



Miniature circuit breaker (MCB), 50A, 1pole+N, type D characteristic

Part no. **PLZM-D50/1N-MW**  
 Catalog No. **113160**

Similar to illustration

### 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
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) (ec@ss10.0.1-27-14-19-01 [AAB905014])				
Release characteristic				D
Number of poles (total)				2
Number of protected poles				1
Rated current		A		50
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		10
Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V		kA		10
Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 230 V		kA		0
Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V		kA		0
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				1.5
Built-in depth		mm		70.5
Degree of protection (IP)				IP20
Ambient temperature during operating		°C		-25 - 55
Connectable conductor cross section multi-wired		mm <sup>2</sup>		1 - 25
Connectable conductor cross section solid-core		mm <sup>2</sup>		1 - 25