## DATASHEET - AZ-3-C40

Miniature circuit breaker (MCB), 40A, 3p, C-Char



Part no.	AZ-3-C40
	211786
EL Number	1601057
(Norway)	

General specifications	
Product name	Eaton Moeller series xEffect - AZ MCB
Part no.	AZ-3-C40
EAN	4015082117863
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	81 millimetre
Product weight	0.669 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename	xEffect - AZ MCB
Product Type	МСВ
Product Sub Type	None
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	C
Release characteristic	C
Amperage Rating	40 A
Туре	AZ Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC
Voltage rating	230 V AC / 400 V AC
Voltage rating at DC	60 V DC (per pole)
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
Operational switching capacity	20 kA
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
Admissible back-up fuse - max	200 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	III
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm

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Carnetable conductor crass section individed - min     25 mm <sup>3</sup> Connectable conductor crass section individed - max     50 mm <sup>3</sup> Terminal cargency correl catalog     50 mm <sup>3</sup> Terminal cargency correl catalog     Frager and hand nucle sate, DEOV X53, EN S0214       Terminal cargency correl catalog     60 A       Read operational corrent-dependent     60 A       Excition problem     60 A       Excition problem     60 A       Static heat dissipation, one-current-dependent     60 A       Read operational corrent-dependent     60 A       Read operational corrent-dependent     60 A       Read operational corrent-dependent     60 A       Read displation, one-current-dependent     75 °C       Animiter operating temperature - min     75 °C       Animiter operating temperature - min     75 °C       102.23 Verification of temperature - min     75 °C       102.23 Verification of temperature - min     75 °C       102.24 Mexication of temperature - min     75 °C       102.25 Urgencianting temperature - min     76 °C       102.24 Verification of temperature - min     76 °C       102.24 Verification of temperature - min     76 °C       102.25 Urgencianting temperature - min     76 °C       102.24 Verification of estating di archazers     76 °C       102.24 Verification of testating di archazer	Connectable conductor cross section (solid-core) - min	2.5 mm <sup>2</sup>
Connectable canductor cross section junitiving) - max     SI mm <sup>2</sup> Terminal capacity (control calle)     Finder and section in the control of the control	Connectable conductor cross section (solid-core) - max	50 mm <sup>2</sup>
Terminal capacity (control cable)     25 mm <sup>2</sup> - 58 mm <sup>3</sup> Terminal protection     Finger and hand touch sette, DRUV VS3, IM 50274       Design verification as per IE/C/EN 6439 - tochnical data     40 A       Ratid operational current for specified hand dissipation. Univ     40 A       Equipment theat dissipation, current dependent     00       Equipment theat dissipation, current dependent     00       Rest depending temperature - min     00       Ambient operating temperature - min     Metic the product standard is requirements.       102.21 Verification as per IE/C/EN 61439     Metic the product standard is requirements.       102.21 Verification of thermit abulfine by internal dect affect     Metic the product standard is requirements.       102.21 Verification of thermit abulfine by internal dect affect     Metic the product standard is requirements.       102.21 Verification of assembles     Des not apply, since the entre sovitchpare medits to avalated.       102.21 Metistate of instance of inst	Connectable conductor cross section (multi-wired) - min	2.5 mm <sup>2</sup>
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Ratad operational current for specified heat dissipation (in)     A4 A       Heat dispiration current for specified heat dissipation (in)     UW       Equipment heat dissipation, current-dependent     3.3 W       Staine heat dissipation, current-dependent     UW       Ambient operating temperature - min     -25 °C       D2.3 Vordication of temma stability of enclosures     Meets the product standard's requirements.       10.2.3 Vordication of restature of testature of t	Design verification as per IEC/EN 61439 - technical data	
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102.32 Verification of resistance of insulating materials to normal heat/fire by internal elect. effects       Meets the product standard's requirements.         102.43 Resist. of insul. mat to abnormal heat/fire by internal elect. effects       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.5 Michanical impact       Does not apply, since the entire switchgear needs to be evaluated.         102.1 Instriptions       Meets the product standard's requirements.         103.0 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 Incorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         10.2 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Is the panel builder's responsibility.         10.2 Protection against electric shock       Is the panel builder's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Iternal electric al circuit rating       Is the panel builder's responsibility.         10.9.4 Testing of enclosures made of insulating material       Is the panel builder's responsibility.	10.2.2 Corrosion resistance	
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10.2.4 Besistance to ultra-wiolet (UV) rediationImage: Contract of the second seco	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 Lifting       Dees not apply, since the entire switchgear needs to be evaluated.         10.2.6 Mechanical impact       Dees not apply, since the entire switchgear needs to be evaluated.         10.3.0 Degree of protection of assemblies       Dees not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Dees not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Dees not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Dees not apply, since the entire switchgear needs to be evaluated.         10.5 Incorporation of switching devices and components       Dees not apply, since the entire switchgear needs to be evaluated.         10.7 Internal electricial circuits and connections       Is the panel builder's responsibility.         10.8.2 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.         10.11 Short-circuit rating       Is the panel builder's responsibility.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must be observed.         10.13 Mechanical function       Is the panel builder's responsibility. The specifications for the switchgear mu	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.5 Mechanical impactImpactDees not apply, since the entire switchgear needs to be evaluated.10.3.1 Degree of protection of assembliesMeets the product standard's requirements.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDees not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDees not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsImpact is the panel builder's responsibility.10.7 Internal electrical circuits and connectionsImpact is the panel builder's responsibility.10.9.2 Power-frequency electric strengthImpact is the panel builder's responsibility.10.9.3 Impulse withstand voltageImpact is the panel builder's responsibility.10.10 Temperature riseImpact is the panel builder's responsibility.10.11 Short-circuit ratingImpact is the panel builder's responsibility.10.12 Electromagnetic compatibilityImpact is the panel builder's responsibility.10.13 Mechanical functionImpact is the panel builder's responsibility.Additional informationImpact is the panel builder's responsibility.Additional functionImpact is the panel builder's responsibility.Additional equipment possibleImpact is the panel builder's responsibility.10.13 Mechanical functionImpact is the panel builder's responsibility.Additional equipment possibleImpact is the panel builder's responsibility.Additional functionImpact is the panel builder's responsibility. <td>10.2.4 Resistance to ultra-violet (UV) radiation</td> <td>Meets the product standard's requirements.</td>	10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.21 InscriptionsImage: Construction of assembliesImage: Construction of assembliesImage: Construction of assemblies10.4 Clearances and creepage distancesMeets the product standard's requirements.Meets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDoes not apply, since the entire switchgear needs to be evaluated.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.1 Stating of anclosures made of insulating materialIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility.10.12 Electromagnetic compatibilityIs the panel builder's responsibility.10.13 Mechanical functionImage: Compatibility is observed.10.13 Mechanical functionImage: Compatibility is observed.10.13 Mechanical functionImage: Compatibility is observed.Additional informationImage: Compatibility is observed.Current limiting class3FeaturesAdditional equipment possibleMeets the informationAdditional equipment possibleUsed withImage: CompatibilityUsed withImage: CompatibilityImage: CompatibilityImage: Compatibility10.12 Electromagnetic compatibilityImage: Compatibility	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies       Dees not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Dees not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Dees not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Dees 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       Is the panel builder's responsibility.         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.         Additional information       It he device meets the requirements, provided the information in the instruction elefant (IL) is observed.         Special features       3         Additio	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
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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       Is the panel builder's responsibility.         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       Is the panel builder's responsibility. The specifications for the switchgear must be observed.         Additional information       3         Current limiting class       3         Features       Additional equipment possible         Que with       We with	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components       Oes 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       Is the panel builder's responsibility.         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       Is the panel builder's responsibility. The specifications for the switchgear must be observed.         10.13 Mechanical function       Is the panel builder's responsibility. The specifications for the switchgear must be observed.         Additional information       Is device meets the requirements, provided the information in the instruction leafter (IL) is observed.         Special features       Additional equipment possible         Used with       We with       Az	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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       Is the panel builder's responsibility.         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       Is the panel builder's responsibility. The specifications for the switchgear must be eatter the requirements, provided the information in the instruction eatter the eatter the requirements, provided the information         Current limiting class       3         Features       Additional equipment possible         Special features       Additional equipment possible         Used with       Web	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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's responsibility.         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 (ILI) is observed.         Current limiting class       3         Features       Additional equipment possible         Special features       Additional equipment possible         Used with       Used with	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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's responsibility.         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.         Current limiting class       3         Features       Additional equipment possible         Special features       Additional equipment possible         Used with       Az	10.7 Internal electrical circuits and connections	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's responsibility.         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 leafter (IL) is observed.         Additional information       Special features         Special features       Additional equipment possible         Used with       Used with	10.8 Connections for external conductors	Is the panel builder's responsibility.
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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.         Additional information       The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.         Features       3         Special features       Additional equipment possible         Used with       Az	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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10.12 Electromagnetic compatibility       observed.         10.13 Mechanical function       Image: Compatibility of the synthesis of the synthesynthesis of the synthesis of the synthesis	10.10 Temperature rise	
10.13 Mechanical function     Image: Constraint of the served.       Additional information     Image: Constraint of the served.       Current limiting class     Image: Constraint of the served.       Features     Additional equipment possible       Special features     Additional equipment possible       Used with     Image: Constraint of the served.	10.11 Short-circuit rating	
Additional information     Image: Current limiting class     Image: Current limiting class     Image: Current limiting class       Features     3       Special features     Additional equipment possible       Used with     Az	10.12 Electromagnetic compatibility	
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	10.13 Mechanical function	
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	Additional information	
Special features     Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity       Used with     AZ	Current limiting class	3
Used with AZ	Features	Additional equipment possible
	Special features	
	Used with	

## **Technical data ETIM 9.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)		
Electric engineering, automation, process control engineering / Electrical installation [AAB905019])	n, device / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01
Built-in depth	mm	75
Release characteristic		C
Number of poles (total)		3
Number of protected poles		3
Rated current	А	40
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	0
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	25
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	25
Frequency	Hz	50 - 60
Power loss	W	
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	2.5 - 50
Connectable conductor cross section solid-core	mm²	2.5 - 50
Explosion-proof		No