

Over current switch, 40A, 4p, D-Char, AC

Powering Business Worldwide*

Part no. FAZ-D40/4 Article no. 279088 Catalog No. FAZ-D40/4

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	Α	40
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

Technical data

Electrical

Rated operational voltage	Lieuticai			
Incompany of the properties of the properti	Standards			
V DC	Rated operational voltage	U _e	V	
Rated switching capacity acc. to IEC/EN 60947-2 Operational switching capacity Max. back-up fuse Selectivity Class Lifespan Operations Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities Terminal capacities Terminal capacities Terminal capacities Mounting Terminal capacities Terminal capacities Mounting Mounti		U _e	V AC	230/400
Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Selectivity Class Selectivity Class Direction of incoming supply Wechanical Standard front dimension Enclosure height Terminal protection Mounting Degree of Protection Terminals top and bottom Terminal capacities Terminal capacities Thickness of busbar material A g L/gc B, C, D B,			V DC	48 (per pole)
Characteristic Max. back-up fuse Selectivity Class Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities Terminal capacities Terminal capacities Thickness of busbar material	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Max. back-up fuse A gL/g6 125 Selectivity Class 3 Lifespan Operations > 10000 Direction of incoming supply > 10000 Mechanical Standard front dimension mm 45 Enclosure height mm 80 Terminal protection fing width per pole Mounting width per pole Mounting width per pole Mounting Fried in the pole Mounting Terminals top and bottom Terminals top and bottom Terminals top and bottom Terminals top and bottom Terminal capacities mm² 1x.25 mm² 2x.10 Thickness of busbar material mm 0.8 2	Operational switching capacity		kA	7.5
Selectivity Class Lifespan Operations > 10000 as required Nechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities mm² mm² mm² mm² 1 × 25 mm² mm² 1 × 25 mm² mm² mm² mm² 1 × 25 mm² mm² mm² mm² mm² 1 × 25 mm² mm² mm² mm² mm² 1 × 25 mm² mm²	Characteristic			B, C, D
Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities mm2 mm3 mm4 mm6 mm6 mm7 mm7 mm7 mm7 mm7	Max. back-up fuse		A gL/gG	125
Direction of incoming supply Mechanical Standard front dimension mm 45 Enclosure height mm 80 Terminal protection finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal capacities mm² 1x 25 mm² 2x 10 Thickness of busbar material services mm 0 8 2	Selectivity Class			3
Mechanical Standard front dimension mm 45 Enclosure height mm 80 Terminal protection Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting IEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Lifespan	Operations		>10000
Standard front dimension mm 45 Enclosure height mm 80 Terminal protection Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting Degree of Protection IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm² 1×25 mm² 2×10 Thickness of busbar material mm 0.8 2	Direction of incoming supply			as required
Enclosure height mm 80 Terminal protection mm 17.5 Mounting width per pole mm 17.5 Mounting Degree of Protection Terminals top and bottom Terminal capacities mm² 1×25 mm² 2×10 Thickness of busbar material mm 0.8 2	Mechanical			
Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom IP20, IP40 (when fitted) Terminal capacities mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Standard front dimension		mm	45
Mounting width per pole mm 17.5 Mounting Degree of Protection Irwin-purpose terminals Terminal capacities mm² 1x25 mm² 1x25 mm² 2x10 Thickness of busbar material 1x26	Enclosure height		mm	80
Mounting Degree of Protection Ireminals top and bottom Terminal capacities Imm² Include the second s	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm² mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal capacities mm² 1 x 25 mm² 2 x 10 Thickness of busbar material Terminals top and bottom Twin-purpose terminals mm² 0.8 2	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Degree of Protection			IP20, IP40 (when fitted)
$\frac{mm^2}{mm^2} = 1 \times 25$ $\frac{mm^2}{mm} = 2 \times 10$ Thickness of busbar material $mm = 0.8 \dots 2$	Terminals top and bottom			Twin-purpose terminals
mm ² 2 x 10 Thickness of busbar material mm 0.8 2	Terminal capacities		mm^2	
Thickness of busbar material mm 0.8 2			mm^2	1 x 25
			mm^2	2 x 10
Mounting position As required	Thickness of busbar material		mm	0.8 2
	Mounting position			As required

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	12.8
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

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

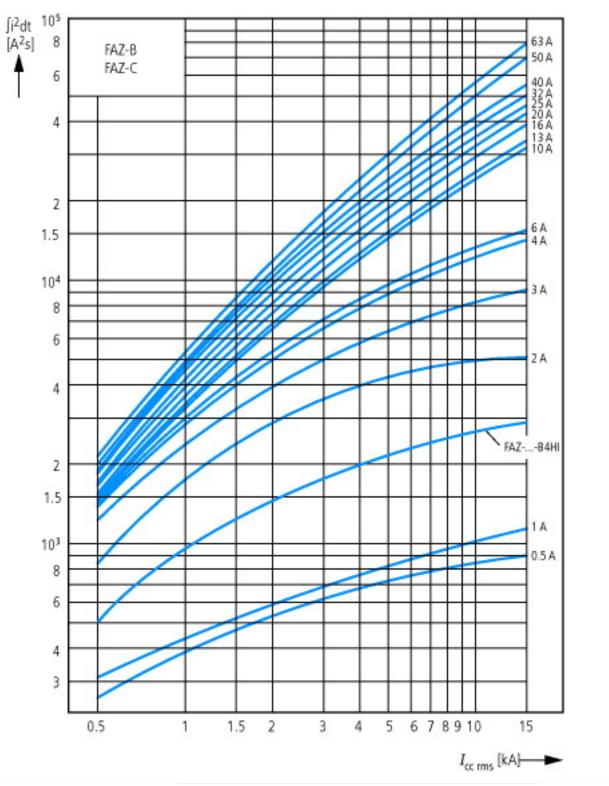
Technical data ETIM 6.0

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

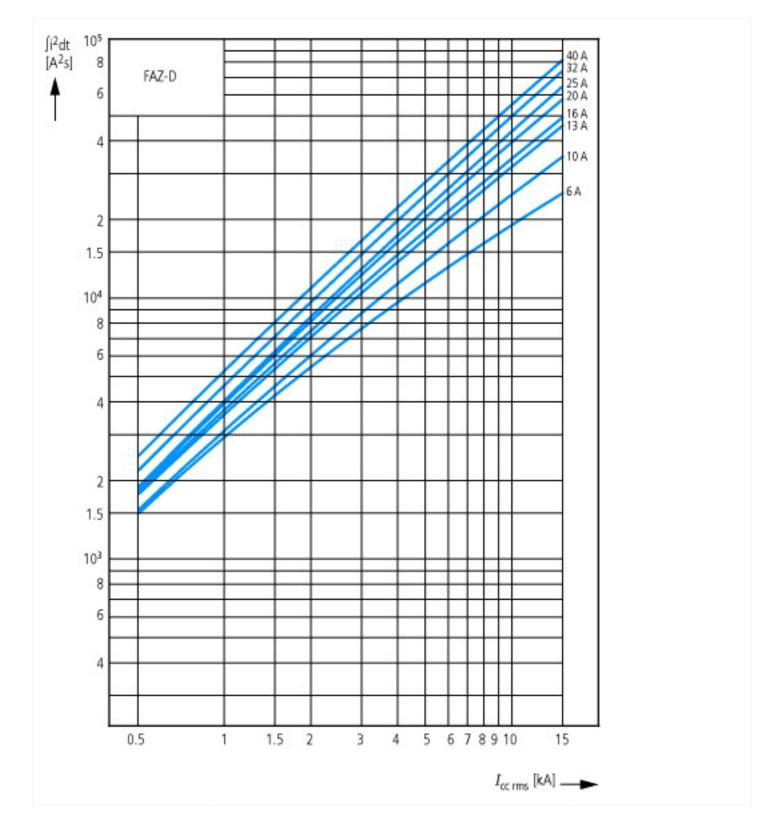
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

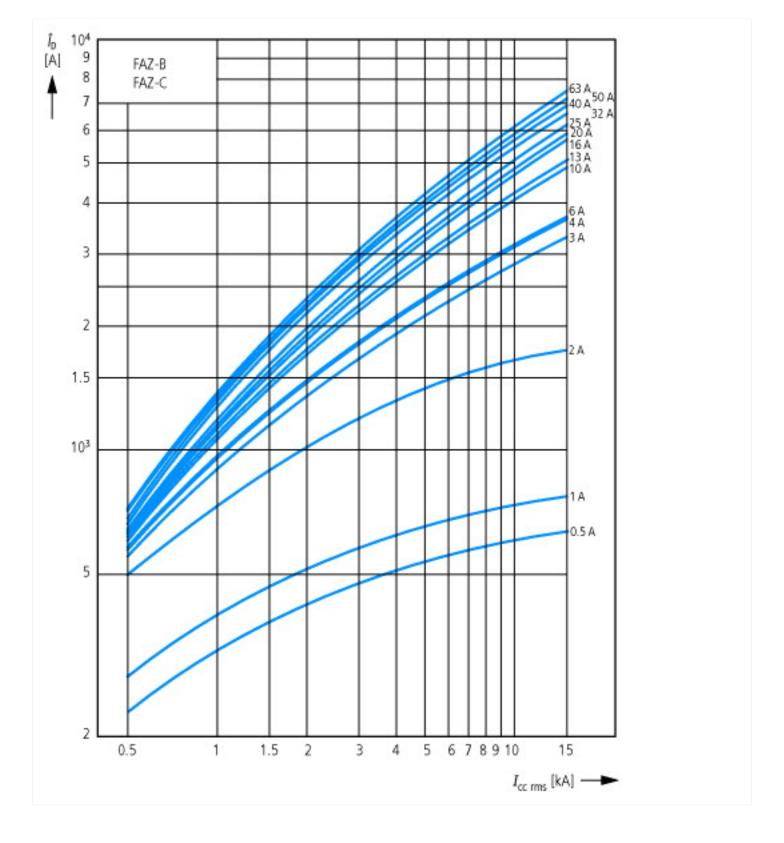
P # (2000)		
Release characteristic		D
Number of poles (total)		4
Number of protected poles		4
Nominal rated current	Α	40
Nominal rated voltage	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Rated short-circuit 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
Voltage type		AC
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		Yes
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		4
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

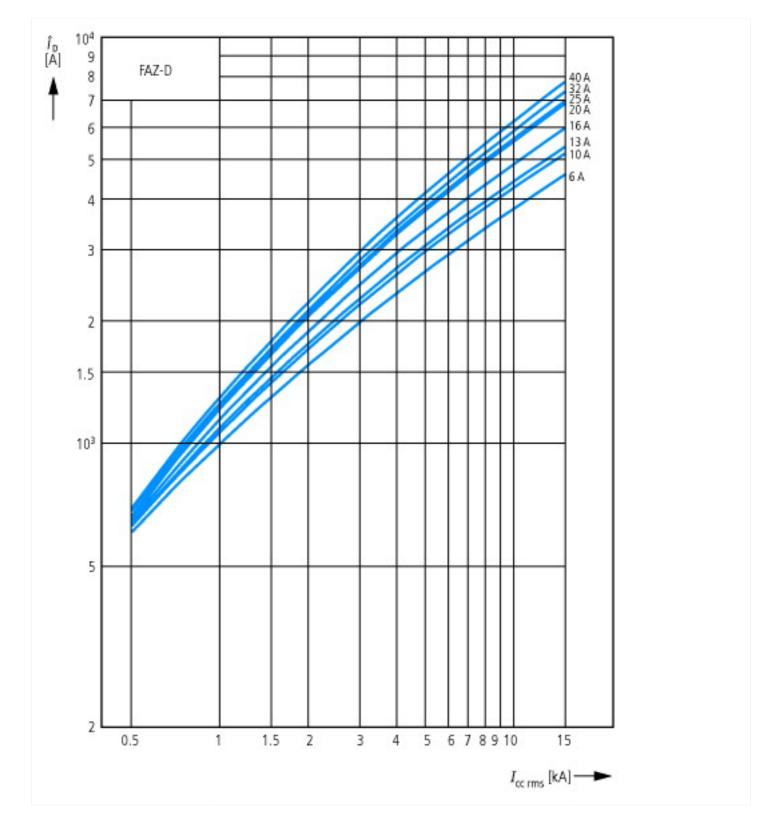
Characteristics

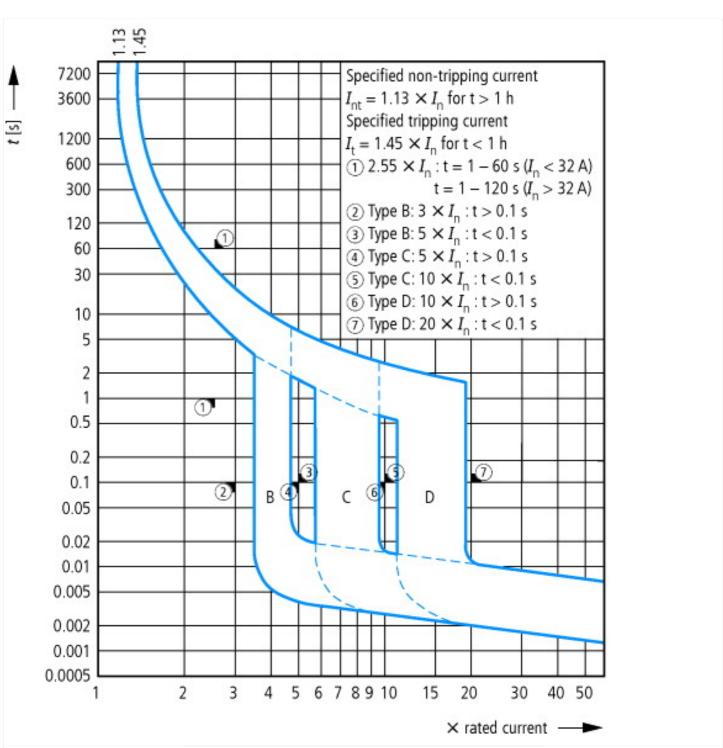


Let-through energy I²t According to IEC/EN 60898

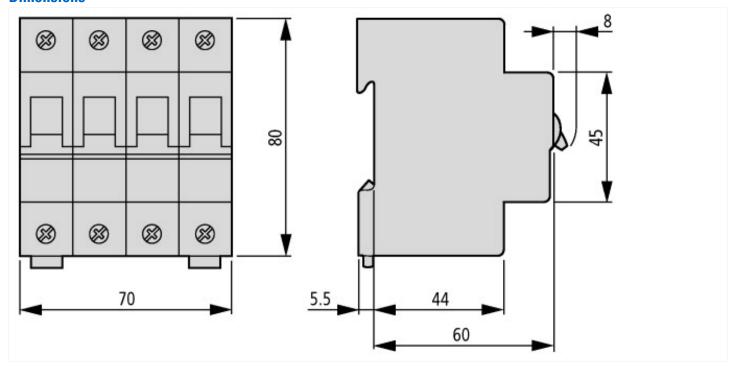








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf