Specifications

Photo is representative

Eaton 278996

Eaton Moeller series xEffect - FAZ MCB. FAZ, 3-pole+N, tripping characteristic: D, rated current In: 13 A

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278996
MODEL CODE	FAZ-D13/3N
EAN	4015082789961
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	0.423 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60898 IEC/EN 60947-2 EN45545-2 IEC 61373



Delivery Programme

APPLICATION

 Switchgear for industrial and advanced commercial applications

 xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES	Three-pole + N
NUMBER OF POLES (TOTAL)	4
NUMBER OF POLES (PROTECTED)	3
TRIPPING CHARACTERISTIC	D
RELEASE CHARACTERISTIC	D
AMPERAGE RATING	13 A
ТҮРЕ	FAZMiniature circuit breaker

Technical data - elect	rical
VOLTAGE TYPE	AC
VOLTAGE RATING	240 V AC / 415 V AC
VOLTAGE RATING AT DC	60 V DC (per pole)
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 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)	15 kA
OPERATIONAL SWITCHING CAPACITY	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
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	2
LIFESPAN, ELECTRICAL	10000 operations
DIRECTION OF INCOMING SUPPLY	As required

Technical data - mech	nanical
FRAME	45 mm
ENCLOSURE WIDTH	80 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	4
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
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²
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

technical data **RATED OPERATIONAL CURRENT FOR SPECIFIED** 13 A **HEAT DISSIPATION (IN) HEAT DISSIPATION PER** 0 W POLE, CURRENT-**DEPENDENT EQUIPMENT HEAT DISSIPATION, CURRENT-**6.1 W **DEPENDENT STATIC HEAT DISSIPATION, NON-**0 W **CURRENT-DEPENDENT**

0 W

-25 °C

75 °C

HEAT DISSIPATION

AMBIENT OPERATING

TEMPERATURE - MIN AMBIENT OPERATING

TEMPERATURE - MAX

CAPACITY

Design verification as per IEC/EN 61439 -

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.

Additional information	
CURRENT LIMITING CLASS	3
FEATURES	Additional equipment possible Concurrently switching N-neutral
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
USED WITH	Miniature circuit breaker FAZ

INSULATING MATERIAL	
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.

D	
Resources	
CATALOGUES	eaton-xeffect-industrial- switchgear-range-catalog- ca003002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-mcb-xeffect-faz- characteristic-curve.eps
	eaton-mcb-tripping- characteristic-xeffect-faz- characteristic-curve- 002.eps
	eaton-mcb-current- xeffect-faz-characteristic- curve-002.eps
	eaton-mcb-current- xeffect-faz-characteristic- curve.eps
	eaton-mcb-xeffect-faz- characteristic-curve- 002.eps
	eaton-xeffect-faz-mcb- characteristic-curve.jpg
DECLARATIONS OF	DA-DC-03 FAZ-B-C-D
CONFORMITY	DA-DC-03_FAZ-DU
DRAWINGS	eaton-xeffect-faz-mcb- dimensions-004.jpg
	eaton-mcb-xeffect-faz- dimensions-004.eps
	eaton-xeffect-faz-mcb-3d- drawing-011.jpg
	eaton-mcb-faz-xeffect-faz- 3d-drawing-004.eps
	eaton-xeffect-faz-mcb-3d-drawing-012.jpg
	eaton-xeffect-faz-mcb-3d- drawing-003.jpg
ECAD MODEL	DA-CE-ETN.FAZ-D13 3N
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9- il019140zu.pdf
MCAD MODEL	faz 3pn 4p.stp
	faz 3pn 4p.dwg
PEP ECO-PASSPORT	EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-mcb-xeffect-faz- wiring-diagram-006.eps

eaton-xpole-mmc4-6-mmcb-wiring-diagram-<u>004.jpg</u>

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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