# **DIGITAL CATALOG EKM1-63H 10KA MCB**

Mini Circuit Breaker Standard\_ IEC60898-1

ЕТЭК



### **Technical Data**

Electrical	Rated current In	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Features	Poles	1P, 1P+N, 2P, 3P, 3P+N,4P
	Rated voltage Ue	230/400V~,120-240V
	Insulation voltage Ui	500V
	Rated frequency	50/60Hz
	Rated breaking capacity	10000 A at 230 VAC (1P) at 230/400 VAC (2P, 3P) and 400/415 VAC (4P) according to IEC 60898-1
	Energy limiting class	3
	Rated impulse withstand voltage Uimp	6,000V
	Dielectric test voltage at ind. Freq. for 1 min	2kV
	Pollution degree	2
	Thermo-magnetic release characteristic	B,C,D
	Firing unit	Thermal magnetic
Mechanical	Electrical life	Up or same to 4,000 Cycles
Features	Mechanical life	20,000 Cycles
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal element	30°C
	Ambient temperature (with daily average≤35°C)	-5°C~+40°C
	Storage temperature	-25°C~+70°C
	Over tension catagory	Ш
Installation	Terminal connection type	Cable (aluminum and copper)/Pin-type/U-type busbar
	Terminal size top/bottom for cable	25mm <sup>2</sup> 18-4AWG
	Terminal size top/bottom for busbar	25mm <sup>2</sup> 18-4AWG
	Tightening torque	2.0Nm 22In-Ibs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	Power supply in both directions
Combination	Auxiliary contact	Yes
with	Alarm contact	Yes
accessories	Shunt release	Yes
	Over/Under voltage release	Yes

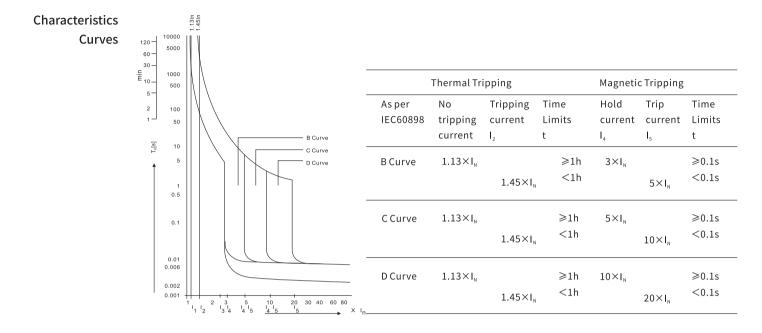
## **DIGITAL CATALOG EKM1-63H 10KA MCB**

#### 

ЭK

( = )

#### **MCB** Characteristics



Tripping Based on the Tripping Characteristics, MCB are available in "B", "C" and "D" curve to suit different types of characteristics applications.

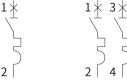
> "B" Curve for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits) Short circuit release is set to (3-5)In.

> > 3 \*

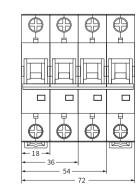
"C" Curve for protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits) Short circuit release is set to (5-10)In.

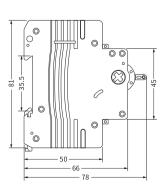
"D" Curve for protection of electrical circuits with cause high inrush current typically 12-15 times the thermal rated

#### **Circuit Diagram**



#### Overall and Installation Dimension(mm)





5