



## Miniature circuit breaker (MCB), 20A, 1p, type D characteristic

Part no. **CLS6-D20-DP**  
 Catalog No. **270365**

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	20	
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0	
Equipment heat dissipation, current-dependent	$P_{vid}$	W	2	
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 0.5% reduction of current carrying capacity
IEC/EN 61439 design verification				
10.2 Strength of materials and parts				
10.2.2 Corrosion resistance				
10.2.3.1 Verification of thermal stability of enclosures				
10.2.3.2 Verification of resistance of insulating materials to normal heat				
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects				
10.2.4 Resistance to ultra-violet (UV) radiation				
10.2.5 Lifting				
10.2.6 Mechanical impact				
10.2.7 Inscriptions				
10.3 Degree of protection of ASSEMBLIES				
10.4 Clearances and creepage distances				
10.5 Protection against electric shock				
10.6 Incorporation of switching devices and components				
10.7 Internal electrical circuits and connections				
10.8 Connections for external conductors				
10.9 Insulation properties				
10.9.2 Power-frequency electric strength				
10.9.3 Impulse withstand voltage				
10.9.4 Testing of enclosures made of insulating material				
10.10 Temperature rise				
10.11 Short-circuit rating				
10.12 Electromagnetic compatibility				
10.13 Mechanical function				

### 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				D
Number of poles (total)				1
Number of protected poles				1

Nominal rated current	A	20
Nominal rated voltage	V	230
Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 230 V	kA	6
Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V	kA	6
Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V	kA	0
Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 400 V	kA	0
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