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	10 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	15 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	15 kA
Admissible back-up fuse - max	125 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	80 mm
Width in number of modular spacings	3
Built-in depth	70.5 mm
Mounting width per pole	17.5 mm
Mounting width	17.5 mm
Mounting Method	Top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP40 (when fitted) IP20 UL/CSA Type: - IP20 (IEC)
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm²
Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (multi-wired) - min	1 mm²
Connectable conductor cross section (multi-wired) - max	25 mm ²
Terminal capacity of screw terminals for main cable	10 mm² (2x)
Terminal capacity (control cable)	25 mm² (1x)
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Busbar material thickness	0.8 mm - 2 mm
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	6.5 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.

Is the panel builder's responsibility.
Is the panel builder's responsibility.
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
3
Additional equipment possible
Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
FAZ Miniature circuit breaker

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])

Built-in depth	mm	70.5
Release characteristic		В
Number of poles (total)		3
Number of protected poles		3
Rated current	Α	15
Rated voltage	V	400
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 $$	kA	10
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kA	15
Frequency	Hz	50 - 60
Power loss	W	6.2
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		3
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