Specifications





Eaton 190842

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. Miniature circuit breaker (MCB), 35 A, 4p, characteristic: D, NA

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB
CATALOG NUMBER	190842
MODEL CODE	FAZ-D35/4-NA
EAN	4015081904891
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	70.8 mm
PRODUCT WEIGHT	0.508 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC 60947-2 North America (UL listed, CSA certified) Specially designed for North America, suitable as BCPD UL 489 UL (Category Control Number DIVQ) UL 489, CSA C22.2 No. 5 CSA-C22.2 No. 5-09 CSA (Class No. 1432-01) IEC/EN 60947-2 CE marking UL (File No. E235139) CSA (File No. 204453) EN45545-2 IEC 61373



Delivery program

APPLICATION	 Feeder circuits, branch circuits Switchgear for export to North America (UL-listed) xEffect - Switchgear for industrial and advanced commercial applications
NUMBER OF POLES	Four-pole
NUMBER OF POLES (TOTAL)	4
NUMBER OF POLES (PROTECTED)	4
TRIPPING CHARACTERISTIC	D
RELEASE CHARACTERISTIC	D
AMPERAGE RATING	35 A
ТҮРЕ	FAZ-NAMiniature circuit breaker

Technical data - electrical		
VOLTAGE TYPE	AC	
VOLTAGE RATING	277 V AC / 480 V AC	
VOLTAGE RATING AT DC	60 V DC	
VOLTAGE RATING (IEC/EN 60947-2)	415 V	
VOLTAGE RATING (UL)	240 V	
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 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	15 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	14 kA	
ADMISSIBLE BACK-UP FUSE - MAX	125 A gL/gG	
SELECTIVITY CLASS	3	
OVERVOLTAGE CATEGORY	ш	
POLLUTION DEGREE	2	
LIFESPAN, ELECTRICAL	min. 1500 operations min. 6000 operations (UL)	
DIRECTION OF INCOMING SUPPLY	As required	

Technical data - mechanical

rechinical data - meci	
FRAME	45 mm
ENCLOSURE WIDTH	105 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	4
BUILT-IN DEPTH	60 mm
MOUNTING WIDTH PER POLE	17.7 mm
MOUNTING WIDTH	17.7 mm
MOUNTING METHOD	Top-hat rail IEC/EN 60715
MOUNTING POSITION	As required
DEGREE OF PROTECTION	IP20 (IEC) IP20 IP40 (when fitted) UL/CSA Type: -
TERMINALS (TOP AND BOTTOM)	Lift terminal / ring-tongue
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
CONTACT POSITION INDICATOR COLOR	Red / green
TIGHTENING TORQUE	Max. 2.4 Nm UL: 4 Nm (36 lb-in) for AWG 6 UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 2.4 Nm (21 lb-in) for

Design verification as per IEC/EN - technical data	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	35 A
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 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
AMBIENT OPERATING TEMPERATURE (UL) - MIN	-5 °C
AMBIENT OPERATING TEMPERATURE (UL) - MAX	40 °C

	AWG	18 -	AWG	12
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LIFESPAN, MECHANICAL 10000 operations

Design verification as per	r IEC/EN 61439
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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	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF	ls the panel builder's responsibility.

Additional information

Additional information	
ACCESSORIES REQUIRED	Z-IHK-NA 113895
CURRENT LIMITING CLASS	3
FEATURES	Additional equipment possible
FITTED WITH:	Z-IS/SPE-1TE 274418
FUNCTIONS	Current limiting circuit breaker
INTERNAL RESISTANCE AT ROOM TEMPERATURE (SINGLE-POLE, 50 HZ)	2.5 mΩ
SPECIAL FEATURES	 Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity Tripping signal contact for subsequent installation Z-NHK 248434
SUITABLE FOR	Flush-mounted installation
USED WITH	FAZ-XAA-NA110-415V AC 102036 (Shunt trip release) FAZ-XAA-NA12- 110V AC 102037 (Shunt trip release) FAZ-NA Miniature circuit breaker FAZ-XAA-NA110-415V AC 102036 (Shunt trip release) FAZ-XAA-NA12-110V AC 102037 (Shunt trip release)

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.

Resources

BROCHURES	<u>eaton-pdd-railrolling-</u> <u>stock-brochure-</u> <u>br011002en-en-us.pdf</u>
CATALOGUES	<u>eaton-xeffect-faz-na-rt-</u> <u>mcb-catalog-ca003032en-</u> <u>en-us.pdf</u>
	eaton-xeffect-faz-na,-mcb- dimensions-004.jpg
CHARACTERISTIC CURVE	<u>eaton-xeffect-faz-na,-mcb-</u> <u>characteristic-curve-</u> <u>002.jpg</u>
	<u>eaton-mcb-xeffect-faz-na,-</u> <u>characteristic-curve-</u> <u>002.eps</u>
	<u>eaton-xeffect-faz-na,-mcb-</u> <u>3d-drawing-004.jpg</u>
	<u>eaton-mcb-xeffect-faz-na,-</u> <u>characteristic-curve.eps</u>
	<u>eaton-xeffect-faz-na,-mcb-</u> <u>3d-drawing-008.jpg</u>
	<u>eaton-xeffect-faz-na,-mcb-</u> <u>characteristic-curve.jpg</u>
	DA-DC-03_FAZ-DU
DECLARATIONS OF CONFORMITY	DA-DC-03_FAZ-NA
	DA-DC-03 FAZ-B-C-D
DRAWINGS	<u>eaton-xeffect-faz-na,-mcb-</u> <u>dimensions.jpg</u>
ECAD MODEL	ETN.FAZ-D35_4-NA.edz
INSTALLATION INSTRUCTIONS	IL019133ZU
	DA-CD-faz_na_4p
MCAD MODEL	DA-CS-faz_na_4p
WIRING DIAGRAMS	<u>eaton-xpole-mmc4-6-m-</u> <u>mcb-wiring-diagram-</u> <u>006.jpg</u>

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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