## DATASHEET - FAZ6-C3/2

## Miniature circuit breaker (MCB), 3 A, 2p, characteristic: C, 6 kA



Part no.	FAZ6-C3/2
	239098

General specifications	
Product name	Eaton Moeller series xEffect - FAZ6 MCB
Part no.	FAZ6-C3/2
EAN	4015082390983
Product Length/Depth	85 millimetre
Product height	73 millimetre
Product width	35.4 millimetre
Product weight	0.216 kilogram
Compliances	RoHS conform
Product Tradename	xEffect - FAZ6
Product Type	МСВ
Product Sub Type	None
Delivery program	
Number of poles (total)	2
Number of poles (protected)	2
Release characteristic	C
Amperage Rating	3 A
Technical Data - Electrical	
Voltage type	AC
Rated operational voltage (Ue) - max	230 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating - min	50 Hz
Frequency rating - max	60 Hz
Rated short-circuit breaking capacity (EN 60898) at 230 V	6 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	6 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	10 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	10 kA
Overvoltage category	
Pollution degree	2
Technical Data - Mechanical	
Width in number of modular spacings	2
Built-in depth	70.5 mm
Degree of protection	IP20
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>
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	3 A
Equipment heat dissipation, current-dependent	2.4 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

## **Technical data ETIM 8.0**

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@ss10.0.1-27-14-19-01 [AAB905014])

Release duracteristic   C     Number of poles (total)   2     Number of protected poles   2     Rated current   A   3     Rated current   V   30     Rated foruges   V   40     Rated insulation voltage Uim   KA   6     Rated insulation voltage Uim   KA   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6     Notage type   KA   6   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6   6   6     Rated short-circuit breaking capacity (to according to EN 60898 at 200 V)   KA   6	(eci@ss10.0.1-27-14-19-01 [AAB905014])		
Number of poles (total)     Image: space of poles	Built-in depth	mm	70.5
Number of protected polesImage: space of the state of the	Release characteristic		C
Rated current   A   A     Rated virtage   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   K   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   K   6     Rated short-circuit breaking capacity Icu according to EN 60894.7 at 230 V   K   6     Rated short-circuit breaking capacity Icu according to EC 60947.2 at 240 V   K   10     Rated short-circuit breaking capacity Icu according to EC 60947.2 at 240 V   KA   10     Frequery   KA   10   10     Current limiting class   KA   10   10     Publicon degree   KA   10   10     Ouer voltage category   KA   10   10     Poure voltage category   KA   10   10     Ouer voltage category   KA   10   10     Ouer voltage category   KA   10   10   10     Poure voltage category   KA   10   10   10   10     Poure voltage categor	Number of poles (total)		2
Rated voltage   V   3     Rated insulation voltage Uin   V   40     Rated insulation voltage Uinp   V   40     Rated insulation voltage Uinp   V   6     Rated insulation voltage Uinp   V   6     Voltage type   C   C     Voltage type   KA   6     Rated short-circuit breaking capacity Lon according to EN 60987 at 230 V   KA   6     Rated short-circuit breaking capacity Lon according to EN 60947-2 at 230 V   KA   0     Rated short-circuit breaking capacity Lon according to EN 60947-2 at 230 V   KA   0     Rated short-circuit breaking capacity Lon according to EN 60947-2 at 240 V   KA   0     Frequency   KA   0   0     Corrent limiting class   KA   0   0     Concurrent ly switching neutral conductor   KA   0   0     Over voltage category   KA   0   0     Pollution degree   S   0   0   0     Vidt hin number of modular spacings   KA   0   0   0     Vidt hin number of modular spacings   KA   0   0   0	Number of protected poles		2
Acta     V     40       Rated insulation voltage Uimp     KV     40       Rated insulation voltage Uimp     KV     40       Rated insulation voltage Uimp     KV     60       Rated short-circuit breaking capacity Icn according to EN 60898 at 200 V     KA     60       Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V     KA     60       Rated short-circuit breaking capacity Icn according to EC 60947-2 at 200 V     KA     10       Rated short-circuit breaking capacity Icn according to EC 60947-2 at 200 V     KA     10       Frequency     KA     50-60       Current limiting class     S0-60     S0       Fush-mounted installation     ME     S0       Concurrently switching neutral conductor     ME     S0       Over voltage category     ME     S0       Pollution degree     ME     S0       Additional equipment possible     ME     FP2       With in number of modular spacings     ME     FP2       Degree of protection (IP)     ME     FP2       Anbient temperature during operating     T     S0	Rated current	А	3
Rated impulse withs and voltage Uimp     KV     Impulse withs and voltage Uimp       Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V     KA     Impulse Withs and 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     KA     Impulse Withs and short-circuit breaking capacity Icn according to EN 60947-2 at 230 V     KA     Impulse Withs and short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Withs and short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Withs and short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Withs and Short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Withs and Short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Withs and Short-circuit breaking capacity Icn according to EEC 60947-2 at 230 V     KA     Impulse Mathematics     I	Rated voltage	V	230
Rated short-circuit breaking capacity Icn according to EN 60989 at 230 V     Ka     G       Rated short-circuit breaking capacity Icn according to EN 60989 at 400 V     KA     G       Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V     KA     I       Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V     KA     I       Frequency     Hz     50-60       Current limiting class     V     KA       Flush-mounted installation     V     KA       Over voltage category     KA     I       Pollution degree     KA     I       Additional equipment possible     KA     I       With in number of modular spacings     KA     I       Degree of protection (IP)     KA     I       Anbient temperature during operating     C     I       Concectable conductor cross section solid-core     ma*     I	Rated insulation voltage Ui	V	440
Voltage typeACRated short-circuit breaking capacity Loa according to EK 60898 at 400 VKA6Rated short-circuit breaking capacity Loa according to EK 60947-2 at 230 VKA10Rated short-circuit breaking capacity Loa according to EK 60947-2 at 400 VKA0FrequencyKA5-60Current limiting classFSFlush-mounted installationFVNoConcurrently switching neutral conductorFSSPollution degreeFSSSAdditional equipment possibleFSSSWith in number of modular spacingsFSSSAnbient temperature during operatingCRSSAnbient temperature during operatingCSSSConnectable conductor cross section multi-wiredCRSSConnectable conductor cross section solid-coreCRSSConnectable conductor cross section solid-coreCRSS <td< td=""><td>Rated impulse withstand voltage Uimp</td><td>kV</td><td>4</td></td<>	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V KA 6   Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA 10   Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V KA 10   Frequency KA 50-60   Current limiting class Mathematication No   Flush-mounted installation Mathematication No   Over voltage category Mathematication No   Pollution degree S S S   Additional equipment possible Mathematication Yes S   Mith in number of modular spacings Mathematication Yes   Anbient temperature during operating C 25-75   Connectable conductor cross section solid-core mathematication 125	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	6
Rated short-circuit breaking capacity lou according to IEC 60947-2 at 230 V   KA   10     Rated short-circuit breaking capacity lou according to IEC 60947-2 at 400 V   KA   10     Frequency   KA   50-60     Current limiting class   Mated short-circuit breaking neutral conductor   Mated short-circuit breaking neutral conductor     Concurrently switching neutral conductor   Mated short-circuit breaking neutral conductor   Mo     Pollution degree   Mated short-circuit (P)   Mated short-circuit preating   Mated short-circuit preating     Ambient temperature during operating   Mated short-circuit breaking capacity invired   Mated short-circuit breaking capacity invired   Mated short-circuit breaking capacity invired     Connectable conductor cross section solid-core   Mated short-circuit breaking capacity invired   Mated short-circuit breaking capacity invired   Si S	Voltage type		AC
Rated short-circuit breaking capacity lou according to IEC 60947-2 at 400 V   KA   0     Frequency   KA   50-60     Current limiting class   S   3     Fush-mounted installation   Mo   No     Concurrently switching neutral conductor   Mo   No     Over voltage category   S   S     Pollution degree   Mo   S     Addtional equipment possible   Mo   S     Width in number of modular spacings   Mo   Yo     Degree of protection (IP)   Mo   Yo     Ambient temperature during operating   Mo   S     Connectable conductor cross section multi-wired   Mo   S     Monectable conductor cross section solid-core   Mo   S	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	6
Frequency   Hz   50-60     Current limiting class   S   60     Flush-mounted installation   No   No     Concurrently switching neutral conductor   No   No     Over voltage category   S   S     Pollution degree   S   So     Additional equipment possible   So   So     Width in number of modular spacings   So   So     Degree of protection (IP)   So   So     Anbient temperature during operating   So   So     Connectable conductor cross section solid-core   So   So     Some conductor cross section solid-core   So   So	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	10
Current limiting class   3     Fush-mounted installation   No     Concurrently switching neutral conductor   No     Over voltage category   S     Pollution degree   3     Additional equipment possible   S     Width in number of modular spacings   Yes     Degree of protection (IP)   Yes     Ambient temperature during operating   °C     Connectable conductor cross section multi-wired   mm <sup>2</sup> In temperature during solid-core   Imm <sup>2</sup> Solid   Imm <sup>2</sup>	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	10
Fush-mounted installationNoConcurrently switching neutral conductorNoOver voltage categorySPollution degree3Additional equipment possibleYesWidth in number of modular spacingsYesDegree of protection (IP)PolAmbient temperature during operating°CConnectable conductor cross section solid-coremm²Sonnectable conductor cross section solid-coremm²Sonnectable conductor cross section solid-coremm²	Frequency	Hz	50 - 60
Concurrently switching neutral conductor   No     Over voltage category   S   S     Pollution degree   S   S     Additional equipment possible   Yes   S     Width in number of modular spacings   S   Yes     Degree of protection (IP)   Yes   Polo     Ambient temperature during operating   °C   So     Connectable conductor cross section multi-wired   ma <sup>2</sup> 125	Current limiting class		3
Dver voltage categorySSPollution degreeSSAdditional equipment possibleMSWidth in number of modular spacingsSSDegree of protection (IP)SSAmbient temperature during operatingSSConnectable conductor cross section multi-wiredmm²1.25Connectable conductor cross section solid-coremm²1.25	Flush-mounted installation		No
Pollution degreePollution degreePollution degreePollution degreePollution degreePollution degreePollution degreePollution degreePellution degreePollution degreePollu	Concurrently switching neutral conductor		No
Additional equipment possibleYesWidth in number of modular spacingsC2Degree of protection (IP)CP20Ambient temperature during operatingC25 - 75Connectable conductor cross section multi-wiredmm²1 - 25Connectable conductor cross section solid-coremm²1 - 25	Over voltage category		3
Width in number of modular spacingsImage: Space of protection (IP)Image: Space of protection	Pollution degree		2
Degree of protection (IP)IPOAmbient temperature during operating°C25 - 75Connectable conductor cross section multi-wiredmm²1 - 25Connectable conductor cross section solid-coremm²1 - 25	Additional equipment possible		Yes
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	Width in number of modular spacings		2
Connectable conductor cross section solid-core 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