

1.General

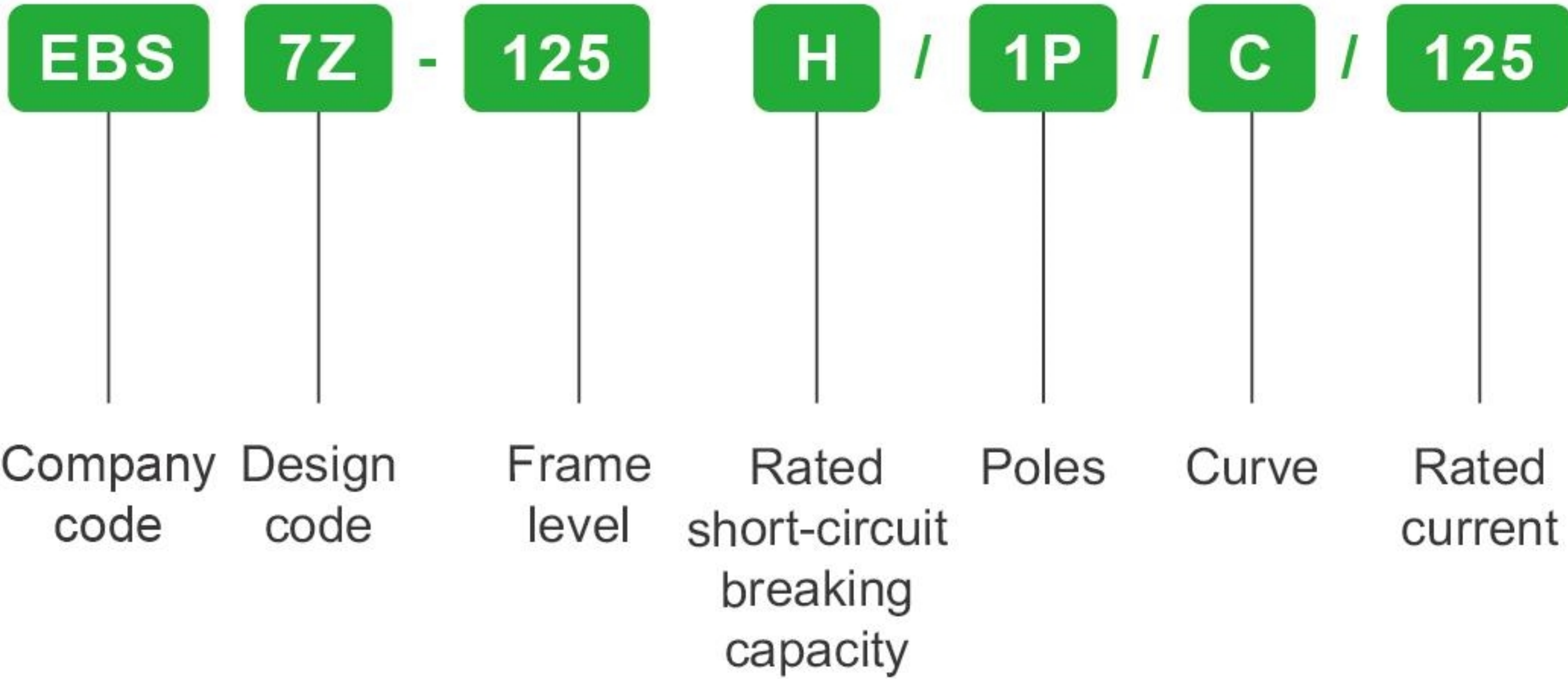
1.1 Function
Protection of DC circuits against short-circuit and overload currents, switching and isolation.
EBS7Z-125H DC mini circuit breakers are suitable for higher-current DC power distribution systems and electrical equipment, including photovoltaic, energy storage and other DC applications.

1.2 Selection
Technical data of the DC system at the point considered: rated voltage, rated current, number of poles and prospective short-circuit current.
The prospective short-circuit current at the circuit-breaker installation point must not exceed the breaking capacity of the device.

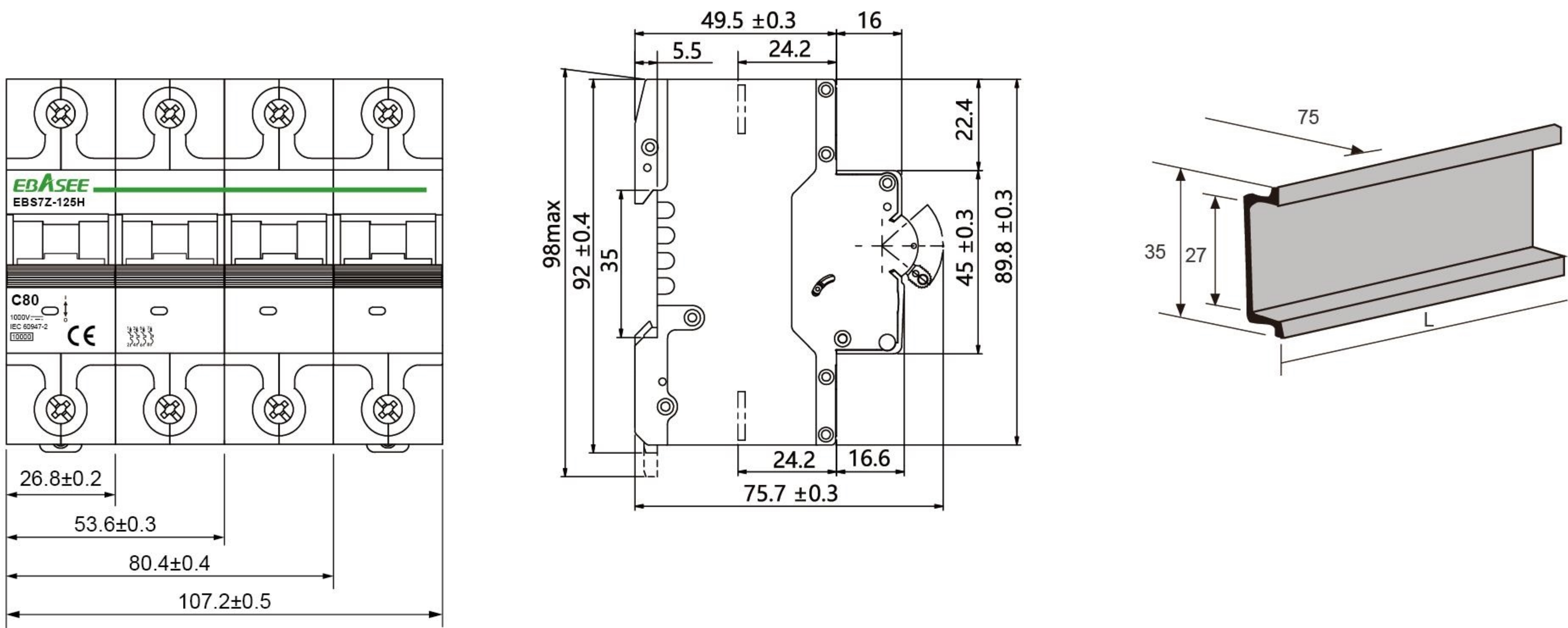
The appropriate tripping curve should be selected according to the load characteristics:
B curve (4In–7In)
Suitable for circuits with relatively low inrush current.
C curve (6In–10In)
Suitable for general circuits and loads with moderate inrush current.
D curve (10In–14In)
Suitable for circuits supplying loads with high inrush current.
EBS7Z-125H adopts a non-polarized design, allowing flexible wiring without polarity restrictions.



2.Nomenclature



3.Dimensions



4.Specifications

Standard		IEC60947-2
Rated frame current	A	125
Rated insulation voltage Ui	V	DC 1000V
Rated impulse withstand Uimpvoltage Uimp	kV	6kV
Rated current		32, 40, 50, 63, 80, 100, 125
Rated voltage	V	DC250V(1P), DC500V(2P), DC750V(3P), DC1000V(4P)
Tripping curve		B: (4In-7In), C: 8In±20%, D: 12In+20%
Poles		1P, 2P, 3P, 4P
Unipolar width	mm	27
Ultimate short-circuitbreaking capacity Icu	kA	10
Operating short-circuit breaking capacity Ics	kA	7.5
Reference temperature	°C	30°C
Usage Category		A
Mechanical life		20,000/order
Electrical lifespan		1500/more than once
Protection grade		IP20
Wiring capacity	mm²	50
Connection		Both upper and lower incoming lines are acceptable