## Specifications

## Eaton 102305

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-RT, 3-pole, tripping characteristic: D, rated current In: 7 A

General specificationsPRODUCT NAMEEaton Moeller series xEffect - FAZ-NA, FAZ-RT MCBCATALOG NUMBER102305MODEL CODEFAZ-D7/3-RTEAN4015081021819PRODUCT LENGTH/DEPTH105 mmPRODUCT WIDTH53.1 mmPRODUCT WIDTH53.1 mmPRODUCT WEIGHT0.37 kgCOMPLIANCESRoHS conformIEC 60947-2 UL 489 CSA (Class No. 1432-01) UL 489, CSA C22.2 No. 5 IEC/EN 60947-2 Specially designed for North America, suitable as BCPDCERTIFICATIONSNorth America (UL listed, CSA certified) CSA (File No. 204453) CE marking CSA-C22.2 No. 5-09 UL (Category Control Number DIVQ) UL (File No. E235139) EN45545-2 IEC 61373GLOBAL CATALOG102305		
PRODUCT NAME  xEffect - FAZ-NA, FAZ-RT MCB  CATALOG NUMBER  102305  MODEL CODE  FAZ-D7/3-RT  EAN  4015081021819  PRODUCT LENGTH/DEPTH  105 mm  PRODUCT WEIGHT  75.5 mm  PRODUCT WEIGHT  0.37 kg  COMPLIANCES  ROHS conform  IEC 60947-2 UL 489 CSA (Class No. 1432-01) UL 489, CSA C22.2 No. 5 IEC/EN 60947-2 Specially designed for North America, suitable as BCPD North America, suitable as BCPD North America (UL listed, CSA (File No. 204453) CE marking CSA-C22.2 No. 5-09 UL (Category Control Number DIVQ) UL (File No. E235139) EN45545-2 IEC 61373	General specification	ons
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GLOBAL CATALOG 102305	CERTIFICATIONS	UL 489 CSA (Class No. 1432-01) UL 489, CSA C22.2 No. 5 IEC/EN 60947-2 Specially designed for North America, suitable as BCPD North America (UL listed, CSA certified) CSA (File No. 204453) CE marking CSA-C22.2 No. 5-09 UL (Category Control Number DIVQ) UL (File No. E235139) EN45545-2
	GLOBAL CATALOG	102305



Product specification	S
USED WITH	Miniature circuit breaker FAZ-RT
AMPERAGE RATING	7 A
VOLTAGE RATING	277 V AC / 480 V AC
FEATURES	Additional equipment possible
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.
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

Resources	
BROCHURES	eaton-pdd-railrolling- stock-brochure- br011002en-en-us.pdf
CATALOGS	eaton-xeffect-faz-na-rt- mcb-catalog-ca003032en- en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-faz-na,-mcb- characteristic-curve- 002.jpg
	eaton-xeffect-faz-na,-mcb- 3d-drawing-009.jpg
	eaton-mcb-xeffect-faz-na,- characteristic-curve- 004.eps
	eaton-xeffect-faz-na,-mcb- 3d-drawing-010.jpg
	eaton-xeffect-faz-na,-mcb-dimensions-003.jpg
	eaton-xeffect-faz-na,-mcb- characteristic-curve.jpg
	eaton-mcb-xeffect-faz-na,- characteristic-curve- 003.eps
	DA-DC-03_FAZ-B-C-D
DECLARATIONS OF	DA DC 02 EA7 DT
CONFORMITY	DA-DC-03 FAZ-RT
	DA-DC-03_FAZ-DU
	eaton-xeffect-faz-na,-mcb- dimensions.jpg
DRAWINGS	
	eaton-mcb-xeffect-faz-na,- 3d-drawing-002.eps
ECAD MODEL	DA-CE-ETN.FAZ-D7_3-RT
INSTALLATION INSTRUCTIONS	<u>IL019133ZU</u>
MCAD MODEL	eaton-non-selective- universal-mcb-drawings- faz-na-3p.dwg
	eaton-non-selective- universal-mcb-3d-models- faz-na-3p.stp
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m- mcb-wiring-diagram- 005.jpg

	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 INSULATING MATERIAL	Is the panel builder's responsibility.
FRAME	45 mm
POLLUTION DEGREE	2
MOUNTING METHOD	Top-hat rail IEC/EN 60715
DEGREE OF PROTECTION	IP40 (when fitted) UL/CSA Type: - IP20 (IEC) IP20
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	4.3 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TRIPPING CHARACTERISTIC	D
AMBIENT OPERATING TEMPERATURE - MAX	75 °C

eaton-mcb-xeffect-faz-na,wiring-diagram-002.eps

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
CURRENT LIMITING CLASS	3
ENCLOSURE WIDTH	105 mm
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 W
DIRECTION OF INCOMING SUPPLY	As required
WIDTH IN NUMBER OF MODULAR SPACINGS	3
VOLTAGE RATING (IEC/EN 60947-2)	415 V
VOLTAGE RATING (UL)	480Y/277 V
VOLTAGE RATING AT DC	60 V DC
VOLTAGE TYPE	AC
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole
FUNCTIONS	Current limiting circuit breaker
LIFESPAN, ELECTRICAL	20000 operations

RELEASE	
CHARACTERISTIC	D
ТҮРЕ	<ul><li>FAZ-RT</li><li>Miniature circuit breaker</li></ul>
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
APPLICATION	<ul> <li>Feeder circuits, branch circuits</li> <li>Switchgear for industrial and advanced commercial applications</li> <li>xEffect - Switchgear for industrial and advanced commercial applications</li> </ul>
MOUNTING WIDTH	17.7 mm
SELECTIVITY CLASS	3
MOUNTING WIDTH PER POLE	17.7 mm
NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	3
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	7 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V	0 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

RATED SWITCHING
CAPACITY (IEC/EN 609472)

STATIC HEAT
DISSIPATION, NONCURRENT-DEPENDENT

UL: 2.4 Nm (21 lb-in) for
AWG 18 - AWG 12

Max. 2.4 Nm UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8

UL: 4 Nm (36 lb-in) for

AWG 6

POWER LOSS 4.2 W

**TIGHTENING TORQUE** 

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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