

Specifikace



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Eaton 174509

Eaton Moeller series xEffect - AZ MCB.
Miniature circuit breaker (MCB), 40A, 3p,
type B characteristic

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB
CATALOG NUMBER	174509
EAN	4015081709656
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	81 mm
PRODUCT WEIGHT	0.669 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN45545-2 IEC 61373
MODEL CODE	AZ-3-B40



Powering Business Worldwide

Delivery program

APPLICATION

- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES Three-pole

NUMBER OF POLES (TOTAL) 3

NUMBER OF POLES (PROTECTED) 3

TRIPPING CHARACTERISTIC B

RELEASE CHARACTERISTIC B

AMPERAGE RATING 40 A

TYPE

- AZ
- Miniature circuit breaker

Technical Data - Electrical

VOLTAGE TYPE AC

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) 25 kA

OVERVOLTAGE CATEGORY III

POLLUTION DEGREE 2

Technical Data - Mechanical

WIDTH IN NUMBER OF MODULAR SPACINGS 4.5

BUILT-IN DEPTH 75 mm

DEGREE OF PROTECTION IP20

CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN 2.5 mm²

CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX 50 mm²

CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN 2.5 mm²

CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX 50 mm²

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 40 A

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT 4.4 W

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT 13.2 W

STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT 0 W

HEAT DISSIPATION CAPACITY 0 W

AMBIENT OPERATING TEMPERATURE - MIN -25 °C

AMBIENT OPERATING TEMPERATURE - MAX 55 °C

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	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is 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.
10.10 TEMPERATURE RISE	The panel builder is responsible for the

Additional information

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

	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.

Zdroje

APLIKAČNÍ POZNÁMKY

[eaton-quality-standards-for-railway-applications-application-paper-ap003005en-en-us.pdf](#)

[eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[eaton-mcb-declaration-of-conformity-eu250431en.pdf](#)

ECAD MODEL

[ETN.AZ-3-B40.edz](#)

CHARACTERISTIC CURVE

[eaton-xeffect-az-mcb-characteristic-curve.jpg](#)

[eaton-xeffect-az-mcb-characteristic-curve-003.jpg](#)

INSTALAČNÍ NÁVODY

[IL019148ZU](#)

MCAD MODEL

[eaton-az_mcb_3p-drawing.dwg](#)

[eaton-az_mcb_3p-3d-model.stp](#)

SCHÉMATA ZAPOJENÍ

[eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg](#)

VÝKRESY

[eaton-xpole-mmct-mcb-dimensions.jpg](#)

[eaton-xeffect-az-mcb-3d-drawing.jpg](#)

[eaton-xeffect-az-mcb-3d-drawing-002.jpg](#)

NÁZEV PROJEKTU:

ČÍSLO PROJEKTU:

PŘIPRAVIL:

DATUM:



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