



Over current switch, 50A, 1p, Z-Char, AC

Part no. FAZ-Z50/1
Article no. 278631
Catalog No. FAZ-Z50/1

Similar to illustration

Delivery programme

Basic function			Miniature circuit breakers
Number of poles			1 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	I_n	A	50
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

Technical data

Electrical

Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	U_e	V	
	U_e	V AC	230/400
		V DC	48 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Operational switching capacity		kA	7.5
Characteristic			B, C, D
Max. back-up fuse		A gL/gG	125
Selectivity Class			3
Lifespan	Operations		> 10000
Direction of incoming supply			as required

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		mm ²	
		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

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	50
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	4.8
Static heat dissipation, non-current-dependent	P_{vs}	W	0

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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

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) (ec1@ss8.1-27-14-19-01 [AAB905011])			
Release characteristic			Z
Number of poles (total)			1
Number of protected poles			1
Nominal rated current		A	50
Nominal rated voltage		V	230
Rated short-circuit breaking capacity I _{cn} EN 60898 at 230 V		kA	0
Rated short-circuit breaking capacity I _{cn} EN 60898 at 400 V		kA	0
Rated short-circuit breaking capacity I _{cu} IEC 60947-2 at 230 V		kA	10
Rated short-circuit breaking capacity I _{cu} IEC 60947-2 at 400 V		kA	10
Voltage type			AC
Current limiting class			3
Frequency		Hz	50 - 60
Concurrently switching N-neutral			No
Suitable for flush-mounted installation			No
Over voltage category			3
Pollution degree			2
Width in number of modular spacings			1
Built-in depth		mm	70.5
Additional equipment possible			Yes
Degree of protection (IP)			IP20

Approvals

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			277 VAC; 48 VDC
Degree of Protection			IEC: IP20; UL/CSA Type: -

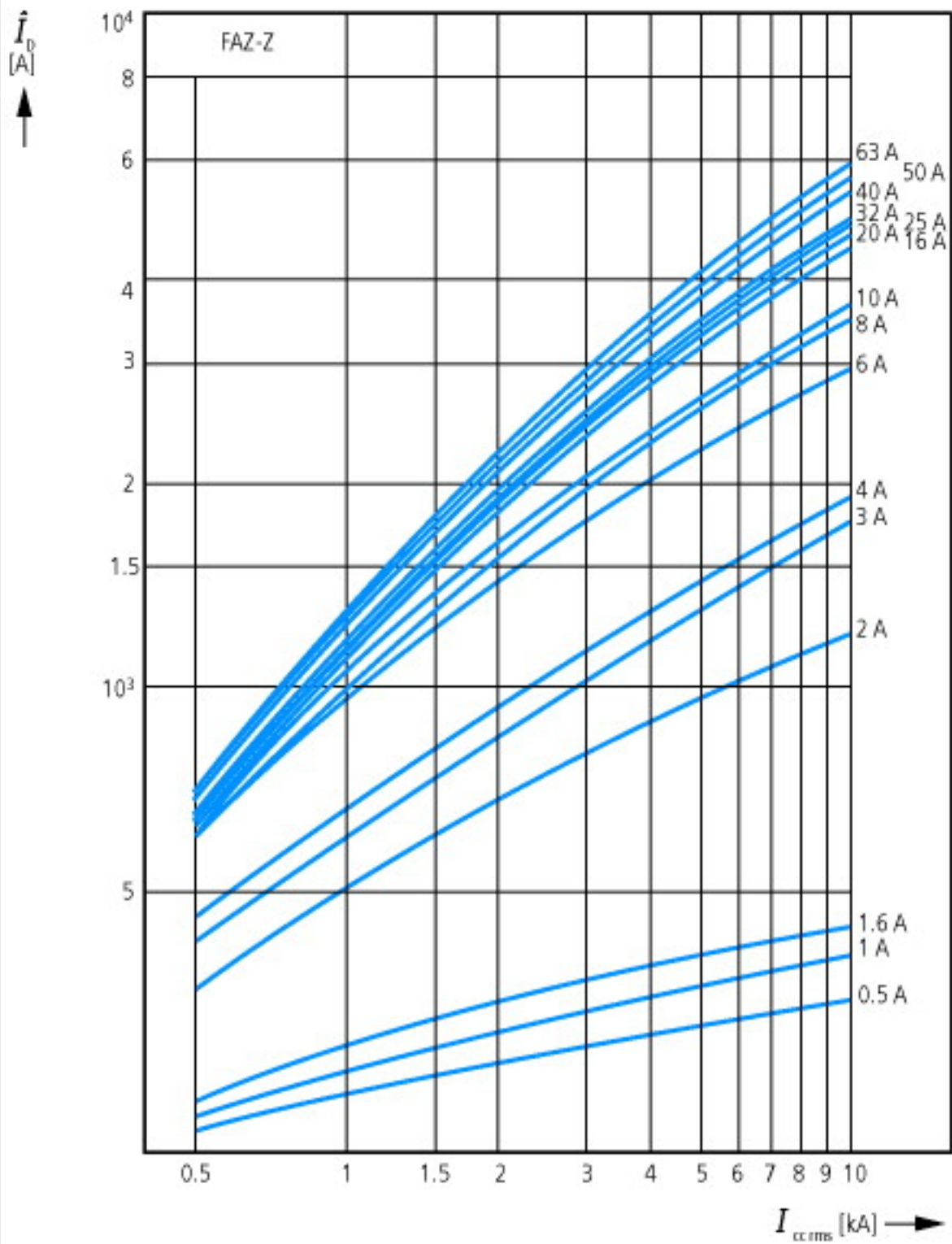
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Characteristics

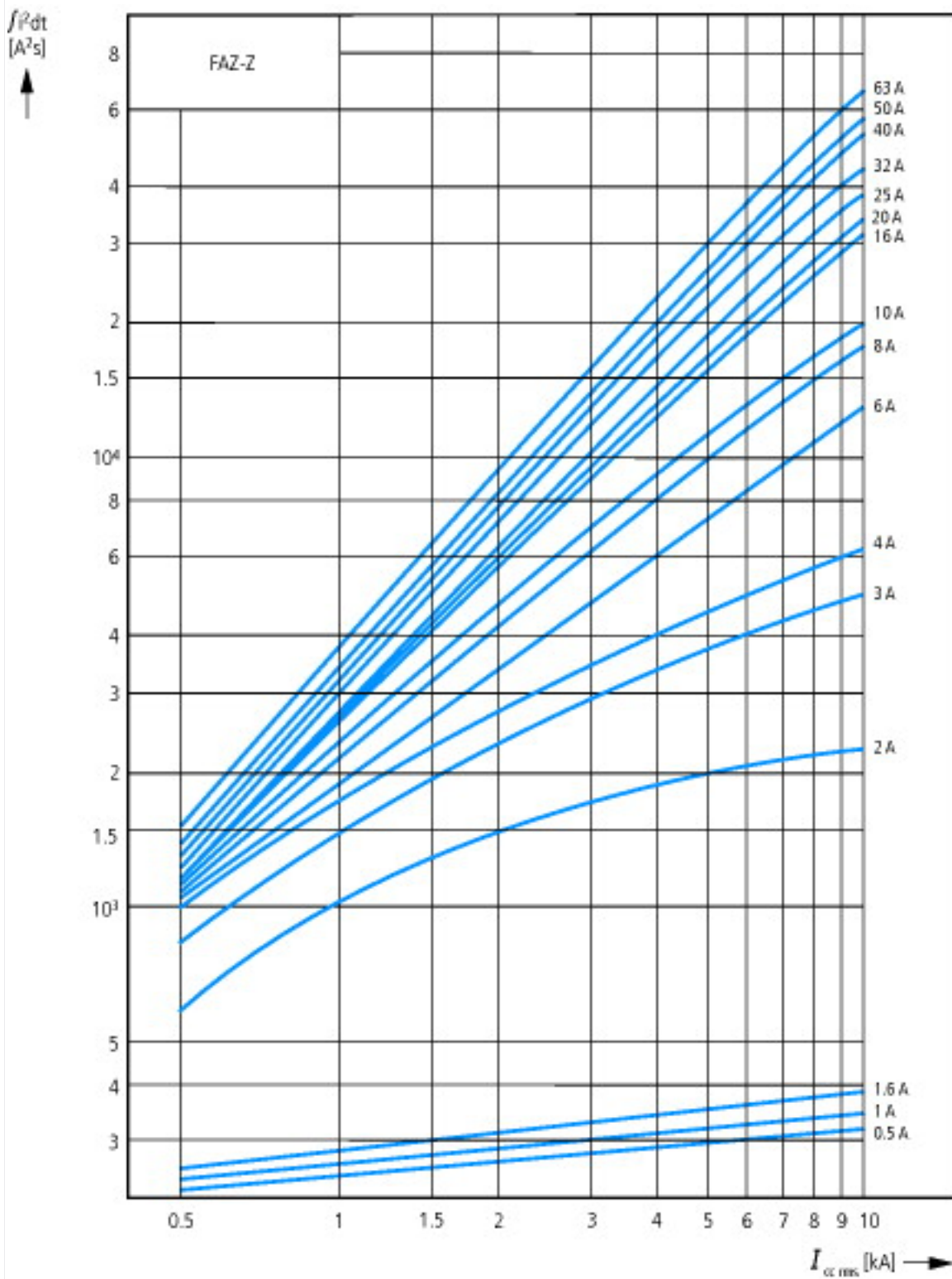


Let-through energy i^2t
According to IEC/EN 60898

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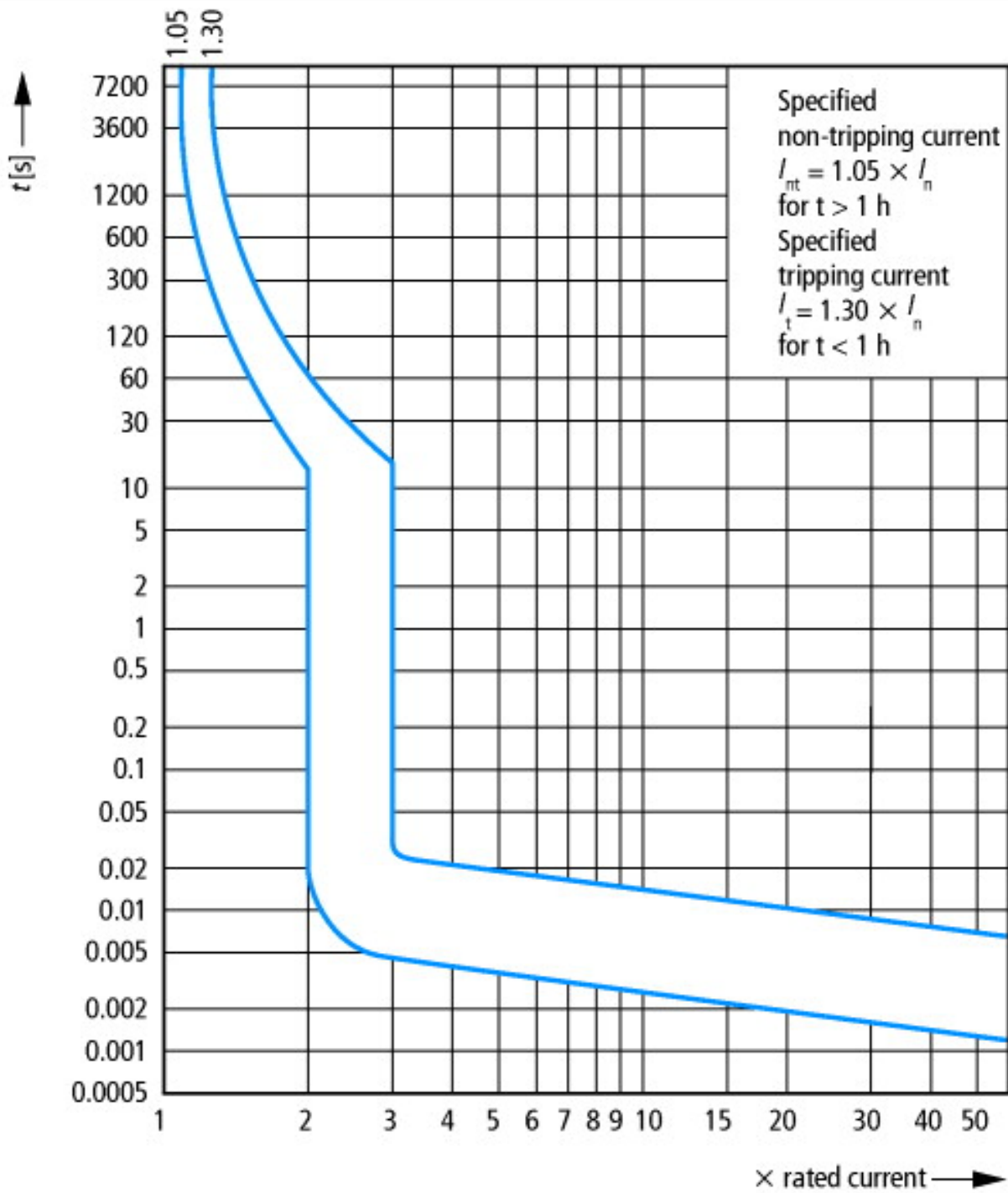


Let-through current i_p
According to IEC/EN 60898

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Tripping characteristic at 30 °C:
 Z according to IEC/EN 60947

Dimensions



Additional product information (links)

AWA1220-1755 Circuit-breaker

AWA1220-1755 Circuit-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf