

# Miniature Circuit Breakers

## DIN rail mounting

### BKN-b type (High rupturing capacity)



CE  
Certificate  
Patent  
protection



BKN-b 2P

#### Technical data

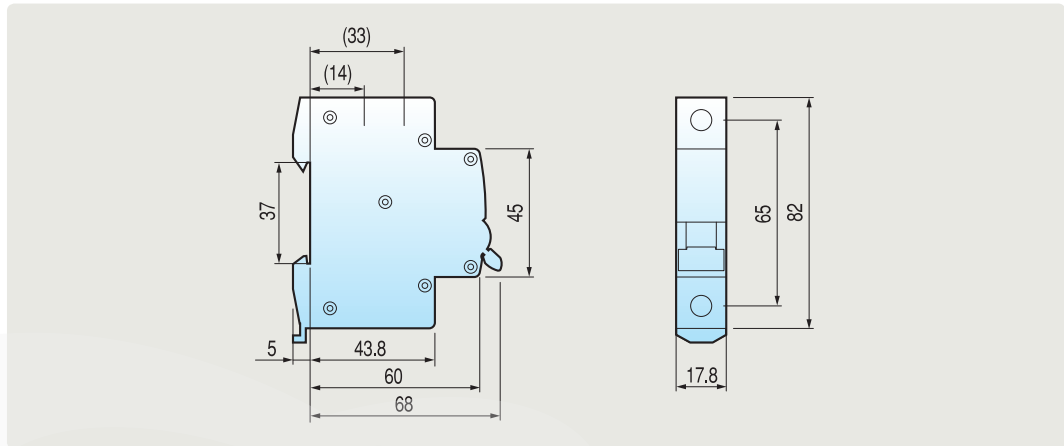
Standard	Confirming to IEC 60898-1	
Approval	KEMA CB, SABS, CE	
Protection	Against overload and short circuit	
Rated current	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A	
Rated voltage	1pole 240/415VAC 50/60Hz 2, 3, 4pole 415VAC 50/60Hz	
Ambient temperature	-5°C to +40°C pursuant to IEC 60898-1	
Breaking capacity	10kA	
Characteristic	B, C, D curve	
Number of poles	1P, 1P+N, 2P, 3P, 3P+N and 4P	
Type of trip	Thermal-magnetic release	
Type of terminal	Dual type (Lug & Screw)	
Terminal capacity	Cables up to 25mm <sup>2</sup>	
Installation	Mounting on 35mm DIN rail	
Width	17.8mm per pole	
Electrical endurance	-	
In	1 ... 32A	40 ... 63A
Endurance	4,000 operations	4,000 operations
Max. frequency (Cycles/hour)	240	120

#### Influence of ambient temperature on nominal currents

Nominal current of MCB (A)	Internally resistance (mohm)	Power loss (W)	Max. impedance of impedance loop (Ohm)			Thermal correction of nominal currents				
			B	C	D	20°C	30°C	40°C	50°C	60°C
1	1215.69	1.24	46.20	25.70	14.40	1.05	1	0.95	0.90	0.85
2	343.28	1.38	21.60	12.02	6.73	2.08	2	1.92	1.84	1.74
3	128.09	1.15	16.90	9.40	5.26	3.18	3	2.82	2.61	2.37
4	105.53	1.68	10.68	5.94	3.33	4.24	4	3.76	3.52	3.24
6	29.22	1.08	7.14	3.97	2.22	6.24	6	5.76	5.52	5.30
10	14.49	1.55	3.87	2.15	1.21	10.60	10	9.30	8.60	7.80
16	10.00	2.56	2.24	1.25	0.70	16.80	16	15.20	14.20	13.30
20	8.02	3.32	1.55	0.86	0.48	21.00	20	19.00	17.80	16.80
25	3.11	2.00	2.43	1.35	0.76	26.20	25	23.70	22.20	20.70
32	3.05	3.17	1.27	0.71	0.40	33.50	32	30.40	28.40	27.50
40	2.16	3.40	0.60	0.33	0.19	42.00	40	38.00	35.60	33.20
50	1.65	4.20	0.71	0.39	0.22	52.50	50	47.40	44.00	40.50
63	1.68	6.30	0.47	0.32	0.15	66.20	63	58.00	54.20	49.20

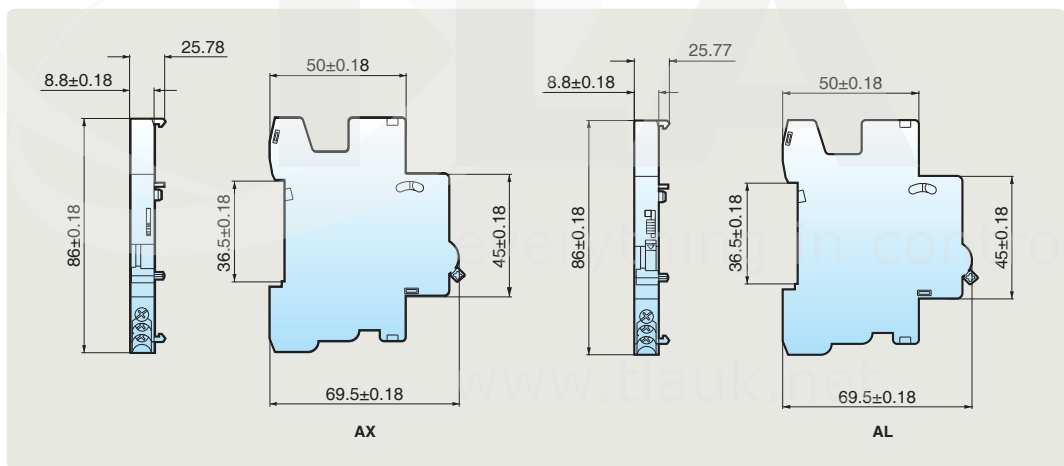
# Overall dimensions

BKN-b



BKN-b

AX/AL



connect it



switch it



control it



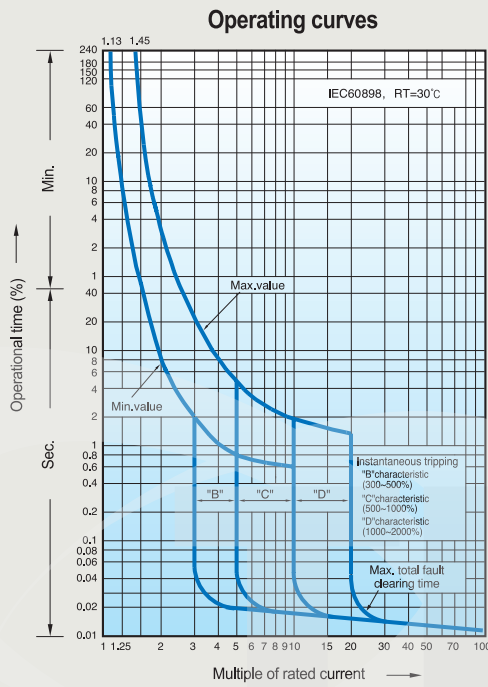
automate it



enclose it

# Characteristics curves & temperature compensation

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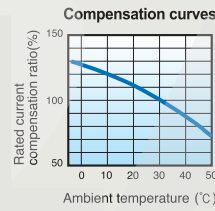


BKN-b

Temperature compensation table (IEC60898-1)

In(A)	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C
1	1,05	1,02	1,0	0,98	0,95	0,93	0,9	0,88	0,85
2	2,08	2,04	2,0	1,96	1,92	1,88	1,84	1,8	1,74
3	3,18	3,09	3,0	2,91	2,82	2,7	2,61	2,49	2,37
4	4,24	4,12	4,0	3,88	3,76	3,64	3,52	3,36	3,24
6	6,24	6,12	6,0	5,88	5,76	5,64	5,52	5,4	5,3
10	10,6	10,3	10,0	9,7	9,3	9,0	8,6	8,2	7,8
16	16,8	16,5	16,0	15,5	15,2	14,7	14,2	13,8	13,3
20	21,0	20,6	20,0	19,4	19,0	18,4	17,8	17,4	16,8
25	26,2	25,7	25,0	24,2	23,7	23,0	22,2	21,5	20,7
32	33,5	32,9	32,0	31,4	30,4	29,8	28,4	28,2	27,5
40	42,0	41,2	40,0	38,8	38,0	36,8	35,6	34,4	33,2
50	52,5	51,5	50,0	48,5	47,4	45,5	44,0	42,5	40,5
63	66,2	64,9	63,0	61,0	58,0	56,7	54,2	51,7	49,2

I1: 113% In, I2: 145% In according to IEC60898-1



everything in control

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connect it



switch it



control it



automate it



enclose it