## **DATASHEET - FAZT-D40/1**



Miniature circuit breaker (MCB), 40A, 1p, D-Char, AC

**FAZT-D40/1** 

FAZT-D40/1 142484

**EL-Nummer** 1605522

Alternate Catalog

(Norway)

Part no. Catalog No.



Similar to illustration

**Delivery program** 

Zonro., program			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	40
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Product range			FAZ-T

# **Technical data**

#### **Electrical**

Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	$U_n$	V AC	240/415
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Rated insulation voltage	Ui	V	440
Rated frequency	f	Hz	50/60
Characteristic			B, C, D
Direction of incoming supply			as required
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 10000
Mechanical			

mm	45
mm	80
mm	17.5
	Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
	IP20
	Twin-purpose terminals
	Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
mm <sup>2</sup>	1 - 25
N/m	max. 2.4
mm	0.8 (exept N 0.5 SU)
	As required
	mm mm <sup>2</sup> N/m

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	3.2
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	75

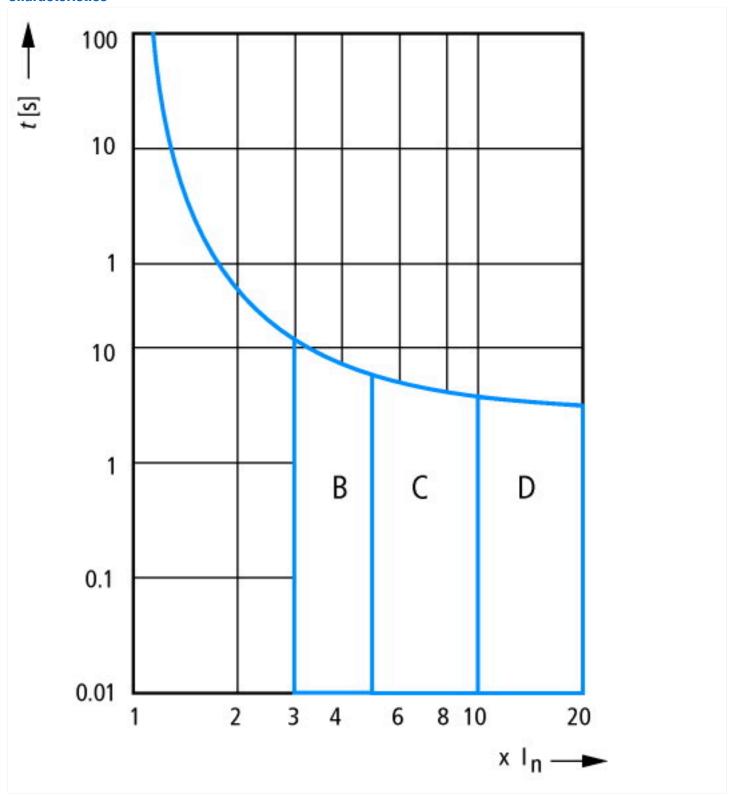
	1: 400 ki 050/ ki 6 ki 3:
TO/Thi auto in the state of the	linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
EC/EN 61439 design verification	
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 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.

# **Technical data ETIM 7.0**

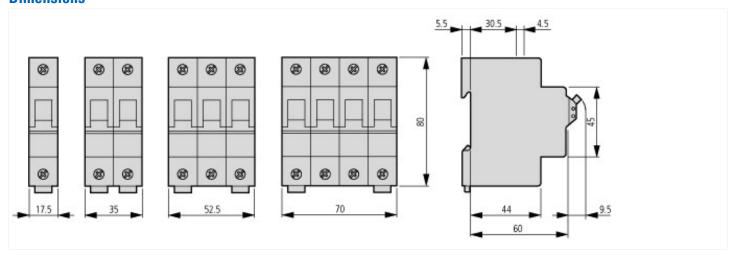
Circuit breake	ers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)	
	neering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB)	

Number of poles (total)  Number of protected poles  Rated current  Rated voltage Rated insulation voltage Ui Rated insulation voltage Uinp Rated insulation voltage Uinp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Number of protected poles  Rated current Rated current Rated voltage Rated insulation voltage Ui Rated insulation voltage Uim Rated short-circuit breaking capacity Icn EN 60998 at 230 V Rated short-circuit breaking capacity Icn EN 60998 at 400 V Rated short-circuit breaking capacity Icn EN 60997-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 2400 V Voltage type Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP)  I a  4 0  4 0  4 0  4 0  4 0  4 0  4 0  4	Release characteristic		D
Rated current         A         40           Rated voltage         V         240           Rated insulation voltage Ui         V         440           Rated impulse withstand voltage Uimp         kV         4           Rated short-circuit breaking capacity Icn EN 60988 at 230 V         kA         15           Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V         kA         15           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         15           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         15           Voltage type         AC         AC           Frequency         HZ         50 - 60           Current limiting class         3         3           Suitable for flush-mounted installation         No         No           Concurrently switching N-neutral         No         No           Over voltage category         3         3           Pollution degree         2         2           Additional equipment possible         Yes           Width in number of modular spacings         In         70.5           Built-in depth         mm         70.5	Number of poles (total)		1
Rated voltage Rated insulation voltage Uim Rated impulse withstand voltage Uimp Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60	Number of protected poles		1
Rated insulation voltage Ui Rated insulation voltage Uimp Rated inpulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Reted short-circuit breaking capacity Icu IEC 60947-2 at 400 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaking capacity Icu IEC 60947-2 at 230 V Reted short-circuit breaki	Rated current	Α	40
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Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP)  KA  15  AC  C  Current limiting class 3  3  AC  No  No  No  No  To.5  Prequency Yes  Prequency No  To.5  Prequenc	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RAC Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RAC Rated short-circuit breaking capacity Icu Ic	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
Voltage type  AC Frequency Hz 50 - 60  Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in depth Degree of protection (IP)  AC  AC  AC  AC  AC  Built-in depth AC  AC  AC  Built-in depth AC  AC  AC  Built-in depth AC  Buil	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Wighth in depth Degree of protection (IP)  Hz 50 - 60  No  No  Vex  No  No  No  Yes  1  IP20	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Current limiting class  Suitable for flush-mounted installation  Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  3  Yes  IP20	Voltage type		AC
Suitable for flush-mounted installation  Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  No  3  2  Yes  Yes  1  In 1  In 1  In 20	Frequency	Hz	50 - 60
Concurrently switching N-neutral  Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  mm  70.5  Degree of protection (IP)	Current limiting class		3
Over voltage category  Pollution degree  Additional equipment possible  Width in number of modular spacings  Built-in depth  Degree of protection (IP)  3  Yes  Yes  1  Imm 70.5  IP20	Suitable for flush-mounted installation		No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 1 Built-in depth mm 70.5 Degree of protection (IP) IP20	Concurrently switching N-neutral		No
Additional equipment possible Width in number of modular spacings Built-in depth mm 70.5 Degree of protection (IP) IP20	Over voltage category		3
Width in number of modular spacings 1  Built-in depth mm 70.5  Degree of protection (IP) IP20	Pollution degree		2
Built-in depth mm 70.5 Degree of protection (IP) IP20	Additional equipment possible		Yes
Degree of protection (IP)	Width in number of modular spacings		1
	Built-in depth	mm	70.5
Ambient temperature during operating °C -25 - 75	Degree of protection (IP)		IP20
	Ambient temperature during operating	°C	-25 - 75

## **Characteristics**



# **Dimensions**



# **Additional product information (links)**

Temperature dependency, derating

 $https://www.eaton.com/content/dam/eaton/technical documentation/technical-data-tables/Derating\ table\ FAZ\_T.pdf$