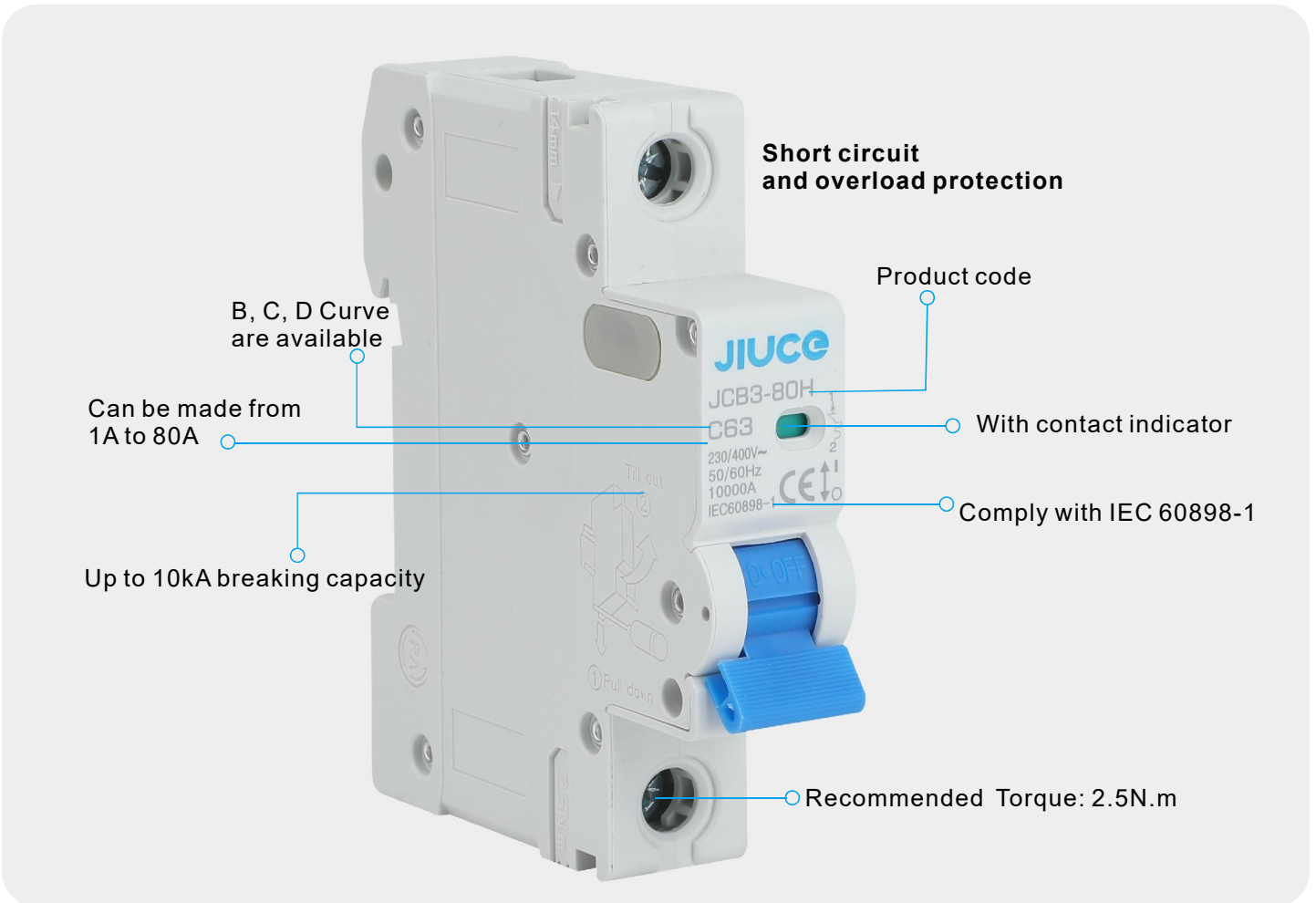


## ● JCB3-80H Miniature Circuit Breaker (MCB) 10kA



## Function

- Protection of circuits against short-circuit currents;
- Protection of circuits against overload currents;
- Switch;
- Isolation

## Application

JCB3-80H circuit-breakers are used in domestic installation, as well as in commercial and industry electrical distribution systems.

## Selection

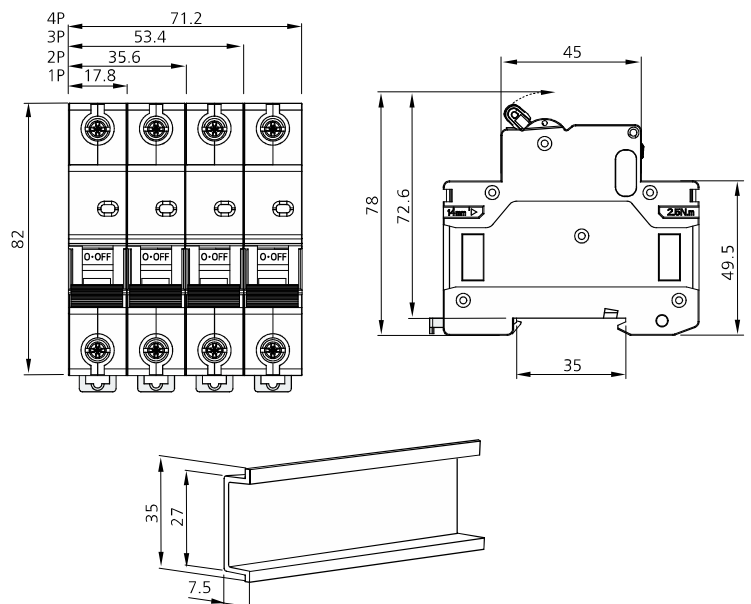
Technical data of the network at the point considered: the earthing systems (TNS, TNC), short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.

### Tripping curves:

B curve (3-5I<sub>n</sub>)---protection for people and big length cables in TN and IT systems.

C curve (5-10I<sub>n</sub>)---protection for resistive and inductive loads with low inrush current

D curve (10-14I<sub>n</sub>)---protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps)



Product code	JCB3-80H			
Picture				
Pole	1 Pole	2 Pole	3 Pole	4 Pole
Electrical features	Standard		IEC/EN 60898-1	
	Rated current $I_n$ (A)		1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80	
	Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P	
	Rated voltage $U_e$ (V)		230/400~ 240/415	
	Insulation voltage $U_i$ (V)		500	
	Rated frequency		50/60Hz	
	Rated breaking capacity		10 kA	
	Energy limiting class		3	
	Rated impulse withstand voltage (1.2/50) $U_{imp}$ (V)		4000	
	Dielectric test voltage at ind. Freq. for 1 min (kV)		2	
	Pollution degree		2	
	Power loss per pole		Rated current (A) 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80	
	Thermo-magnetic release characteristic		B, C, D	
Mechanical features	Electrical life		4,000	
	Mechanical life		20,000	
	Contact position indicator		Yes	
	Protection degree		IP 20	
	Reference temperature for setting of thermal element (°C)		30	
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$ )		-5...+40 °C	
	Storage temperature (°C)		-25. . . +70 °C	
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar	
	Terminal size top/bottom for cable		25mm <sup>2</sup> / 18-4 AWG	
	Terminal size top/bottom for busbar		10mm <sup>2</sup> / 18-8 AWG	
	Tightening torque		2.5 N*m / 22 In-lbs.	
	Mounting		On DIN rail EN 60715 (35mm)	
Combination with accessories	Connection		From top and bottom	
	Auxiliary contact		Yes	
	Shunt release		Yes	
	Under voltage release		Yes	
Alarm contact		Yes		

