AD60 - MINI CIRCUIT BREAKER

DESCRIPTION / APPLICATION

A circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit. Its basic function is to interrupt current flow after a fault is detected. Circuit breakers are rated both by the normal current that they are expected to carry, and the maximum short-circuit current that they can safely interrupt. This latter figure is the ampere interrupting capacity (AIC) of the breaker. It is in conformity with IEC 60947 standard.

MAIN TECHNICAL DATA

Electrical Features	Standard		SANS556-1 IEC60947-2
	Rated current	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
	Poles		1P, 2P, 3P, 4P*
	AC Volts	V	230V, 400V
	Rated frequency	Hz	50/60
	Rated breaking capacity	kA	6kA
Mechanical Features	Thermo-magnetic release characteristic	Curve	B*, C (white toggle), D* (orange toggle)
	Electrical life expectancy	h	4000
	Mechanical life expectancy	h	10000
	Protection degree		IP20
	Best Ambient temperature	℃	30
Installation	Ambient temperature (with daily average≤35℃)	℃	-30℃ to +60℃
	Terminal connection type		Cable/Pin-type busbar
	Connection		Top and bottom
	Tighten torque (max)	Nm	2.5Nm
	Mounting		DIN Rail EN 60715(35mm) by means of fast clip device

***** Available on request

PART NUMBER EXAMPLE

BASE NUMBER	KA RATING	POLES	AMPERAGE	CURVE
CB-AD60	6KA	1P	1A	C / D
EXAMPLE	**CB-AD60-6101**			
	CB-AD60-6101D			

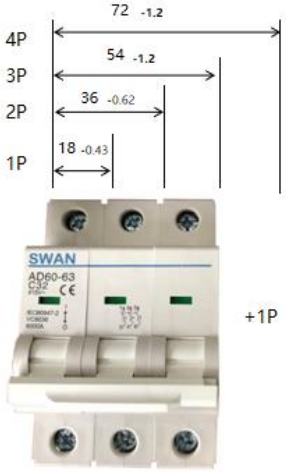
TEMPERATURE DERATING

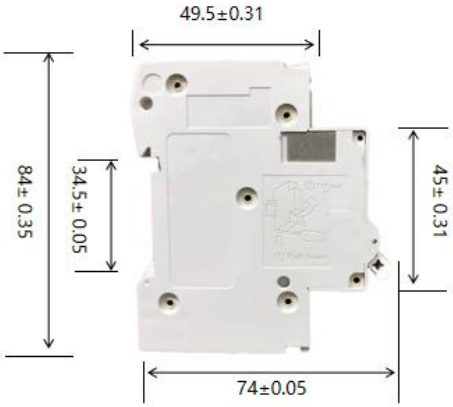
The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. South Africa is calibrated at 40°C.

RATED CURRENT	TEMPERATURE COMPENSATION RATE CORRESPONDING TO DIFFERENT TEMPERATURES									
	-25C	**-15C**	**-5C**	**0C**	**10C**	**20C**	**30C**	**40C**	**50C**	**60C**
1A	1.26	1.23	1.19	1.15	1.11	1.05	1.00	0.96	0.93	0.88
2A	2.52	2.46	2.38	2.28	2.20	2.08	2.00	1.92	1.86	1.76
3A	3.78	3.69	3.57	3.42	3.30	3.12	3.00	2.88	2.79	2.64
4A	5.04	4.92	4.76	4.56	4.40	4.16	4.00	3.84	3.76	3.52
6A	7.56	7.38	7.14	6.84	6.60	6.24	6.00	5.76	5.64	5.28
10A	12.7	12.50	12.00	11.50	11.10	10.60	10.00	9.60	93.00	8.90
16A	20.48	20.00	19.20	18.40	17.76	16.96	16.00	15.36	14.88	14.24
20A	25.60	25.00	24.00	23.00	22.20	21.20	20.00	19.20	18.60	17.80
25A	32.00	31.25	30.00	28.75	27.75	26.50	25.00	24.00	23.25	22.25
32A	41.28	40.00	38.72	37.12	35.52	33.92	32.00	30.72	29.76	28.16

RATED CURRENT	TEMPERATURE COMPENSATION RATE CORRESPONDING TO DIFFERENT TEMPERATURES									
	-25C	-15C	-5C	0C	10C	20C	30C	40C	50C	60C
40A	51.20	50.00	48.00	46.40	44.80	42.40	40.00	38.40	37.20	35.60
50A	65.50	63.00	60.50	58.00	56.00	53.00	50.00	48.00	46.50	44.00
63A	81.90	80.01	76.86	73.71	70.56	66.78	63.00	60.48	58.90	55.44

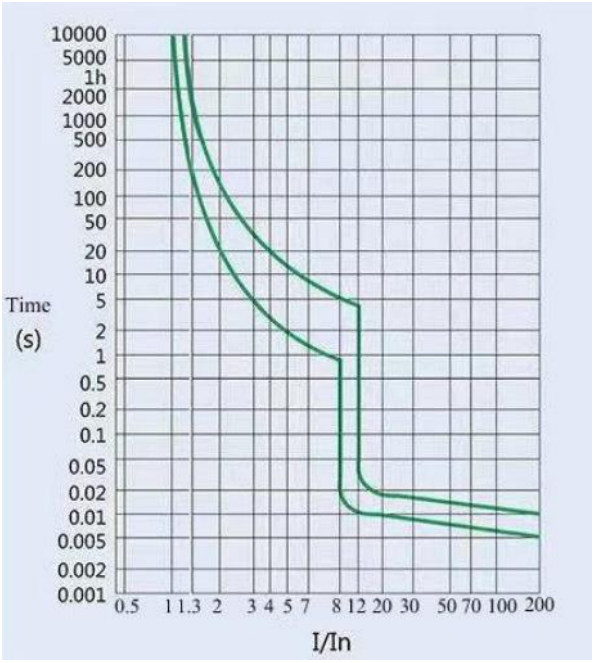
DIMENSIONS AND MOUNTING





TRIPPING CURVES

C Curve



D Curve