



**Miniature circuit breaker (MCB)**

**Part no.** EMCS1100  
**Catalog No.** EMCS1100

**Delivery program**

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	$I_n$	A	100
Rated switching capacity acc. to IEC/EN 60947-2	$I_{cu}$	kA	20
Product range			EM

**Technical data**

**Electrical**

Rated switching capacity acc. to IEC/EN 60947-2	$I_{cu}$	kA	20
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**Design verification as per IEC/EN 61439**

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	100
Equipment heat dissipation, current-dependent	$P_{vid}$	W	9.13
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
			linear, per +1 °C, results in a 0.35% reduction of current carrying capacity

**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) (ec1@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic			C
Number of poles (total)			1
Number of protected poles			1
Rated current		A	100
Rated voltage		V	400
Rated insulation voltage $U_i$		V	440
Rated impulse withstand voltage $U_{imp}$		kV	4
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	20
Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V		kA	20
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		1.5
Built-in depth	mm	75
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm <sup>2</sup>	2.5 - 50
Connectable conductor cross section solid-core	mm <sup>2</sup>	2.5 - 50