## DATASHEET - FAZ-D40/4

## Miniature circuit breaker (MCB), 40 A, 4p, characteristic: D



Part no.	FAZ-D40/4
	279088
EL Number	1695244
(Norway)	

General specifications	
Product name	Eaton Moeller series xEffect - FAZ MCB
Part no.	FAZ-D40/4
EAN	4015082790882
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	72 millimetre
Product weight	0.467 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60898 IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename	xEffect - FAZ
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	Four-pole
Number of poles (total)	4
Number of poles (protected)	4
Tripping characteristic	D
Release characteristic	D
Amperage Rating	40 A
Туре	FAZ Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC
Voltage rating	240 V AC / 415 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)	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	10 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
Admissible back-up fuse - max	125 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	

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Connectable conductor cross section (solid cara) - min       25 mm <sup>2</sup> Connectable conductor cross section (solid cara) - max       25 mm <sup>2</sup> Connectable conductor cross section (solid cara) - max       25 mm <sup>2</sup> Connectable conductor cross section (solid cara) - max       28 mm <sup>2</sup> Terminal capacity of activation constant for main cable       28 mm <sup>2</sup> Terminal capacity of activation constant for main cable       Figury and hand twoich cafa, DOUVVS3, FM 5024         Basker material for knows       28 mm <sup>2</sup> Design vorification as part ECEN 61339 - technical data       40 A         Heat dissipation per piol, current dispedient in max       10 MV         Parties dispedient construction (Solid Solid Caraa)       40 A         Heat dispedients, mercannet dependent       12 MV         State has dispedient, mercannet dependent       12 MV         Malest operating in market dispedient       25 °C         Malest operating in market dispedient in max       25 °C         Malest operating in market dispedient in max       26 °C         Malest operating in market dispedient in max       26 °C         Malest operating in market dispedient in max       26 °C         Malest operating in market dispedient in max       26 °C         Malest operating in market dispedient in ma	Degree of protection	
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Connectable conductor cross section multi-wired - max       Imm <sup>1</sup> Connectable conductor cross section multi-wired - max       25 mm <sup>1</sup> Terminal capacity former durables for main cable       25 mm <sup>1</sup> Terminal capacity former durables for main cable       25 mm <sup>1</sup> Terminal capacity former durables for main cable       26 mm <sup>1</sup> Dealar mutrint forkers       26 mm <sup>1</sup> Dealar mutrint forkers       26 mm <sup>1</sup> Rate dissipation as per IEC/EN 61439 - technical data       40 A         Heat dissipation, non-current dependent       27 mm <sup>1</sup> Stack indication transm <sup>1</sup> dependent       00 W         Ambient operating temperature - min       00 W         Ambient operating temperature - min       00 W         Design terms functions as per IEC/EN 61439       00 W         Design temperature - min       00 W         Dis22 Corrasion testance       00 W         Dis22 Discination as the durabity origin antesista to normal hat       00 W	Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Contextable conductor cross section (multi-wined) - max   Smm <sup>2</sup> Terminal capacity of career terminals for main cable   Torm <sup>1</sup> (2x)     Terminal capacity of career terminals for main cable   Torm <sup>1</sup> (2x)     Terminal capacity (corrol cable)   Figure and hand such cash, DSUV (33, EN 502/4)     Basker material inficiences   An A     Basker material inficiences   An A     Basker material inficiences   An A     Read careation a current for specified head dissipation (b)   An A     Next dissipation capacity   An A     Equipment thest dissipation, current-dependent   OW     Statc heat dissipation, current-dependent   OW     Aubert reporting termperture - min   An A     Total Cash Statu Ca	Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Terminal capazity of acrow terminals for main cable       Imminal capazity (centrol cable)       Zamin' (1)         Terminal capazity (centrol cable)       Expanse and hand bush safe, DGUV VS3, EN 56274         Bushar material fluctures       Bame - 2 mm         Rata operational current to specified heat dissipation (m)       404 A A A A A A A A A A A A A A A A A A	Connectable conductor cross section (multi-wired) - min	1 mm <sup>2</sup>
Terminal capazity of acrow terminals for main cable       Imminal capazity (centrol cable)       Zamin' (1)         Terminal capazity (centrol cable)       Expanse and hand bush safe, DGUV VS3, EN 56274         Bushar material fluctures       Bame - 2 mm         Rata operational current to specified heat dissipation (m)       404 A A A A A A A A A A A A A A A A A A	Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Immin Logacity (contral called)       Immin Logacity (contral called)         Terminal practicins       Forger and hand back side, DBUV VS3, EN 95274         Busker matrixit diktoress       Immin Logacity (contral called)         Design verification as per IEC/EN 91439 - tochnical data       Immin Logacity (contral called)         Rated operational current for specified heat dissipation (in)       Immin Logacity (contral called)         Bed dissipation get pole, current dependent       Immin Logacity (Contral called)         Static heat dissipation, current dependent       Immin Logacity (Contral called)         Static heat dissipation, current dependent       Immin Logacity (Contral called)         Aubient operating temperatures min       Immin Logacity (Contral called)         102.2 Consiston resistance       Immin Logacity (Contral called)         102.3 Verification of themit labeling materials to normal heat       Immin Logacity (Contral called)         102.3 Verification of demain labeling materials to normal heat       Immin Logacity (Contral called)         102.3 Verification of demain labeling materials to normal heat       Immin Logacity (Contral called)         102.4 Resistance to ultra-violet (UV) radiato       Immin Logacity (Contral called)         102.4 Resistance to ultra-violet (UV) radiato       Immin Logacity (Contral called)         102.5 Unfreq       Immin Logacity (Contral called) <td></td> <td></td>		
Terminal protection       Progra and hand book iselo, OBUV V33, EN 5274         Busing material functions       Progra and hand book iselo, OBUV V33, EN 5274         Design verification as per IE/CFN 61439 - technical data       OA         Read operational current for specified hast dissipation (In)       OA         Heat dissipation, current dependent       OV         Static hast dissipation, concurrent dependent       OV         Static hast dissipation, concurrent dependent       OV         Andbest dissipation, concurrent dependent       OV         Andbest dissipation, concurrent dependent       OV         Andbest dissipation, concurrent dependent       OV         Rest dissipation capacity       OV         Dissipation of themal stability of enclosures       Meets the product standard's requirements.         IB2.3.2 Vericination of restature of instalting materials to normal heat       Meets the product standard's requirements.         IB2.3.2 Vericination of restature of instalting materials to normal heat       Meets the product standard's requirements.         IB2.3.2 Vericination of restature of instalting materials to normal heat       Meets the product standard's requirements.         IB2.3.2 Vericination as preficient disassembles       Meets the product standard's requirements.         IB2.3.2 Vericination assembles       Meets the product standard's require		
Bestar material thickness       08 mm - 2 mm         Design verification as per LECEN 61439 - technical data       04         Rate operational current or specifie that dissipation (in)       0W         Hatt dissipation, non-current-dependent       0W         Equipment heat dissipation, current-dependent       0W         Rate operational generature - min       0W         Antherit generature - min       0W         Authorit generature - min       0W         Design verification as per LECEN 61439       0W         Design verification as per LECEN 61439       0W         Discommentation of particitien seture - min       Nets the product standard's requirements.         Discommentation of requirements.       Nets the product standard's requirements.         Discommentation of stations of requirements.       Nets the product standard's requirements.		
Design verification as per IEC/EN 61439 - technical data     40 A       Rated aparational current for specified heat dissipation (in)     40 A       Beat dissipation, per pole, current-dependent     00       Equipment heat dissipation, current-dependent     00       Mat dissipation, current-dependent     00       Ambient operaining temperature - min     00       Ambient operaining temperature - min     00       Ambient operaining temperature - max     00       02.2 Corresion resistance     Mests the product standard's requirements.       102.2.2 Corresion of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of disematerials to anomal heat     Mests the product standard's requirements.       102.2.2 Urrigication of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of insulting materials to anomal heat     Mests the product standard's requirements.       102.3.2 Verification of insulting materials to anomal heat <t< td=""><td></td><td></td></t<>		
Rate doperational current for specified heat dissipation (in)     Path dissipation current for specified heat dissipation (incrent dependent)       Equipment heat dissipation, current-dependent     0V       Exitic heat dissipation, concurrent dependent     0V       Heat dissipation, capacity     0V       Anthent operating temperature - min     0V       Anthent operating temperature - max     0       Design verification as part IE/CH 61439     0V       10.2.2 Corrosion resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.3 Verification of resistance     Meets the product standard's requirements.       10.2.4 Meetshici inspect     Does not apply, since the entire switchpaar needs to be evaluated.       10.2.5 Meetshici inspect     Does not apply. Since the entire switchpaar needs to be evaluated.       10.2.5 Meetshici inspect     Does not apply. Since the entire switchpaar needs to be evaluated. <t< td=""><td></td><td></td></t<>		
Heat dissipation per pole, current-dependent       0 W         Equipment heat dissipation, current-dependent       128 W         Static heat dissipation, current-dependent       0 W         Heat dissipation current-dependent       0 W         Ambient operating temperature - min       -25 °C         Ambient operating temperature - max       0 W         Doign verification as per IEC/EN 61439       Wests the product standard's requirements.         102.2.1 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to normal heat the product standard's requirements.       Meets the product standard's requirements.         102.3.2 Verification of insulating materials to normal heat       Meets the product standard's requirements.         102.3.3 Verification of insulating materials to normal heat       Meets the product standard's requirements.         102.3.1 Verification of insulating materials to normal heat       Meets the product standard's requirements.         102.3.1 Verification of insulating materials to normal heat       Meets the product standard's requirements.         102.3.1 Verification of subtlew protocol assembles       Meets the product standard's requirements.         102.4 Bestisting encotection of assembles       Meets the product standard's requirements.         102.5 Lifting       M		
Equipment hast dissipation, corrent-dependent       128 W         State heat dissipation, concurrent-dependent       0 W         Heat dissipation capacity       0 W         Ambient operating semperature - min       25 °C         Ambient operating semperature - max       7 °C         Dosign verification as per IEC/EN 61439       7 °C         102.2 Corrosion resistance       Meets the product standard's requirements.         102.3 Verification of centrator of insulating materials to normal heat       Meets the product standard's requirements.         102.3 Verification of resistance       Meets the product standard's requirements.         102.3 Verification of existance of insulating materials to normal heat       Meets the product standard's requirements.         102.3 Verification of existance of insulating materials to normal heat       Meets the product standard's requirements.         102.3 Verification of existance of insulation materials to normal heat       Meets the product standard's requirements.         102.2 Verification of centrator of insulation materials to normal heat       Meets the product standard's requirements.         102.2 Verification against electric       Meets the product standard's requirements.         102.2 Meets and archeve and the product standard's requirements.       Meets the product standard's requirements.         102.2 Meetrinde Meets the product standard's requirements.		
Static heat dissipation, non-current-dependent   Image: space of the		
Head dissipation capacity     Image: Construct of the service of the	Equipment heat dissipation, current-dependent	12.8 W
Ambient operating temperature - min       25°C         Ambient operating temperature - max       75°C         Design verification as par IEC/EN 51439       75°C         102.2 Corrosion resistance       Meets the product standard's requirements.         102.2.1 Verification of temi stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.3.2 Verification of assembles       Meets the product standard's requirements.         102.3.2 Verification of assembles       Meets the product standard's requirements.         102.4 Meets the product standard's requirements.       Meets the product standard's requirements.         102.5 Meetanies impact       Meets the product standard's requirements.         102.5 Meetanies impact       Meets the product standard's requirements.         103.2 Degree of protection of assembles       Meets the product standard's requirements.         103.2 Meetanies       Meets the product standard's requirements.         104.0 Rearances and creepsed istances       Meets the product standard's requirements.         105.5 Meetanies and conceptoners       Meets the product standard's requirements.         104.1 Rearances and creepsed istances       Meets the product standard's requirements.         104.5 M	Static heat dissipation, non-current-dependent	0 W
Ambient operating temperature - max       75 °C         Design verification as per IEC/EN 61439       Meets the product standard's requirements.         102.2 Corrosion resistance       Meets the product standard's requirements.         102.3.1 Verification of transl stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.3.2 Meets of insul. not to binnemal 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 Uffing       Does not apply, since the entire switchgear needs to be evaluated.         102.5 Inscriptions       Meets the product standard's requirements.         103.0 perce of protection of assemblies       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104.1 Charant electrics lock       Does not apply, since the entire switchgear needs to be evaluated.         105.2 Frotection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104.1 Charant electrics lock       Does not apply, since the entire switchgear needs to be evaluated.         105.8 p	Heat dissipation capacity	0 W
Design verification as per IEC/EN 61439       Mets the product standard's requirements.         10.2.2 Corrosion resistance       Mets the product standard's requirements.         10.2.3.1 Verification of tremal stability of enclosures       Mets the product standard's requirements.         10.2.3.2 Verification of resistance of insulating materials to normal heat       Mets the product standard's requirements.         10.2.3.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects       Mets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Mets the product standard's requirements.         10.2.5 Urification of assemblies       Mets the product standard's requirements.         10.2.5 Urification of assemblies       Mets the product standard's requirements.         10.2.5 Urification of assemblies       Mets the product standard's requirements.         10.3 Degree of protection of assemblies       Mets the product standard's requirements.         10.4 Degrames and components       Mets the product standard's requirements.         10.6 Decorporchy electric strength       Mets the product standard's requirements.         10.8 Decorporchy electric strength       Mets the product standard's requirements.         10.9 Thermal electric al circuits and components       Mets the product standard's requirements.         10.9 Thermal electric al cincuits and connections       Mets the pro	Ambient operating temperature - min	-25 °C
10.22 Corresion resistance     Meets the product standard's requirements.       10.23.1 Verification of thermal stability of enclosures     Meets the product standard's requirements.       10.23.2 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       10.23.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects     Meets the product standard's requirements.       10.24 Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       10.25 Ulting     Does not apply, since the entire switchgear needs to be evaluated.       10.26 Mechanical impact     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 Degrae data and components     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.       10.8 Connections of switching devices and components     Is the panel builder's responsibility.       10.8 Connections of switching devices and components     Is the panel builder's responsibility.       10.8 Connections of switching devices and components     Is the panel builder's responsibility.       10.9 Protection exclusions     Is the panel builder's responsibility.       10.9 Protectin	Ambient operating temperature - max	75 °C
102.3.1 Verification of themal stability of anclosures     Meets the product standard's requirements.       102.3.3 Resist of insult mat to abnormal heat/fire by internal elect. effects     Meets the product standard's requirements.       102.3.3 Resist of insult 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 Lifting     Does not apply, since the entire switchgear needs to be avaluated.       102.7 Inscriptions     Meets the product standard's requirements.       103.2 Gree of protection of assemblies     Meets the product standard's requirements.       10.3 Fortection against electric shock     Does not apply, since the entire switchgear needs to be avaluated.       10.4 Clearances and creepage distances     Does not apply, since the entire switchgear needs to be avaluated.       10.4 Clearances and creepage distances     Does not apply, since the entire switchgear needs to be avaluated.       10.4 Clearances and creepage distances     Does not apply, since the entire switchgear needs to be avaluated.       10.4 Clearances and creepage distances     Does not apply, since the entire switchgear needs to be avaluated.       10.5 Protection against electric shock     Does not apply, since the entire switchgear needs to be avaluated.       10.8 Incorporation of switching devices and components     Is the panel bui	Design verification as per IEC/EN 61439	
10.2.2 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       10.2.3 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.       10.2.7 Inscriptions     Meets the product standard's requirements.       10.3 Degree of protection of assemblies     Meets the product standard's requirements.       10.4 Clearneces 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.       10.8 Concerdian for external conductors     Meets the product standard's requirements.       10.8 Concerdian for external conductors     Does not apply, since the entire switchgear needs to be evaluated.       10.8 Concerdian for external conductors     Is the panel builder's responsibility.       10.8 Connections for external conductors     Is the panel builder's responsibility.       10.8.1 Connections for external conductors     Is the panel builder's responsibility.       10.8.2 Fourier training     Is the panel builder's responsibility.       10.8.3 Innylase withstand voltage     Is the panel builder's responsibility. T	10.2.2 Corrosion resistance	Meets the product standard's requirements.
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	Current limiting class	3
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FAZ Miniature circuit breaker

## **Technical data ETIM 9.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01 [AAB905019]) Built-in depth mm 70.5

Built-in depth	mm	70.5
Release characteristic		D
Number of poles (total)		4
Number of protected poles		4
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 ${\rm V}$	kA	10
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 ${\rm V}$	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	kA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kA	15
Frequency	Hz	50 - 60
Power loss	W	10.6
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25
Explosion-proof		No