DATASHEET - FAZ-C40/2



Miniature circuit breaker (MCB), 40A, 2p, C-Char, AC

Powering Business Worldwide*

Part no. FAZ-C40/2 Catalog No. 278764 Alternate Catalog FAZ-C40/2

No.

EL-Nummer 0001695172 (Norway)

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	40
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ

Technical data

And adards Leck EVEN 608947-2 (EVEN 40898) EVEN 40898 lated operational voltage Us V ACC 40415 Lated voltage according to UL Us V ACC 409 (per pole) Lated voltage according to UL Los V ACC 400 (Per pole) Area king capacity acc. to IE/CFN 60947-2 Los KAC 15 (LUL777) Lated switching capacity according to IE/CFN 60947-2 (max operational voltage) Los VAC 40 (ACC) Lated savice short-circuit breaking capacity according to IE/CFN 609947-2 (max operational voltage) Los VAC 40 (ACC) Lated service short-circuit breaking capacity according to IE/CFN 609947-2 (max operational voltage) Los VAC 40 (ACC) Lated service short-circuit breaking capacity according to IE/CFN 609947-2 (max operational voltage) Los ACC 40 (ACC) Lated service short-circuit breaking capacity according to IE/CFN 609947-2 (max operational voltage) Los ACC ACC Lated service short-circuit breaking capacity according to IE/CFN 609947-1 (max operational voltage) Los ACC	Technical data			
	Electrical			IFC/FNI C0047-2
V	Standards			
V DC 60 [per pole]	Rated operational voltage	U _e	V	
act of voltage according to UL Un V AC 480V/277 Lated switching capacity acc. to IEC/EN 60947-2 I _L kA 15 Lated switching capacity according to IEC/EN 60947-2 VAC 440 Lated switching capacity according to IEC/EN 60947-2 (max operational voltage) I _L VAC 440 Lated switching capacity according to IEC/EN 60947-2 (max operational voltage) I _L VAC 450 Lated switching capacity according to IEC/EN 60947-2 (max operational voltage) I _L VAC 415 Lated switching capacity according to IEC/EN 60988-1 I _L VAC 45 Lated switching capacity according to IEC/EN 60989-1 I _L X-1 X-2 Lated switching capacity according to IEC/EN 60989-1 I _L X-1 X-5 Lated switching capacity according to IEC/EN 60989-1 I _L X-2 X-5 Ass. back-up fuse A gL/G X-5 X-5 Ass. back-up fuse X-2 X-5 X-5 Ass. back-up fuse X-2 X-2 X-2 Ass. back-up fuse X-2 X-2 X-2		U _e	V AC	240/415
sated switching capacity acc. to IEC/EN 60947-2 leaking capacity according to UL Abax operational voltage according to IEC/EN 60947-2 leaked switching capacity according to IEC/EN 60947-2 leaked voltage according to IEC/EN 6098-1 leaked svoltage according to IEC/EN 6098-1 leaked voltage according to IEC/EN 6098-1			V DC	60 (per pole)
As perational voltage according to UL As operational voltage according to IEC/EN 60947-2 (max operational voltage) lated switching capacity according to IEC/EN 60947-2 (max operational voltage) lated switching capacity according to IEC/EN 60947-2 (max operational voltage) lated switching capacity according to IEC/EN 60984-1 lated switching capacity according to IEC/EN 60984-1 lated switching capacity according to IEC/EN 60989-1 lated switching capacity according to IEC/EN 60989-1 lated switching capacity according to IEC/EN 60989-1 lated switching capacity according to IEC/EN 60898-1 lated switching capacity	Rated voltage according to UL	Un	V AC	480Y/277
Also operational voltage according to IEC/EN 60947-2 (max operational voltage) lated switching capacity according to IEC/EN 60947-2 (max operational voltage) lated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) lated service short-circuit breaking capacity according to IEC/EN 60989-1	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
lated switching capacity according to IEC/EN 60947-2 (max operational voltage) lated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) lated voltage according to IEC/EN 60988-1 lated switching capacity according to IEC/EN 6098-1 lated switching capacity	Breaking capacity according to UL		kA	5 (UL1077)
lated service short-circuit breaking capacity according to IEC/EN 60947-2 (max perational voltage) lated voltage according to IEC/EN 60898-1 lated switching capacity according to IEC/EN 6089-1 lated switching capacity according to IEC/EN 608-1 lated switching capacity accord	Max operational voltage according to IEC/EN 60947-2		V AC	440
perational voltage) stated voltage according to IEC/EN 60898-1 stated switching capacity according to IEC/EN 60898-1 stated switching capacity according to IEC/EN 60898-1 stated service short-circuit breaking capacity according to IEC/EN 60898-1 stated service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 60898-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit breaking capacity according to IEC/EN 6089-1 started service short-circuit brea	Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	10
lated switching capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60898-1 lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail leader front dimension lated service short-circuit breaking capacity according to IEC/EN 60915 top-hat rail lea	Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
tated service short-circuit breaking capacity according to IEC/EN 60898-1 lgerational switching capacity theracetristic label activity Class label activity	Rated voltage according to IEC/EN 60898-1	Un	V AC	415
Page at ional switching capacity Page at ional	Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
theracteristic B, C, D, K, S, Z Ag L/g G 125 Ag L/g G 125 Agetevity Class desertivity Clas desertivi	Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
As back-up fuse A gL/gG 125 Alectivity Class fespan Lifespan Operations Operations Operations Included front dimension Actional dimension A	Operational switching capacity		kA	7.5
Selectivity Class fespan Lifespan Operations Sirection of incoming supply Acchanical Standard front dimension Inclosure height Mounting width per pole Mounting Degree of Protection Ferminals top and bottom Ferminal protection Ferminal protection Ferminal capacities Table 1 x 25 Table 2 x 3 To0000 Table 2 x 10000 Table 3 x 10000 Table 4 x 10000 Table 5 x 10000 Table 6 x 10000 Table 7 x 10000	Characteristic			B, C, D, K, S, Z
Telepan Operations Policetion of incoming supply as required protection as required protection as required protection and protection are reminal capacities as a supplementation as required protection as required protection and protection are reminal capacities as a supplementation as required protection as required protection and protection are reminal capacities are reminal capacities as a supplementation as required protection as required protect	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 10000 Acchanical Actandard front dimension mm 45 Actounting width per pole mm 17.5 Actounting of Protection for Protection for Protection for Mounting width per pole for minal stop and bottom for minal capacities mm² txxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Selectivity Class			3
Alechanical Alechanical Alechanical Alechanical Alexandard front dimension Alechanical Alexandard front dimension Alexandard fron	lifespan			
Mechanical Standard front dimension Standard f	Lifespan	Operations		> 10000
Standard front dimension mm 80 Mounting width per pole mm 17.5 Mounting Width per pole lEC/EN 60715 top-hat rail lecy legree of Protection leerminals top and bottom Twin-purpose terminals top and bottom leerminal protection leerminal protection leerminal protection leerminal capacities mm² lx 25	Direction of incoming supply			as required
mm 80 Mounting width per pole mm 17.5 Mounting Protection IP20, IP40 (when fitted) Terminals top and bottom IP00 Trwin-purpose terminals ferminal capacities mm² mm 2 Tx 25	Mechanical			
Mounting width per pole mm 17.5 Mounting IEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Twin-purpose terminals Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities mm² 1x 25	Standard front dimension		mm	45
Mounting IEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Twin-purpose terminals Finger and back-of-hand proof to BGV A2 Terminal capacities mm² Txin-purpose terminal proof to BGV A2 Txin-purpose terminal proof to BGV A2 Txin-purpose terminals	Enclosure height		mm	
Pegree of Protection IP20, IP40 (when fitted) Twin-purpose terminals Finger and back-of-hand proof to BGV A2 Twin-purpose terminal protection Twin-purpose terminals Finger and back-of-hand proof to BGV A2 Twin-purpose terminals	Mounting width per pole		mm	
Twin-purpose terminals ferminal protection Finger and back-of-hand proof to BGV A2 ferminal capacities mm² 1 x 25	Mounting			·
Finger and back-of-hand proof to BGV A2 erminal capacities mm ² 1 x 25	Degree of Protection			
reminal capacities mm ² 1 x 25	Terminals top and bottom			
$\frac{1 \times 25}{\text{mm}^2}$	Terminal protection			Finger and back-of-hand proof to BGV A2
	Terminal capacities		mm ²	
mm ² 2 x 10			mm^2	1 x 25
			mm^2	2 x 10

Thickness of busbar material	mm	0.8 2
Mounting position		As required

Design verification as per IEC/EN 61439

pesign vermoanon as per illo/liv 01433			
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	7.5
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
IEC/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 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)

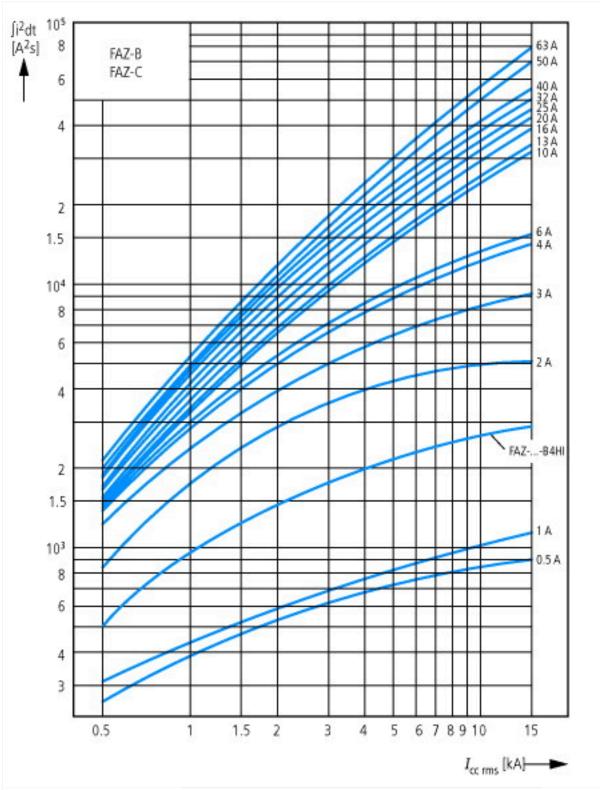
(ecl@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic		С	
Number of poles (total)		2	
Number of protected poles		2	
Rated current	Α	40	
Rated voltage	V	400	
Rated insulation voltage Ui	V	440	
Rated impulse withstand voltage Uimp	kV	4	
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	. 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
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		2
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
Connectable conductor cross section solid-core	mm²	1 - 25

Approvals

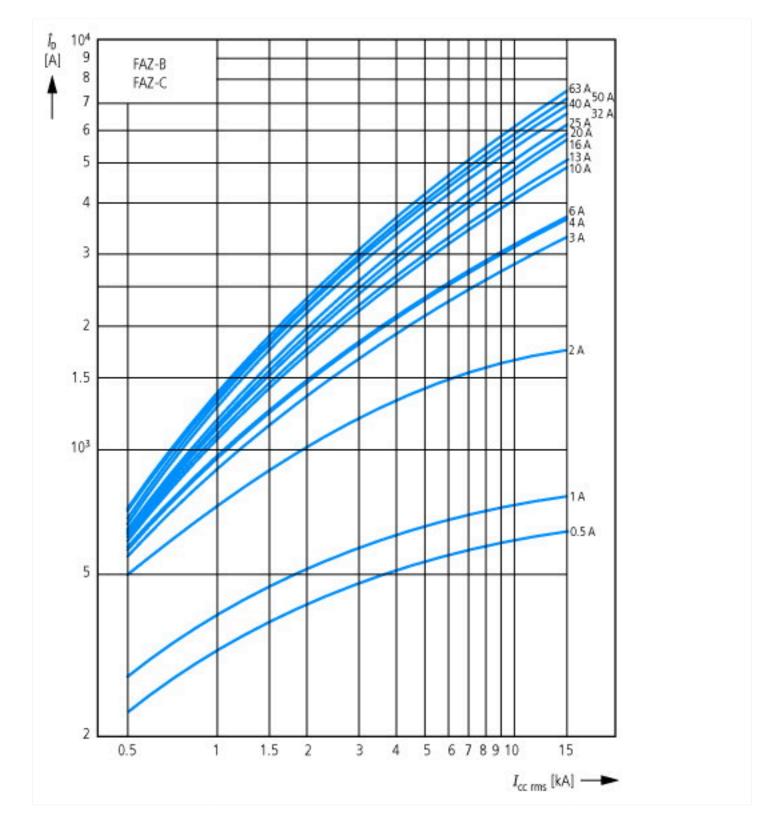
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Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC; 96 VDC
Degree of Protection	IEC: IP20; UL/CSA Type: -

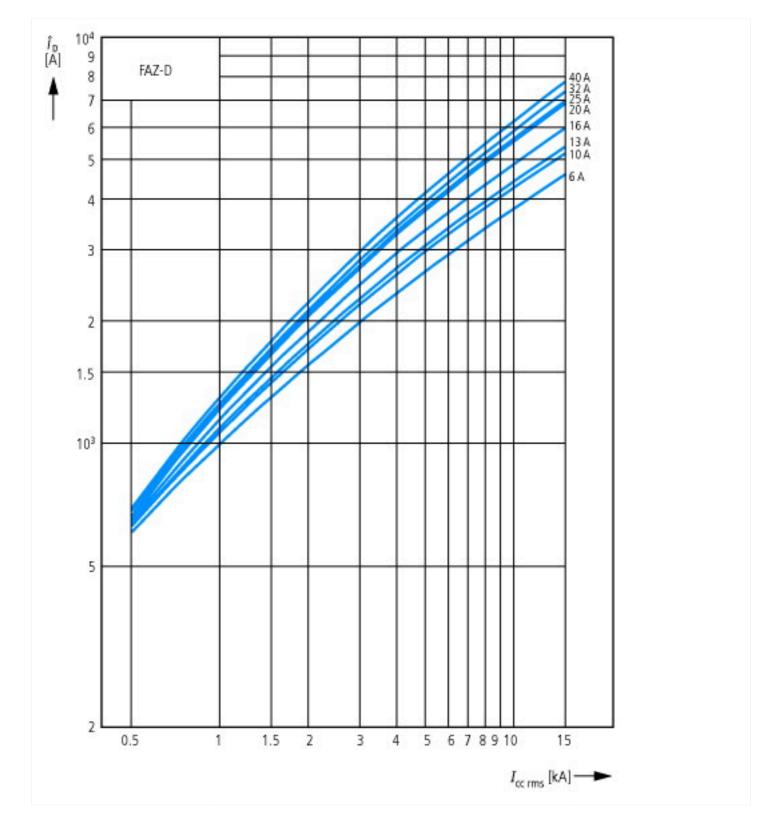
Characteristics

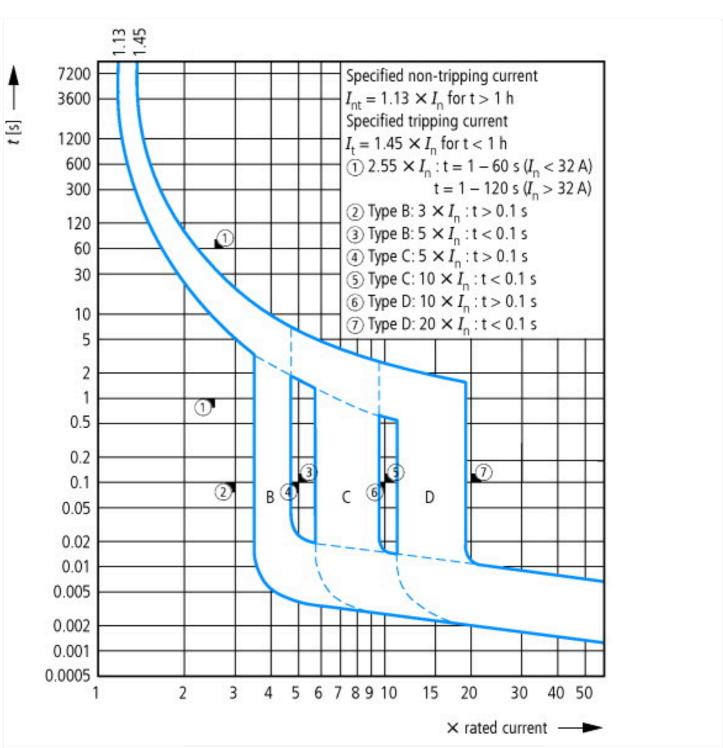


Let-through energy I²t According to IEC/EN 60898

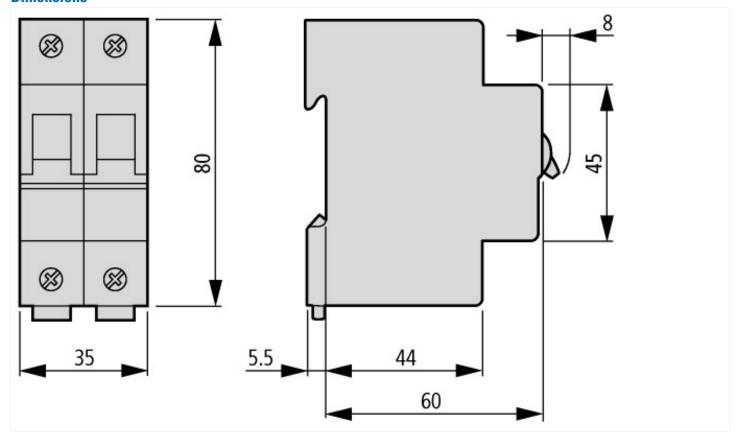








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

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