Specifications



Photo is representative

Eaton 174522

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

General specifications		
PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB	
CATALOG NUMBER	174522	
MODEL CODE	AZ-3N-B40	
EAN	4015081709786	
PRODUCT LENGTH/DEPTH	75 mm	
PRODUCT HEIGHT	90 mm	
PRODUCT WIDTH	108 mm	
PRODUCT WEIGHT	0.836 kg	
COMPLIANCES	RoHS conform	
CERTIFICATIONS	EN45545-2 IEC 61373	
GLOBAL CATALOG	174522	



Product specification:	S
USED WITH	Miniature circuit breaker AZ
AMPERAGE RATING	40 A
FEATURES	Additional equipment possible Concurrently switching Nneutral
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.
40.05 LIFTING	Does not apply, since the
10.2.5 LIFTING	entire switchgear needs to be evaluated.

Resources	
APPLICATION NOTES	eaton-maximum-cable- lengths-for-eatons- protective-devices- brochure-br034006en-en- us.pdf
	eaton-quality-standards- for-railway-applications- application-paper- ap003005en-en-us.pdf
BROCHURES	eaton-pdd-railrolling- stock-brochure- br011002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-az-mcb- characteristic-curve- 003.jpg
	<u>eaton-xeffect-az-mcb-</u> <u>characteristic-curve.jpg</u>
DECLARATIONS OF CONFORMITY	DA-DC-03_AZ
DRAWINGS	eaton-mcb-xeffect-az- dimensions-002.eps
	eaton-xpole-mmct-mcb- dimensions.jpg
	eaton-xeffect-az-mcb-3d- drawing.jpg
	eaton-xeffect-az-mcb-3d- drawing-002.jpg
ECAD MODEL	ETN.AZ-3N-B40.edz
INSTALLATION INSTRUCTIONS	IL019148ZU
MCAD MODEL	eaton-az mcb 3pn-3d- model.stp eaton-az mcb 3pn-
	drawing.dwg
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m- mcb-wiring-diagram- 004.jpg

IMPACT	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 INSULATING MATERIAL	ls the panel builder's responsibility.
POLLUTION DEGREE	2
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	15.4 W 13.2 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TRIPPING CHARACTERISTIC	В
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	75 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	50 mm²
CONNECTABLE	2.5 mm ²

CONDUCTOR CROSS	
SECTION (MULTI-WIRED) - MIN	
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	50 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	2.5 mm ²
CURRENT LIMITING CLASS	3
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	4.4 W
WIDTH IN NUMBER OF MODULAR SPACINGS	6
VOLTAGE TYPE	AC
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole + N
RELEASE CHARACTERISTIC	В
ТҮРЕ	AZMiniature circuit breaker
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
APPLICATION	 Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	4
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 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	25 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	25 kA
RATED SWITCHING CAPACITY (IEC/EN 60947- 2)	25 kA
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









