



Miniature circuit breaker (MCB), 12 A, 3p+N, characteristic: D

Part no. **mMC6-D12/3N**  
 Catalog No. **170035**

### Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole+N
Tripping characteristic			D
Application			Switchgear for residential and commercial applications
Rated current	$I_n$	A	12
Rated switching capacity according to IEC/EN 60898-1	$I_{cn}$	kA	6
Product range			mMC6

### Technical data

#### Electrical

Rated switching capacity according to IEC/EN 60898-1	$I_{cn}$	kA	6
Rated insulation voltage	$U_i$	V	440
Rated impulse withstand voltage	$U_{imp}$	kV	4
lifespan	Electrical	Operations	$\geq 10000$
	Mechanical	Operations	$\geq 20000$

#### References

Auxiliary switch for subsequent installation			ZP-IHK 286052
Tripping signal contact for subsequent installation			ZP-NHK 248437
Remote control and automatic switching device			Z-FW/LP 248296
Switching interlock			Z-IS/SPE-1TE 274418

#### Mechanical

Standard front dimension		mm	45
Device height		mm	80
Mounting			Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Degree of Protection			IP20
Terminals top and bottom			Open mouthed/lift terminals
Terminal protection			BGV A3, ÖVE-EN 6
Thickness of busbar material		mm	0.8 - 2

### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	12
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	5.4
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	75
linear, per +1 °C, results in a 0.5% 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) (ecl@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic			D
Number of poles (total)			4

Number of protected poles		3
Rated current	A	12
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	6
Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V	kA	6
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
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	mm <sup>2</sup>	1 - 25
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25