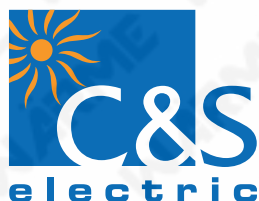


WiNtrip 2

IEC60947-2

Protects from
overload & short-circuit



**Miniature
Circuit Breaker**

WiNtrip 2

Miniature Circuit Breaker



As power distribution needs play a pivotal role in all the significant sectors namely Commercial, Industrial and Residential, improved Breaker performance through better electrical safety, higher operational endurance, continued service and reduced cost have become of paramount importance. C&S WiNtrip2 MCBs have been engineered to constantly fulfill the above requirements. With these features C&S is setting new standards for user friendly and superlative electrical circuit protection.

The C&S WiNtrip2 MCB is a high performing thermal magnetic current limiting device with the ability to disconnect short circuits up to 10kA. The range is available in tripping characteristics types B and C curve for 1P, 1P+N, 2P, 3P, 3P+N & 4P configurations in 0.5 - 63A current ratings.

All metal components for operating mechanism of WiNtrip2 circuit breaker are specially treated for high self lubrication leading to repeat accuracy during service life. The MCBs conform to Standards: IEC 60947-2 and stand guaranteed for best quality for optimum performance.

Also includes

- Auxiliary Contacts & Shunt Trip
- RCCB and
- Distribution Boards



CB Certificate No. DK 50639-UL - IEC60947-2

Technical Data

MCB-AC

Specifications	WiNtrip2 MCB		WiNtrip2 Isolator
Type	'B'	'C'	
Standard Conformity	IEC60947-2		IEC60947-3
Rated Current (In)	6A-63A	0.5A-63A	25A-100A
Rated Voltage AC (Ue)	240/415V		240/415V
Rated Voltage DC (Ue)	60V		60V
Utilization Category	A		AC22A
Rated Frequency Hz	50/60Hz		50/60Hz
No. of Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N & 4P		1P, 2P, 3P & 4P
Short time with stand current (Icw)	-		12xIn-1 Sec.
Short time making current (Icm)	-		12xIn
Rated Short Circuit Breaking Capacity	10kA		-
Rated Insulation Voltage (Ui)	500V		660V
Magnetic Release Setting	4In ± 20%	8In ± 20%	-
Type of Release	Thermo Magnetic		-
Rated Impulse Voltage (Uimp)	6kV		6kV
Electrical/Mechanical Life ≤32A	30,000		30,000
>32A	10,000		10,000
Energy Limiting Class	ELC 3		-
Mounting	Clip on Din rail (35x7.5 mm)		Clip on Din rail (35x7.5 mm)
Line Terminal Capacity	35 mm ²		35 mm ²
Load Terminal Capacity	35 mm ²		35 mm ²
Degree of Protection	IP 20		IP 20
Circuit Breaker for use in IT Systems	Yes		-
Resistance to Shock	40mm free fall		40mm free fall
Ambient working temperature	-25°C to 70°C		-25°C to 70°C
Calibration temperature	30°C		30°C
Installation Position	Vertical/Horizontal		Vertical/Horizontal
Bi-connect terminal	Both side		Both side
Pollution degree	2		2

Miniature Circuit Breaker



Rating (A)	'B' Curve	'C' Curve
	Reference	Reference
1 Pole		
0.5	-	CSMBS1K0.5
01	-	CSMBS1K1
02	-	CSMBS1K2
03	-	CSMBS1K3
04	-	CSMBS1K4
05	-	CSMBS1K5
06	CSMBS1B6	CSMBS1K6
10	CSMBS1B10	CSMBS1K10
16	CSMBS1B16	CSMBS1K16
20	CSMBS1B20	CSMBS1K20
25	CSMBS1B25	CSMBS1K25
32	CSMBS1B32	CSMBS1K32
40	CSMBS1B40	CSMBS1K40
50	CSMBS1B50	CSMBS1K50
63	CSMBS1B63	CSMBS1K63
1Pole + Neutral		
0.5	-	CSMBS1K0.5N
01	-	CSMBS1K1N
02	-	CSMBS1K2N
03	-	CSMBS1K3N
04	-	CSMBS1K4N
05	-	CSMBS1K5N
06	CSMBS1B6N	CSMBS1K6N
10	CSMBS1B10N	CSMBS1K10N
16	CSMBS1B16N	CSMBS1K16N
20	CSMBS1B20N	CSMBS1K20N
25	CSMBS1B25N	CSMBS1K25N
32	CSMBS1B32N	CSMBS1K32N
40	CSMBS1B40N	CSMBS1K40N
50	CSMBS1B50N	CSMBS1K50N
63	CSMBS1B63N	CSMBS1K63N
2 Pole		
0.5	-	CSMBS2K0.5
01	-	CSMBS2K1
02	-	CSMBS2K2
03	-	CSMBS2K3
04	-	CSMBS2K4
05	-	CSMBS2K5
06	CSMBS2B6	CSMBS2K6
10	CSMBS2B10	CSMBS2K10
16	CSMBS2B16	CSMBS2K16
20	CSMBS2B20	CSMBS2K20
25	CSMBS2B25	CSMBS2K25
32	CSMBS2B32	CSMBS2K32
40	CSMBS2B40	CSMBS2K40
50	CSMBS2B50	CSMBS2K50
63	CSMBS2B63	CSMBS2K63

Miniature Circuit Breaker



Rating (A)	'B' Curve	'C' Curve
	Reference	Reference
3 Pole		
0.5	-	CSMBS3K0.5
01	-	CSMBS3K1
02	-	CSMBS3K2
03	-	CSMBS3K3
04	-	CSMBS3K4
05	-	CSMBS3K5
06	CSMBS3B6	CSMBS3K6
10	CSMBS3B10	CSMBS3K10
16	CSMBS3B16	CSMBS3K16
20	CSMBS3B20	CSMBS3K20
25	CSMBS3B25	CSMBS3K25
32	CSMBS3B32	CSMBS3K32
40	CSMBS3B40	CSMBS3K40
50	CSMBS3B50	CSMBS3K50
63	CSMBS3B63	CSMBS3K63
3 Pole + Neutral		
0.5	-	CSMBS3K0.5N
01	-	CSMBS3K1N
02	-	CSMBS3K2N
03	-	CSMBS3K3N
04	-	CSMBS3K4N
05	-	CSMBS3K5N
06	CSMBS3B6N	CSMBS3K6N
10	CSMBS3B10N	CSMBS3K10N
16	CSMBS3B16N	CSMBS3K16N
20	CSMBS3B20N	CSMBS3K20N
25	CSMBS3B25N	CSMBS3K25N
32	CSMBS3B32N	CSMBS3K32N
40	CSMBS3B40N	CSMBS3K40N
50	CSMBS3B50N	CSMBS3K50N
63	CSMBS3B63N	CSMBS3K63N
4 Pole		
0.5	-	CSMBS4K0.5
01	-	CSMBS4K1
02	-	CSMBS4K2
03	-	CSMBS4K3
04	-	CSMBS4K4
05	-	CSMBS4K5
06	CSMBS4B6	CSMBS4K6
10	CSMBS4B10	CSMBS4K10
16	CSMBS4B16	CSMBS4K16
20	CSMBS4B20	CSMBS4K20
25	CSMBS4B25	CSMBS4K25
32	CSMBS4B32	CSMBS4K32
40	CSMBS4B40	CSMBS4K40
50	CSMBS4B50	CSMBS4K50
63	CSMBS4B63	CSMBS4K63

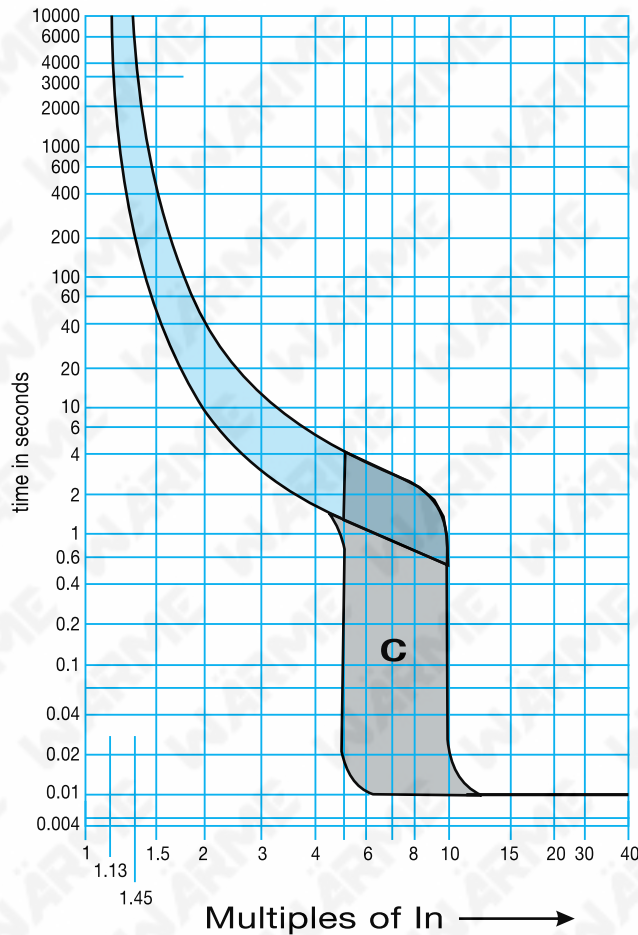
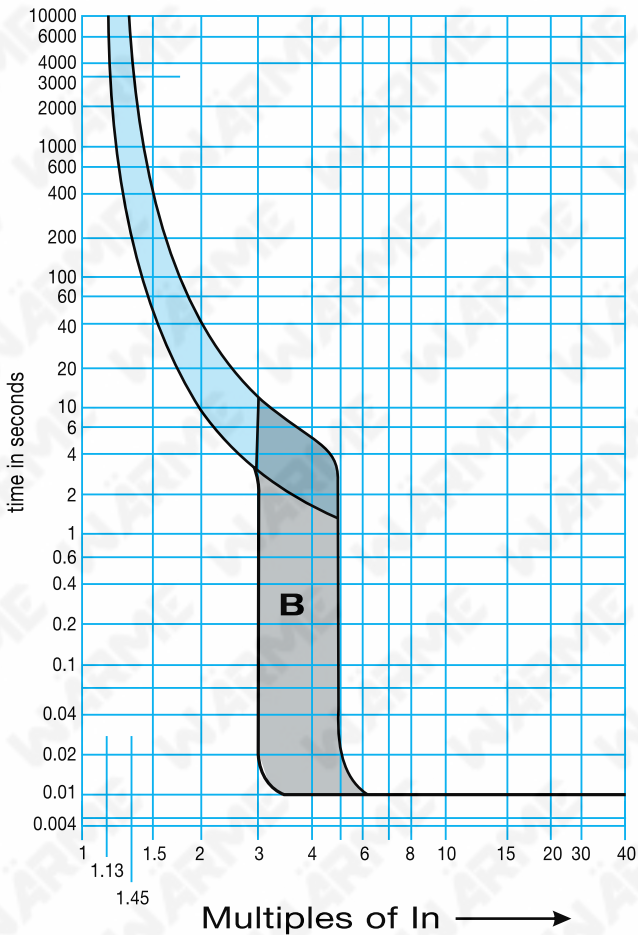
Product Reference



Isolator

Rating (A)	1 Pole	2 Pole	3 Pole	4 Pole
	Reference	Reference	Reference	Reference
25	CSMBS1ISO25	CSMBS2ISO25	CSMBS3ISO25	CSMBS4ISO25
32	CSMBS1ISO32	CSMBS2ISO32	CSMBS3ISO32	CSMBS4ISO32
40	CSMBS1ISO40	CSMBS2ISO40	CSMBS3ISO40	CSMBS4ISO40
63	CSMBS1ISO63	CSMBS2ISO63	CSMBS3ISO63	CSMBS4ISO63
80	CSMBS1ISO80	CSMBS2ISO80	CSMBS3ISO80	CSMBS4ISO80
100	CSMBS1ISO100	CSMBS2ISO100	CSMBS3ISO100	CSMBS4ISO100
125	CSMBS1ISO125	CSMBS2ISO100	CSMBS3ISO125	CSMBS4ISO125

Tripping Characteristics



Tripping Characteristics - IEC 60947-2

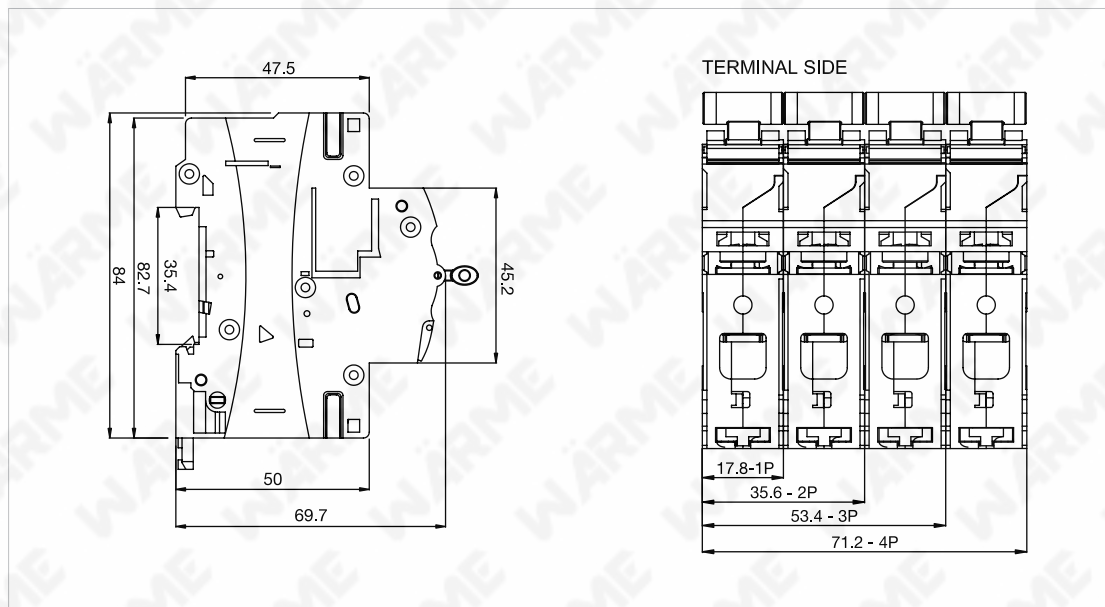
Type	Application	Thermal Test Current		Tripping Time In 63A	Electro Magnetic Test Current		Tripping Time (t)
		Low	High				
'B'	Lighting & Distribution with no surge Current	1.13xIn		>1hour	3xIn		0.1s
			1.45xIn	<1hour		5xIn	<0.1s
'C'	High Inductive Load & High Inrush Current	1.05xIn		≥1hour	5xIn		0.1s
			1.30xIn	≤2hour		10xIn	<0.1s

Temperature derating

The reference temperature is 30°C

In	-25°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
6A	7.5	7	6.6	6.4	6.18	6	5.8	5.6	5.4	5.2
10A	12.5	11.5	11.1	10.7	10.3	10	9.7	9.3	9.0	8.7
13A	16.3	15.2	14.6	14.1	13.5	13	12.5	11.9	11.5	11.0
16A	20	18.7	18	17.3	16.6	16	15.4	14.7	14.1	13.5
20A	25	23.2	22.4	21.6	20.8	20	19.2	18.4	17.6	16.8
25A	31.5	29.3	28.3	27.2	26	25	24	22.7	21.7	20.7
32A	41	37.8	36.5	34.9	33.3	32	30.7	29.1	27.8	26.5
40A	51	48	46	44	42	40	38	36	34	32
50A	64	60	57.7	55	52.5	50	47.5	45	42.5	40
63A	80.6	75.6	72.5	69.9	66.1	63	59.6	56.2	52.5	50.4

Installation Dimensions



All Dimensions are in mm



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