

## Miniature circuit breaker (MCB), 50 A, 3p, characteristic: D, 6 kA

**Part no.**                    **FAZ6-D50/3**  
**168086**

<b>General specifications</b>		
Product name		Eaton Moeller series xEffect - FAZ6 MCB
Part no.		FAZ6-D50/3
EAN		4015081646616
Product Length/Depth		85 millimetre
Product height		73 millimetre
Product width		52.5 millimetre
Product weight		0.36 kilogram
Compliances		RoHS conform
Product Tradename		xEffect - FAZ6
Product Type		MCB
Product Sub Type		None
<b>Delivery program</b>		
Number of poles		Three-pole
Number of poles (total)		3
Number of poles (protected)		3
Release characteristic		D
Amperage Rating		50 A
<b>Technical Data - Electrical</b>		
Voltage type		AC
Voltage rating (IEC/EN 60898-1)		415 V
Voltage rating (IEC/EN 60947-2)		400
Rated operational voltage (Ue) - max		230 V
Operational voltage (IEC/EN 60947-2) - max		400 V
Operational voltage at DC (IEC/EN 60947-2) - max		60 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 switching capacity (IEC/EN 60947-2)		7.5 kA
Rated service short-circuit breaking capacity (IEC/EN 60898-1)		0 kA
Rated service short-circuit breaking capacity (IEC/EN 60947-2)		10 kA
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		6 kA
Overtoltage category		III
Pollution degree		2
<b>Technical Data - Mechanical</b>		
Width in number of modular spacings		3
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>
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Rated operational current for specified heat dissipation (In)		50 A

Equipment heat dissipation, current-dependent		14.6 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
<b>Additional information</b>		
Current limiting class		3
Features		Additional equipment possible
Special features		Ambient temperature hint: Starting at 70 °C 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])

Built-in depth	mm	70.5
Release characteristic		D
Number of poles (total)		3
Number of protected poles		3
Rated current	A	50
Rated voltage	V	230
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	6
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	6
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	6
Frequency	Hz	50 - 60
Power loss	W	14.8
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	mm <sup>2</sup>	1 - 25
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25
Explosion-proof		No