## Miniature circuit breaker (MCB), 8 A, 1p, characteristic: B, DC, ring tongue



Part no. FAZ-B8/1-RT-DC 305918

Product name	Eaton Moeller series xEffect - FAZ-DC MCB
Part no.	FAZ-B8/1-RT-DC
AN	9010238217164
Product Length/Depth	105 millimetre
Product height	75.5 millimetre
Product width	35.4 millimetre
Product weight	0.122 kilogram
Compliances	RoHS conform
ertifications	IEC 61373 EN45545-2
Product Tradename	xEffect - FAZ-DC
Product Type	MCB
Product Sub Type	None
Blobally Marketable	Yes
lumber of poles	Single-pole
lumber of poles (total)	1
lumber of poles (protected)	1
ripping characteristic	В
delease characteristic	В
Imperage Rating	8 A
ype	FAZ-DC Miniature circuit breaker
foltage type	DC
lated operational voltage (Ue) - max	250 V
lated insulation voltage (Ui)	440 V
lated impulse withstand voltage (Uimp)	4 kV
requency rating - min	50 Hz
requency rating - max	60 Hz
lated switching capacity (IEC/EN 60947-2)	10 kA
lated short-circuit breaking capacity (EN 60898) at 230 V	0 kA
lated short-circuit breaking capacity (EN 60898) at 400 V	0 kA
lated short-circuit breaking capacity (IEC 60947-2) at 230 V	10 kA
lated short-circuit breaking capacity (IEC 60947-2) at 400 V	10 kA
Selectivity class	3
ifespan, electrical	4000 operations
vervoltage category	III
Pollution degree	2
rame	45 mm
Vidth in number of modular spacings	1
Built-in depth	75.5 mm
Mounting width	17.7 mm
Mounting width per pole	17.7 mm
Mounting position	As required
rounding position	

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 capacity (control cable)	25 mm² (1x)
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Lifespan, mechanical	20000 operations
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °C
Current limiting class	3
Features	Additional equipment possible

## **Technical data ETIM 8.0**

Electric angineering, automation, process control engineering / Electrical installation / solver / Harris (PAGS) / Ministure circuit breaker (PAGS) / Ministure circuit preserved (PAGS) / Mi	Technical data ETIM 8.0						
Bull-in depth   Section	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)						
Release characteristic  Number of poles (total)  Number of protected poles Rated current Rated current Rated current Rated current Rated characteristic Rated current Rated current Rated current Rated insulation voltage Uira Rated insulation voltage Uira Rated insulation voltage Uira Rated insulation voltage Uira Rated short-circuit breaking capacity Icn according to EN 80898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 80898 at 400 V Rated short-circuit breaking capacity Icn according to EN 80898 at 400 V Rated short-circuit breaking capacity Icn according to EC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 240 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 240 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 240 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 240 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 80947-2 at 230 V Rated short-circuit breaking capacity Icu according to IE							
Number of poles (total)         Image: Company of protected poles         Image: Company of protected poles         Image: Company of protected poles         Image: Company of poles (total)         Image: Company o	Built-in depth		mm	75.5			
Number of protected poles         1           Rated current         A         8           Rated voltage         V         250           Rated insulation voltage Ui         V         440           Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V         kA         0           Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V         RA         0           Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V         KA         0           Rated short-circuit breaking capacity Icu according to EC 60947-2 at 230 V         KA         10           Rated short-circuit breaking capacity Icu according to EC 60947-2 at 400 V         KA         10           Rated short-circuit breaking capacity Icu according to EC 60947-2 at 400 V         KA         10           Frequency         KA         10           Current limiting class         S         60           Fush-mounted installation         S         10           Concurrently switching neutral conductor         S         10           Concurrently switching neutral conductor         S         10           Pollution degree         S         10           Additional equipment possible         Yes           With in number of modular spacings         S	Release characteristic			В			
Rated current         A         8           Rated voltage         V         250           Rated insulation voltage Ui         V         440           Rated insulation voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V         kA         0           Voltage type         C         C           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 short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V         kA         10           Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V         kA         10           Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V         kA         10           Current limiting class         3         0           Current limiting class         N         No           Concurrently switching neutral conductor         N         N           Over voltage category         N         N           Pollution degree         Y         Y           Additional equipment possible         Y         Y           With in number of modular spacings	Number of poles (total)			1			
Rated voltage         V         550           Rated insulation voltage Uin         V         440           Rated inpulse withstand voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V         kA         0           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 short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V         kA         10           Frequency         kA         10         10           Frequency         kA         10         10           Current limiting class         kA         10         10           Flush-mounted installation         kA         10         10           Concurrently switching neutral conductor         No         No           Over voltage category         No         2           Pollution degree         L         2         2           Additional equipment possible         y         2         2           Width in number of modular spacings         L         12         2           Degree of protection (IP)         2         2         2 <td>Number of protected poles</td> <td></td> <td></td> <td>1</td>	Number of protected poles			1			
Rated insulation voltage Uin         V         440           Rated insulation voltage Uinp         kV         4           Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V         kA         0           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         0           Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V         kA         10           Frequency         kA         0         0           Current limiting class         kA         0         0           Flush-mounted installation         kA         0         0           Concurrently switching neutral conductor         kA         0         0           Cover voltage category         kA         0         0           Pollution degree         kA         2         2           Additional equipment possible         kB         yes           Width in number of modular spacings         kB         p20           Amient temperature during operating         kB         p25-75           Connectable conductor cross section multi-wired         ma*         1-25           Connectable conductor cross section solid-core	Rated current		Α	8			
Rated impulse with sand 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 Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Requency Rourent Imiting class Rush-mounted installation Concurrently switching neutral conductor Concurrently switching neutral conductor Over voltage category Pollution degree Rdditional equipment possible Width in number of modular spacings Degree of protection (IP) Rhibent temperature during operating Concurrently evince of protection (IP) Rhibent temperature during operating Concurrently evince of protection specific onductor cross section multi-wired Connectable conductor cross section multi-wired Connectable conductor cross section solid-core  Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V RA  Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V RA  Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V RA  Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu according to EN 60947-2 at 230 V RA  Rated short-circuit breaking capacity Icu accord	Rated voltage		V	250			
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 Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Requency Req	Rated insulation voltage Ui		V	440			
Voltage type  Rated short-circuit breaking capacity Icu according to EN 60998 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V  Rated short-circuit breaking capa	Rated impulse withstand voltage Uimp		kV	4			
Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200	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  Frequency Hz 50-60  Current limiting class 3  Flush-mounted installation No  Concurrently switching neutral conductor Over voltage category 2  Pollution degree Additional equipment possible Videntian prodular spacings 1  Width in number of modular spacings 1  Degree of protection (IP) Protection (IP) Protection (IP) Protection multi-wired Protection multi-wired Protection multi-wired Protection multi-wired Protection section solid-core Protection section section solid-core Protection section	Voltage type			DC			
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Frequency  Lurent limiting class Flush-mounted installation  Concurrently switching neutral conductor  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Width in number of modular spacings  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Connectable conductor cross section solid-core  Rate Short-2 at 400 V  RA 10  10  10  10  10  10  10  10  10  10	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$		kA	0			
Frequency Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Very of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core  Hz 50-60  No  No  2  2  4  2  4  2  4  1  1  1  1  1  1  1  1  1  1  1  1	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V		kA	10			
Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Flush-mounted installation Pogree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Flush-mounted installation No No No Pollution Pes Section Sible Ves Ves Flush-mounted installation No No  1 2 2 4 4 5 6 7 8 8 8 9 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$		kA	10			
Flush-mounted installation  Concurrently switching neutral conductor  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Width in number of modular spacings  Degree of protection (IP)  Ambient temperature during operating  Connectable conductor cross section solid-core  No  No  No  1  2  4  4  1  1  1  1  1  1  1  1  1  1  1	Frequency		Hz	50 - 60			
Concurrently switching neutral conductor  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Width in number of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Connectable conductor cross section solid-core  No  No  No  1  2  Additional equipment possible  Yes  1  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	Current limiting class			3			
Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Width in number of modular spacings  Pegree of protection (IP)  Ambient temperature during operating  "C -25 - 75  Connectable conductor cross section multi-wired  Connectable conductor cross section solid-core  "Mm² 1 - 25  Connectable conductor cross section solid-core  "mm² 1 - 25	Flush-mounted installation			No			
Pollution degree  Additional equipment possible  Width in number of modular spacings  Width in number of protection (IP)  Ambient temperature during operating  Connectable conductor cross section multi-wired  Connectable conductor cross section solid-core  Pes  2  Yes  1  1  P20  Arbient temperature during operating  CC -25 - 75  Connectable conductor cross section multi-wired  mm² 1 - 25  Connectable conductor cross section solid-core  mm² 1 - 25	Concurrently switching neutral conductor			No			
Additional equipment possible  Width in number of modular spacings  Degree of protection (IP)  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	Over voltage category			3			
Width in number of modular spacings  Degree of protection (IP)  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	Pollution degree			2			
Degree of protection (IP)  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  mm² 1 - 25  Connectable conductor cross section solid-core  mm² 1 - 25	Width in number of modular spacings			1			
Connectable conductor cross section multi-wired mm² 1 - 25  Connectable conductor cross section solid-core mm² 1 - 25	Degree of protection (IP)			IP20			
Connectable conductor cross section solid-core mm² 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			