



100A MCB

Description & Features

WKB range 100A high breaking capacity circuit breaker is used for protecting the circuit which overload and short circuit may take place. It can be used in lighting and electric motor distribution system. Meantime it is applicable to unfrequently switch the electric apparatus and light circuit under the normal conditions.

Selection

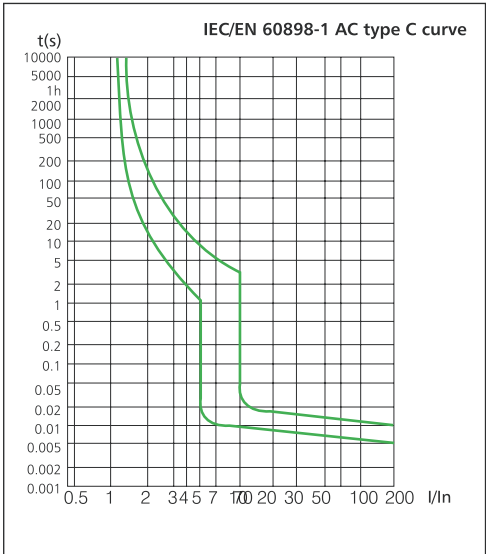
Technical data of the network at the point considered: the earthing systems (TNS, TNC), short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device, Network normal voltage.



Part No.	description	Box Qty
WKB280B	2 Pole 80A B Curve MCB 10KA	60
WKB2100C	2 Pole 100A C Curve MCB 10KA	60
WKB5100C-ST	5 Pole 100A C Curve MCB 10KA c/w 230V Shunt Trip	20
WKB4100C	4 Pole 100A C Curve MCB 10KA	30

Function

protection of circuits against short-circuit currents,
protection of circuits against overload currents,
switch,
isolation





Technical data

Standard			IEC/EN 60947-2
features	Rated current I_n	A	80/100
	Poles		2B 3P 4P 5P
	Rated voltage U_e	V	230/400
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50
	Rated breaking capacity	kA	10
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2.0
	Pollution degree		3
	Thermo-magnetic release characteristic		8-12 I_n
features	Electrical life		1,500
	Mechanical life		8,500
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	°C	-5. . . +40 (Special application please refer to P28 for temperature compensation correction)
	Storage temperature	°C	-25. . . +70
Installation	Terminal connection type		Cable/ Pin-type busbar
	Terminal size top/bottom for cable	mm ²	16~50
		AWG	6-1/0
	Terminal size top/bottom for busbar	mm ²	16~35
		AWG	6-2
	Tightening torque	N*m	3.5
		In-lbs.	31
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device

Temperature derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

The reference temperature is 30°C

Rated current I_n (A)	Temperature compensation coefficient under various operational temperature							
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
100	1	1.21	1.135	1.075	1.00	0.925	0.845	0.755