DATASHEET - FAZT-D25/4



Miniature circuit breaker (MCB), 25A, 4p, D-Char, AC



Part no.	FAZT-D25/4
Catalog No.	142506
Alternate Catalog	FAZT-D25/4
No.	
EL-Nummer	0001691486
(Norway)	

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			4 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	25
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ-T

Technical data

StandardsNoteFor Control <th>Electrical</th> <th></th> <th></th> <th></th>	Electrical			
Rate switching capacity acc. to IEC/EN 60947-2 Icu Add Scale Rated sinulation voltage U, V 40 Rated insulation voltage F K Scole Rated frequency F K Scole Characteristic F K Scole Direction of incoming supply F K Scole Electrical Operators F Scole Scole Mechanical Operators F Scole Scole Monting functionsion Operators F Scole Scole Monting width per pole F M Scole Scole Norting F M Scole Scole Scole Scole of Protection F M Scole Scole Original	Standards			IEC/EN 60947-2
Red insulation voltage Vi V 4 Red insulation voltage f Hz 5000 Red frequency f Hz 5000 Characteristic se cquired se cquired Direction fincoming supply se cquired se cquired Iffespan Operations ¥ 4000 Mechanical Operations ¥ 8000 Mechanical Operations ¥ 8000 Mechanical Operations ¥ 8000 Mounting width per pole mm 8100 8100 Nounting Munting 15 1500 Remains top and bottom mm 1620 1620 Terminal rotection mm 1500 1500 Terminal rotection <	Rated voltage according to IEC/EN 60947-2	U _n	V AC	240/415
Red frequeny Face Hz Book Characteristic B, C, D Direction fincoming supply sere required sere required Iffespan Sere required sere required Internation Sere required sere required Machanical Operator sere required Machanical Sere required sere required Machanical Sere required sere required Machanical Sere required sere required Sere required from dimension Sere required sere required Nounting width per pole Machanical Sere required from constraint Sere required from constr	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Characteristic B, C, D Direction of incoming supply a required Ifespan operations Electrical Operations Mechanical Operations Mechanical Operations Mechanical Operations Mechanical Operations Mechanical Operations Mechanical Monol Mounting width per pole Monol Nounting Monol Direction of incoming supply Monol Terminal stop and bottom Monol Terminal capacities Monol Terminal capacities Monol Terminal capacities Monol Terminal stop and bottom Monol Terminal capacities Monool Monool	Rated insulation voltage	Ui	V	440
Direction of incoming supply Image: Proceeding and processing and proc	Rated frequency	f	Hz	50/60
Initial and the second seco	Characteristic			B, C, D
Indectail Operations 4000 Mechanical Operations \$10000 Mechanical \$10000 Mechanical Mechanical Image: Standard front dimension \$10000 Enclosure height \$10000 Standard front dimension Funding width per pole \$10000 Standard front dimension Mounting width per pole \$10000 \$10000 Mounting \$100000 \$1000000000000000000000000000000000000	Direction of incoming supply			as required
Mechanical Operations 1000 Mechanical Image: Second S	lifespan			
Mechanical mm standard front dimension standard fr	Electrical	Operations		≧ 4000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting Mm Mick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Degree of Protection Mm Mick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Terminals top and bottom Mm Microprose terminals Terminal capacities Mm Signer and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Tightening torque of fixing screws Mm Microprose terminals Microprose fixing screws Microprose terminals Microprose terminals Microprose fixing screws Microprose terminals Microprose terminals Microprose terminals	Mechanical	Operations		≧ 10000
Enclosure height mm % Mounting width per pole mm % Mounting 1,5 Degree of Protection indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal stop and bottom Mmm % Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60715 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60716 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60716 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60716 Terminal protection Mmm indic attachment with 3 latch positions for top-hat rail IE/EN 60716	Mechanical			
Mounting width per pole mm 1.5 Mounting inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Degree of Protection inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Terminal stop and bottom inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Terminal protection inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Terminal capacities inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Tightening torque of fixing screws inick attachattachment with 3 latch positions for top-hattachment with 3 latch	Standard front dimension		mm	45
Mounting Mountin a start Mounting Mounting	Enclosure height		mm	80
Degree of Protection P20 Terminals top and bottom Twin-purpose terminals Terminal protection Twin-purpose terminals Terminal capacities Imma ² Tightening torque of fixing screws N/m Thickness of busbar material Mma	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal protection Twin-purpose terminals Terminal capacities Imm ² Terminal capacities Tightening torque of fixing screws Mm Mm Tightening torque of fixing screws Mm Mm Tightening torque of fixing screws Mm Mm	Mounting			Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities mm ² 1-25 Tightening torque of fixing screws N/m max.2.4 Tickness of busbar material mm 0.8 (exept N 0.5 SU)	Degree of Protection			IP20
Terminal capacities nm ² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminals top and bottom			Twin-purpose terminals
Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminal protection			Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminal capacities		mm ²	1 - 25
	Tightening torque of fixing screws		N/m	max. 2.4
Mounting position As required	Thickness of busbar material		mm	0.8 (exept N 0.5 SU)
	Mounting position			As required

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	25
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	10.3
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	75

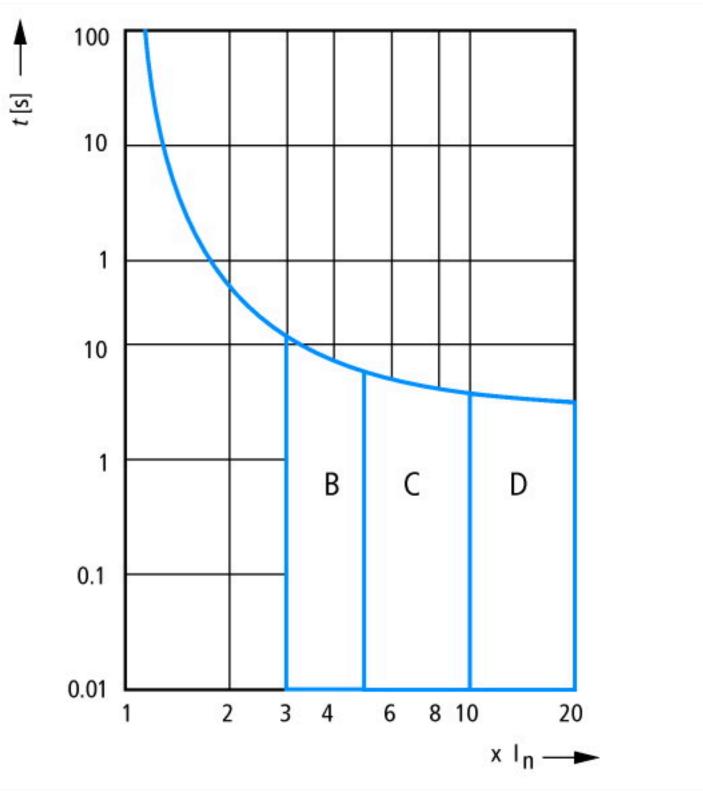
linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

C/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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

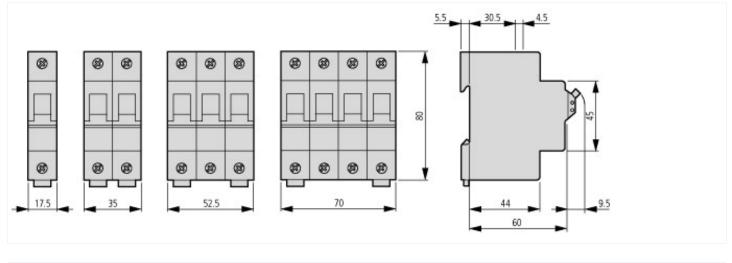
Technical data ETIM 7.0

Circuit 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@ss10.0.1-27-14-19-01 [AAB905014])		
Release characteristic		D
Number of poles (total)		4
Number of protected poles		4
Rated current	А	25
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	25
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25

Characteristics



Dimensions



Additional product information (links)

Temperature dependency, derating

https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ_T.pdf