## DATASHEET - FAZT-C1/3

## Miniature circuit breaker (MCB), 1 A, 3p, characteristic: C



Part no.	FAZT-C1/3
	240886
EL Number	1605631
(Norway)	

General specifications	
Product name	Eaton Moeller series xEffect - FAZ-T MCB
Part no.	FAZT-C1/3
EAN	4015082408862
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	54 millimetre
Product weight	0.336 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename	xEffect - FAZ-T
Product Type	МСВ
Product Sub Type	None
Delivery program	
Application	Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles	Three-pole
Number of poles (total)	3
Number of poles (protected)	3
Tripping characteristic	С
Release characteristic	C
Amperage Rating	1 A
Туре	FAZ-T Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC
Voltage rating (IEC/EN 60898-1)	415 V AC
Voltage rating (IEC/EN 60947-2)	440 V
Rated operational voltage (Ue) - max	230 V
Operational voltage (IEC/EN 60947-2) - max	440 V AC
Operational voltage at DC (EC/EN 60947-2) - max	60 V DC
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating	50 Hz / 60 Hz
Frequency rating - min	50 Hz
Frequency rating - max	60 Hz
Rated switching capacity (IEC/EN 60947-2) at max voltage rating	25 kA
Rated switching capacity (IEC/EN 60947-2)	25 kA
Rated switching capacity (IEC/EN 60898-1)	15 kA
Rated service short-circuit breaking capacity (IEC/EN 60898-1)	7.5 kA
Rated service short-circuit breaking capacity (IEC/EN 60947-2)	12.5 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V	15 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	15 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	25 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	25 kA
Lifespan, electrical	4000 operations
Overvoltage category	

Pollution degree	2
Pollution degree	
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	17.5 mm
Mounting width per pole	17.5 mm
Mounting Method	Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP20
Terminal capacity	1 mm <sup>2</sup> - 25 mm <sup>2</sup>
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Tightening torque	Max. 2.4 Nm
Busbar material thickness	0.8 mm (except N 0.5 SU)
Lifespan, mechanical	10000 operations
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	1A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	4.7 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	
	Maste the graduat standard's agricements
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
Used with	FAZ-T 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])

Ansae duracteristic     C       Number of poles (total)     3       Number of protectad poles     3       Rated current     A     1       Rated current     V     30       Rated current     V     30       Rated short-circut breaking capacity (an according to EN 60898 at 230 V)     V     40       Rated short-circut breaking capacity (an according to EN 60898 at 230 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60898 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 200 V)     KA     5       Rated short-circut breaking capacity (an according to EN 60894 at 400 V)     KA     5       Forgue Carding to EN 60894 at 400 V			
Number of poles (total)Image: second sec	Built-in depth	mm	70.5
Number of protected poles     Image: space	Release characteristic		C
Rated current   A   A     Rated voltage   V   30     Rated insulation voltage Uin   V   40     Rated insulation voltage Uinp   V   40     Rated short-circuit breaking capacity Icn according to EN 60898 at 200 V   V   40     Voltage type   AC   Ac     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   K   50     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   K   50     Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V   K   50     Frequency   K   S0   50     Power los   K   S0   50     Current limiting class   K   S0   50     Power los cardony   K   S0   S0     Our vortage category   K   S0   S0     Pollution degree   K   S0   S0   S0     Additional quipment possible   K   S0   S0   S0     Verv Voltage category   K   S0	Number of poles (total)		3
Rated voltage     V     30       Rated voltage Ui     V     40       Rated insulation voltage Uimp     KV     40       Rated short-circuit breaking capacity Icn according to EN 60989 at 230 V     KA     50       Voltage type     KA     50       Rated short-circuit breaking capacity Icn according to EN 60987- 24 200 V     KA     50       Rated short-circuit breaking capacity Icu according to EC 60947- 24 200 V     KA     50       Frequency     KA     50     50       Power loss     KA     50     50       Current limiting class     KA     50     50       Power loss     KA     50     50       Concurrent switching neutral conductor     KA     50     50       Over voltage category     KA     50     50       Power oblage category     KA     50     50       Outcounted mistal atoin     KA     50     50       Outcounted spacing Some Some Some Some Some Some Some Some	Number of protected poles		3
Action wildage Ui     V     40       Rated insulase withstand voltage Uinp     KV     4       Rated short-circuit breaking capacity Icn according to EN 60988 at 230 V     KA     5       Vatage type     KA     5       Rated short-circuit breaking capacity Icn according to EN 60987-2 at 230 V     KA     5       Rated short-circuit breaking capacity Icn according to EC 60947-2 at 230 V     KA     5       Frequency     KA     5       Power loss     KA     5       Concurrent limiting class     V     KA       Power loss     V     4/2       Concurrently switching neutral conductor     V     KA       Over voltage category     V     4/2       Pollution degree     V     4/2       Additional equipment possible     V     4/2       With in number of modular spacings     V     4/2       Degree of protection (IP)     X     3       Anbient temperature during operating     Y     1/2       Connectable conductor cross section suidi-core     1/2     2/2       Connectable conductor cross section suidi-core     <	Rated current	А	1
Rated impulse withs and voltage Uimp     K     K       Rated short-circuit breaking capacity Icn according to EN 60898 at 201 V     K     S       Voltage type     K     K       Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V     K     S       Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V     K     S       Rated short-circuit breaking capacity Icn according to EC 60947-2 at 200 V     K     S       Frequency     K     S     S       Power loss     K     S     S       Current limiting class     K     S     S       Power loss     K     K     S       Concurrently switching neutral conductor     K     K     S       Over voltage category     K     K     S       Pollution degree     K     K     S       Additional equipment possible     K     K     S       With in number of modular spacings     K     K     S       Degree of protection (IP)     K     K     S       Athient temperature during operating     K     K	Rated voltage	V	230
Rated short-circuit breaking capacity lea according to EN 60898 at 230 V     KA     5       Voltage type     C     C       Rated short-circuit breaking capacity lea according to EN 60898 at 400 V     KA     5       Rated short-circuit breaking capacity lea according to EN 60898 at 400 V     KA     5       Rated short-circuit breaking capacity lea according to EC 60947-2 at 230 V     KA     5       Frequency     C     5     6       Power loss     C     KA     5       Current limiting class     C     KA     7       Concurrently switching neutral conductor     C     KA     7       Polution degree     C     KA     7       Additional equipment possible     C     KA     7       Vith in number of modular spacings     C     KA     7       Additional equipment during operating     C     KA     7       Abient temperature during operating     C     KA     7       Connectable conductor cross section multi-wired     C     7     7       Contectable conductor cross section solid-core     C     7     7 <td>Rated insulation voltage Ui</td> <td>V</td> <td>440</td>	Rated insulation voltage Ui	V	440
Voltage type     AC       Rated short-circuit breaking capacity Icu according to EK 60898 at 400 V     KA     5       Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V     KA     5       Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V     KA     5-       Prequency     KA     5-     6-       Power loss     KA     5-     6-       Current limiting class     V     4.7     7-       Power loss category     Y     7-     7-       Pollution degree     Y     7-     7-       Additional equipment possible     Y     Y     Y       Multi number of modular spacings     Y     Y     Y       Additional equipment possible     Y     Y     Y       Additional equipment possible     Y     Y     Y       Additional equipment possible     Y     Y     Y       Abilient temperature during operating     Y     Y     Y       Abilient temperature during operating     Y     Y     Y       Abilient temperature during operating     Y	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity lou according to EK 60987 + 2 at 230 V KA 5   Rated short-circuit breaking capacity lou according to EK 60947 - 2 at 230 V KA 5   Rated short-circuit breaking capacity lou according to EK 60947 - 2 at 230 V KA 5   Frequency KA 5   Power loss KA 5   Current limiting class V 47   Flush-mounted installation V 7   Concurrently switching neutral conductor V 8   Pollution degree I S   Additional equipment possible V 9   Moint emperature during operating C 8   Anbient temperature during operating C 20   Concectable conductor cross section subli-vired m <sup>n</sup> 125	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity lou according to IEC 60947-2 at 230 V   kA   5     Rated short-circuit breaking capacity lou according to IEC 60947-2 at 400 V   kA   50     Frequency   V   60   60     Power loss   V   7   7     Current limiting class   V   7   7     Flush-mounted installation   V   7   7     Corrently switching neutral conductor   V   7   7     Over voltage category   V   7   7     Pollution degree   V   7   7     Additional equipment possible   V   7   7     With in number of modular spacings   C   7   7     Degree of protection (IP)   C   7   7     Ambient temperature during operating   C   7   7     Connectable conductor cross section solid-core   mn <sup>2</sup> 125   125	Voltage type		AC
Rated short-circuit breaking capacity lou according to IEC 60947-2 at 400 V   kA   5     Frequency   KA   50-60     Power loss   V   47     Current limiting class   V   5     Fush-mounted installation   V   No     Concurrently switching neutral conductor   V   No     Pollution degree   2   3     Additional equipment possible   V   V     Width in number of modular spacings   V   V     Degree of protection (IP)   V   V     Ambient temperature during operating   C   S     Connectable conductor cross section multi-wired   ma <sup>n</sup> 125	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	15
Frequency   Hz   50 - 60     Power loss   W   4,7     Current limiting class   S   3     Flush-mounted installation   No   No     Concurrently switching neutral conductor   No   No     Over voltage category   S   3     Pollution degree   S   S     Additional equipment possible   Yes   S     Number of modular spacings   S   S     Anbient temperature during operating   Co   S     Connectable conductor cross section multi-wired   mm <sup>2</sup> 1-25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	25
Power loss   W   4.7     Current limiting class   3   3     Flush-mounted installation   M   No     Concurrently switching neutral conductor   No   No     Over voltage category   S   S     Pollution degree   S   S     Additional equipment possible   M   Yes     Viet thin number of modular spacings   S   S     Pogree of protection (IP)   M   S     Anbient temperature during operating   °C   S     Connectable conductor cross section solid-core   ma <sup>a</sup> 1.25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	25
Current limiting class   Image: Sector of the sector of	Frequency	Hz	50 - 60
Fush-mounted installation   No     Concurrently switching neutral conductor   No     Over voltage category   S     Pollution degree   3     Additional equipment possible   Ver     Width in number of modular spacings   S     Degree of protection (IP)   S     Ambient temperature during operating   °C     Connectable conductor cross section solid-core   mm²     Interpret   To	Power loss	W	4.7
Concurrently switching neutral conductorPoileNoOver voltage category3Pollution degree2Additional equipment possibleVersWitch in number of modular spacingsSDegree of protection (IP)IDAmbient temperature during operatingCConnectable conductor cross section multi-wiredmar <sup>2</sup> Intercetor of the conductor cross section solid-coremar <sup>2</sup> Intercetor of the conductor cross section solid-coremar <sup>2</sup>	Current limiting class		3
Over voltage categorySSPollution degreeCSAdditional equipment possibleCVersWith in number of modular spacingsCSDegree of protection (IP)CSAmbient temperaturg during operatingCSConnectable conductor cross section multi-wiredmm²125	Flush-mounted installation		No
Pollution degree2Additional equipment possibleYesWidth in number of modular spacingsSDegree of protection (IP)IP20Ambient temperature during operating°CConnectable conductor cross section multi-wiredmm²Intercedulation of the conductor cross section solid-coremm²Intercedulation of the conductor cross section solid-coremm²	Concurrently switching neutral conductor		No
Additional equipment possibleYesWidth in number of modular spacingsImage: Space of protection (IP)Image: Space of protection (IP)Ambient temperature during operatingImage: Space of protection nulti-wiredImage: Space of protection nulti-wiredConnectable conductor cross section solid-coreImage: Space of protection nulti-wiredImage: Space of protection nulti	Over voltage category		3
Width in number of modular spacingsImage: Space of protection (IP)Image: Space of protection (IP)Ambient temperature during operating°C-25 - 75Connectable conductor cross section multi-wiredmm²1 - 25Connectable conductor cross section solid-coremm²1 - 25	Pollution degree		2
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	Additional equipment possible		Yes
Ambient temperature during operating °C -25 - 75   Connectable conductor cross section multi-wired mm <sup>2</sup> 1 - 25   Connectable conductor cross section solid-core mm <sup>2</sup> 1 - 25	Width in number of modular spacings		3
Connectable conductor cross section multi-wired mm <sup>2</sup> 1 - 25   Connectable conductor cross section solid-core mm <sup>2</sup> 1 - 25	Degree of protection (IP)		IP20
Connectable conductor cross section solid-core mm <sup>2</sup> 1 - 25	Ambient temperature during operating	°C	-25 - 75
	Connectable conductor cross section multi-wired	mm²	1 - 25
Explosion-proof No	Connectable conductor cross section solid-core	mm²	1 - 25
	Explosion-proof		No