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WiNtrip 2

Protects from
overload & short-circuit

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222, Okhla Industrial Estate, Phase - III, New Delhi - 110 020

Ph. : (+91 11) 3384 9000 - 09 • Fax : (+91 11) 26847342 • E-Mail : cmo@cselectric.co.in

CUSTOMER CARE

Toll Free Number: 1800 572 2012

E-mail: customercare@cselectric.co.in

NORTHERN REGION

DELHI

Ph. : (+91 11) 3384 9000 - 09

Fax : (+91 11) 26847342

E-Mail : cmo@cselectric.co.in

CHANDIGARH

Ph. : (+91 172) 3021144

Fax : (+91 172) 2631059-3201144

E-Mail : chandigarh@cselectric.co.in

LUDHIANA

Ph. : (+91 161) 2541900, 2541800

Fax : (+91 161) 2541900, 2541800

E-Mail : ludhiana@cselectric.co.in

LUCKNOW

Ph. : (+91 522) 3917843, 4102044

E-Mail : lucknow@cselectric.co.in

KANPUR

Ph. : (+91 522) 3917843, 4102044

E-Mail : kanpur@cselectric.co.in

INDORE

Ph. : (+91 731) 4035761, 3918020

E-Mail : indore@cselectric.co.in

RAIPUR

Ph. : (+91 771) 4061404

E-Mail : raipur@cselectric.co.in

NAGPUR

Ph. : (+91 712) 2565215, 2547295

Fax : (+91 712) 2528923

E-Mail : nagpur@cselectric.co.in

EASTERN REGION

KOLKATA

Ph. : (+91 33) 39212100-01

Fax : (+91 33) 22275849

E-Mail : kolkata@cselectric.co.in

GUWAHATI

Ph. : (+91 361) 2469950

E-Mail : guwahati@cselectric.co.in

RANCHI

Ph. : (+91 651) 2242202, 2242224

E-Mail : ranchi@cselectric.co.in

BHUBANESWAR

Ph. : (+91 674) 2580788, 9778070465

E-Mail : bhubaneshwar@cselectric.co.in

WESTERN REGION

MUMBAI

Ph. : (+91 22) 24114727-28, 30484071-73

Fax : (+91 22) 24126631

E-Mail : mumbai@cselectric.co.in

AHMEDABAD

Ph. : (+91 79) 61565115

Fax : (+91 79) 61565151

E-Mail : ahmedabad@cselectric.co.in

BARODA

Ph. : (+91 265) 2339479, 2356293

Fax : (+91 265) 2338754

E-Mail : baroda@cselectric.co.in

PUNE

Ph. : (+91 20) 24250518, 24250519

E-Mail : pune@cselectric.co.in

SURAT

Ph. : (+91 261) 6544024-28

E-Mail : surat@cselectric.co.in

JAIPUR

Ph. : (+91 141) 4037651

Fax : (+91 141) 4033954

E-Mail : jaipur@cselectric.co.in

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Ph. : (+91 44) 39180512 - 15

Fax : (+91 44) 39180514

E-Mail : chennai@cselectric.co.in

COIMBATORE

Ph. : (+91 422) 3048406 - 20

Fax : (+91 422) 3048412

E-Mail : coimbatore@cselectric.co.in

KOCHI

Ph. : (+91 484) 3071715 (10 LINES)

Fax : (+91 484) 3071716

E-Mail : cochin@cselectric.co.in

MADURAI

E-Mail : commercial.madurai@cselectric.co.in

BENGALURU

Ph. : (+91 80) 30570365 / 364

Fax : (+91 80) 25594939

E-Mail : bangalore@cselectric.co.in

SECUNDERABAD

Ph. : (+91 40) 48534080

Fax : (+91 40) 27812987

E-Mail : hyderabad@cselectric.co.in

VIJAYAWADA

Ph. : (+91 866) 2496265 / 67

E-Mail : vijayawada@cselectric.co.in

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0.5A~63A



Miniature Circuit Breaker

We touch your electricity everyday!

WiNtrip2

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, C, D and K 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/EN 60898-1 / IEC 60947-2 and stand guaranteed for best quality for optimum performance.

Also includes

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

Technical Data

MCB-AC

Specifications	WiNtrip2 MCB				WiNtrip2 Isolator
	'B'	'C'	'D'	'K'	
Type					
Standard Conformity	IEC/EN60898-1 / 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			10kA	-
Rated Insulation Voltage (Ui)	660V			500V	660V
Magnetic Release Setting	(3-5) In	(5-10) In	(10-20) In	10 In	-
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
Ambient reference temperature	30°C			40°C	30°C
Installation Position	Vertical/Horizontal				Vertical/Horizontal
Bi-connect terminal	Both side				Both side
Pollution degree	-				2

Operational voltage (Un): 240/415V, 50/60Hz can be used in systems upto 60V DC in SP and 110V DC in 2P
Breaking Capacity: 10KA as per IS/IEC 60898-1

*In DC Circuit: Working up to 60V per pole

MCB-DC

Circuit Breakers for DC application are engineered to fulfill tough arc quenching conditions. DC MCB incorporates built in magnet to direct the arc into the arc quenching chamber.

Specifications	WiNtrip2 MCB
Standard Conformity	IS/IEC60898-2-2003
Current Rating	0.5A-63A
No. of Poles	1P & 2P
Voltage Rating	220 V Per Pole
Short Circuit Breaking Capacity	10kA



CB Certificate No. DK 50683-UL - IEC/EN60898-1

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

Miniature Circuit Breaker

Rating (A)	'B' Curve	'C' Curve	'D' Curve	'K' Curve
	Reference	Reference	Reference	Reference
1 Pole				
0.5	-	CSMBS1C0.5	CSMBS1D0.5	CSMBS1K0.5
01	-	CSMBS1C1	CSMBS1D1	CSMBS1K1
02	-	CSMBS1C2	CSMBS1D2	CSMBS1K2
03	-	CSMBS1C3	CSMBS1D3	CSMBS1K3
04	-	CSMBS1C4	CSMBS1D4	CSMBS1K4
05	-	CSMBS1C5	CSMBS1D5	CSMBS1K5
06	CSMBS1B6	CSMBS1C6	CSMBS1D6	CSMBS1K6
10	CSMBS1B10	CSMBS1C10	CSMBS1D10	CSMBS1K10
16	CSMBS1B16	CSMBS1C16	CSMBS1D16	CSMBS1K16
20	CSMBS1B20	CSMBS1C20	CSMBS1D20	CSMBS1K20
25	CSMBS1B25	CSMBS1C25	CSMBS1D25	CSMBS1K25
32	CSMBS1B32	CSMBS1C32	CSMBS1D32	CSMBS1K32
40	CSMBS1B40	CSMBS1C40	CSMBS1D40	CSMBS1K40
50	CSMBS1B50	CSMBS1C50	CSMBS1D50	CSMBS1K50
63	CSMBS1B63	CSMBS1C63	CSMBS1D63	CSMBS1K63
1Pole + Neutral				
0.5	-	CSMBS1C0.5N	CSMBS1D0.5N	CSMBS1K0.5N
01	-	CSMBS1C1N	CSMBS1D1N	CSMBS1K1N
02	-	CSMBS1C2N	CSMBS1D2N	CSMBS1K2N
03	-	CSMBS1C3N	CSMBS1D3N	CSMBS1K3N
04	-	CSMBS1C4N	CSMBS1D4N	CSMBS1K4N
05	-	CSMBS1C5N	CSMBS1D5N	CSMBS1K5N
06	CSMBS1B6N	CSMBS1C6N	CSMBS1D6N	CSMBS1K6N
10	CSMBS1B10N	CSMBS1C10N	CSMBS1D10N	CSMBS1K10N
16	CSMBS1B16N	CSMBS1C16N	CSMBS1D16N	CSMBS1K16N
20	CSMBS1B20N	CSMBS1C20N	CSMBS1D20N	CSMBS1K20N
25	CSMBS1B25N	CSMBS1C25N	CSMBS1D25N	CSMBS1K25N
32	CSMBS1B32N	CSMBS1C32N	CSMBS1D32N	CSMBS1K32N
40	CSMBS1B40N	CSMBS1C40N	CSMBS1D40N	CSMBS1K40N
50	CSMBS1B50N	CSMBS1C50N	CSMBS1D50N	CSMBS1K50N
63	CSMBS1B63N	CSMBS1C63N	CSMBS1D63N	CSMBS1K63N
2 Pole				
0.5	-	CSMBS2C0.5	CSMBS2D0.5	CSMBS2K0.5
01	-	CSMBS2C1	CSMBS2D1	CSMBS2K1
02	-	CSMBS2C2	CSMBS2D2	CSMBS2K2
03	-	CSMBS2C3	CSMBS2D3	CSMBS2K3
04	-	CSMBS2C4	CSMBS2D4	CSMBS2K4
05	-	CSMBS2C5	CSMBS2D5	CSMBS2K5
06	CSMBS2B6	CSMBS2C6	CSMBS2D6	CSMBS2K6
10	CSMBS2B10	CSMBS2C10	CSMBS2D10	CSMBS2K10
16	CSMBS2B16	CSMBS2C16	CSMBS2D16	CSMBS2K16
20	CSMBS2B20	CSMBS2C20	CSMBS2D20	CSMBS2K20
25	CSMBS2B25	CSMBS2C25	CSMBS2D25	CSMBS2K25
32	CSMBS2B32	CSMBS2C32	CSMBS2D32	CSMBS2K32
40	CSMBS2B40	CSMBS2C40	CSMBS2D40	CSMBS2K40
50	CSMBS2B50	CSMBS2C50	CSMBS2D50	CSMBS2K50
63	CSMBS2B63	CSMBS2C63	CSMBS2D63	CSMBS2K63

Miniature Circuit Breaker

Rating (A)	'B' Curve	'C' Curve	'D' Curve	'K' Curve
	Reference	Reference	Reference	Reference
3 Pole				
0.5	-	CSMBS3C0.5	CSMBS3D0.5	CSMBS3K0.5
01	-	CSMBS3C1	CSMBS3D1	CSMBS3K1
02	-	CSMBS3C2	CSMBS3D2	CSMBS3K2
03	-	CSMBS3C3	CSMBS3D3	CSMBS3K3
04	-	CSMBS3C4	CSMBS3D4	CSMBS3K4
05	-	CSMBS3C5	CSMBS3D5	CSMBS3K5
06	CSMBS3B6	CSMBS3C6	CSMBS3D6	CSMBS3K6
10	CSMBS3B10	CSMBS3C10	CSMBS3D10	CSMBS3K10
16	CSMBS3B16	CSMBS3C16	CSMBS3D16	CSMBS3K16
20	CSMBS3B20	CSMBS3C20	CSMBS3D20	CSMBS3K20
25	CSMBS3B25	CSMBS3C25	CSMBS3D25	CSMBS3K25
32	CSMBS3B32	CSMBS3C32	CSMBS3D32	CSMBS3K32
40	CSMBS3B40	CSMBS3C40	CSMBS3D40	CSMBS3K40
50	CSMBS3B50	CSMBS3C50	CSMBS3D50	CSMBS3K50
63	CSMBS3B63	CSMBS3C63	CSMBS3D63	CSMBS3K63
3 Pole + Neutral				
0.5	-	CSMBS3C0.5N	CSMBS3D0.5N	CSMBS3K0.5N
01	-	CSMBS3C1N	CSMBS3D1N	CSMBS3K1N
02	-	CSMBS3C2N	CSMBS3D2N	CSMBS3K2N
03	-	CSMBS3C3N	CSMBS3D3N	CSMBS3K3N
04	-	CSMBS3C4N	CSMBS3D4N	CSMBS3K4N
05	-	CSMBS3C5N	CSMBS3D5N	CSMBS3K5N
06	CSMBS3B6N	CSMBS3C6N	CSMBS3D6N	CSMBS3K6N
10	CSMBS3B10N	CSMBS3C10N	CSMBS3D10N	CSMBS3K10N
16	CSMBS3B16N	CSMBS3C16N	CSMBS3D16N	CSMBS3K16N
20	CSMBS3B20N	CSMBS3C20N	CSMBS3D20N	CSMBS3K20N
25	CSMBS3B25N	CSMBS3C25N	CSMBS3D25N	CSMBS3K25N
32	CSMBS3B32N	CSMBS3C32N	CSMBS3D32N	CSMBS3K32N
40	CSMBS3B40N	CSMBS3C40N	CSMBS3D40N	CSMBS3K40N
50	CSMBS3B50N	CSMBS3C50N	CSMBS3D50N	CSMBS3K50N
63	CSMBS3B63N	CSMBS3C63N	CSMBS3D63N	CSMBS3K63N
4 Pole				
0.5	-	CSMBS4C0.5	CSMBS4D0.5	CSMBS4K0.5
01	-	CSMBS4C1	CSMBS4D1	CSMBS4K1
02	-	CSMBS4C2	CSMBS4D2	CSMBS4K2
03	-	CSMBS4C3	CSMBS4D3	CSMBS4K3
04	-	CSMBS4C4	CSMBS4D4	CSMBS4K4
05	-	CSMBS4C5	CSMBS4D5	CSMBS4K5
06	CSMBS4B6	CSMBS4C6	CSMBS4D6	CSMBS4K6
10	CSMBS4B10	CSMBS4C10	CSMBS4D10	CSMBS4K10
16	CSMBS4B16	CSMBS4C16	CSMBS4D16	CSMBS4K16
20	CSMBS4B20	CSMBS4C20	CSMBS4D20	CSMBS4K20
25	CSMBS4B25	CSMBS4C25	CSMBS4D25	CSMBS4K25
32	CSMBS4B32	CSMBS4C32	CSMBS4D32	CSMBS4K32
40	CSMBS4B40	CSMBS4C40	CSMBS4D40	CSMBS4K40
50	CSMBS4B50	CSMBS4C50	CSMBS4D50	CSMBS4K50
63	CSMBS4B63	CSMBS4C63	CSMBS4D63	CSMBS4K63





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

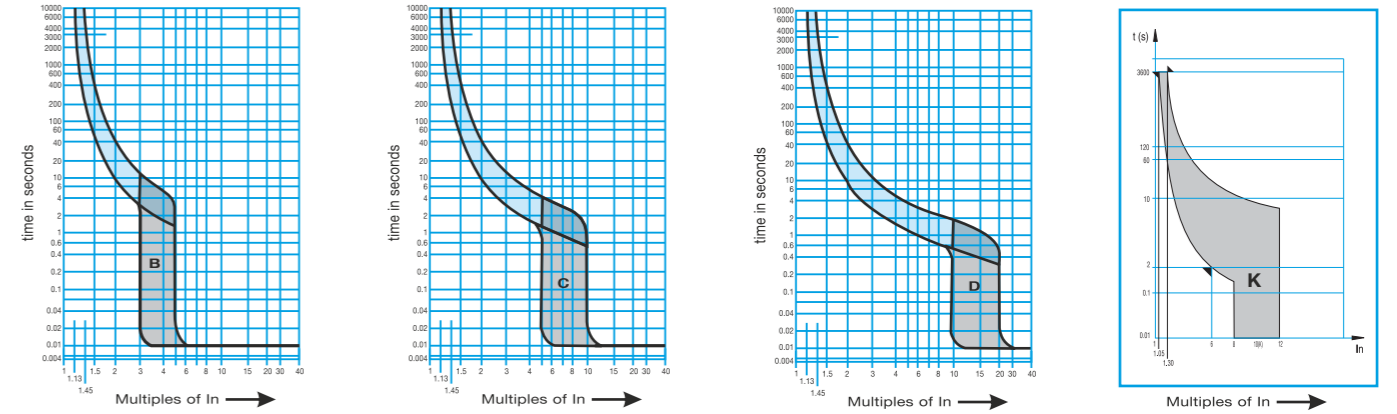
Miniature Circuit Breaker - DC

Rating (A)	1 Pole	2 Pole
	Reference	Reference
0.5	CSMBS1DC0.5	CSMBS2DC0.5
01	CSMBS1DC1	CSMBS2DC1
02	CSMBS1DC2	CSMBS2DC2
03	CSMBS1DC3	CSMBS2DC3
04	CSMBS1DC4	CSMBS2DC4
05	CSMBS1DC5	CSMBS2DC5
06	CSMBS1DC6	CSMBS2DC6
10	CSMBS1DC10	CSMBS2DC10
16	CSMBS1DC16	CSMBS2DC16
20	CSMBS1DC20	CSMBS2DC20
25	CSMBS1DC25	CSMBS2DC25
32	CSMBS1DC32	CSMBS2DC32
40	CSMBS1DC40	CSMBS2DC40
50	CSMBS1DC50	CSMBS2DC50
63	CSMBS1DC63	CSMBS2DC63

Miniature Circuit Breaker - Higher Ratings

Rating (A)	1 Pole	2 Pole	3 Pole	4 Pole
	Reference	Reference	Reference	Reference
80	CSMBH1C80	CSMBH2C80	CSMBH3C80	CSMBH4C80
100	CSMBH1C100	CSMBH2C100	CSMBH3C100	CSMBH4C100
125	CSMBH1C125	CSMBH2C125	CSMBH3C125	CSMBH4C125

Tripping Characteristics



Tripping Characteristics - IS/IEC 60898-1

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'	Inductive Load with surge Current	1.13xIn		>1hour	5xIn		0.1s
			1.45xIn	<1hour		10xIn	<0.1s
'D'	High Inductive Load & High Inrush Current	1.13xIn		>1hour	10xIn		0.1s
			1.45xIn	<1hour		20xIn	<0.1s
'K'	High Inductive Load & High Inrush Current	1.05xIn		≥1hour	IEC 60947-2 C&S offers instantaneous tripping ranges - K: 10In		
			1.30xIn	≤2hour			

*2.55xIn 1s<t<60s for In 32A 1s<t<120s for In>32A

Temperature Deration Factor Reference Ambient Temperature 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

