Specifications



Photo is representative

Eaton 168086

FAZ6-D50/3. Miniature circuit breaker (MCB), 50 A, 3p, characteristic: D, 6 kA

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ6 MCB
CATALOG NUMBER	168086
MODEL CODE	FAZ6-D50/3
EAN	4015081646616
PRODUCT LENGTH/DEPTH	85 mm
PRODUCT HEIGHT	73 mm
PRODUCT WIDTH	52.5 mm
PRODUCT WEIGHT	0.36 kg
COMPLIANCES	RoHS conform

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Delivery programme

NUMBER OF POLES	Three-pole
NUMBER OF POLES (TOTAL)	3
NUMBER OF POLES (PROTECTED)	3
RELEASE CHARACTERISTIC	D
AMPERAGE RATING	50 A

Technical data - electrical

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 (EC/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
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2

Technical data - mechanical

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^2
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm^2

Design verification as per IEC/EN 61439 - technical data

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

Additional information

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

Resources

APPLICATION NOTES	eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf
CATALOGUES	eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf eaton-xeffect-faz-mcb-catalog-ca003028en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-faz6-mcb-characteristic-curve.jpg eaton-xeffect-faz6-mcb-characteristic-curve-002.jpg
DECLARATIONS OF CONFORMITY	DA-DC-03_FAZ6
DRAWINGS	eaton-xeffect-faz-mcb-dimensions-003.jpg eaton-xeffect-faz6-mcb-3d-drawing-003.jpg eaton-xeffect-faz6-mcb-3d-drawing-006.jpg

INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	faz_3p.dwg faz_3p.stp
PEP ECO-PASSPORT	eaton-mcb-declaration-of-conformity-eu250396en.pdf EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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