

MCB Miniature Circuit Breakers series BS, 4,5kA - 1+N on 1MW



BS417502

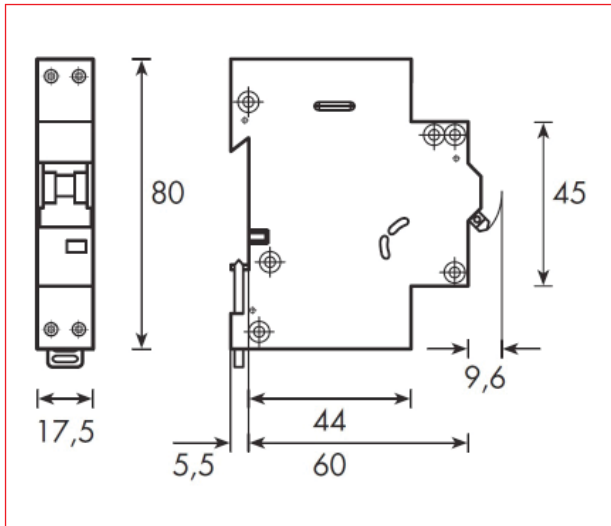
Schrack-Info

Single pole with switchable N-Conductor on 17.5mm (1MW)

- Rated breaking capacity 4.5kA according EN 60898
- Contact position indicator
- Terminal cross-section 1-16mm²

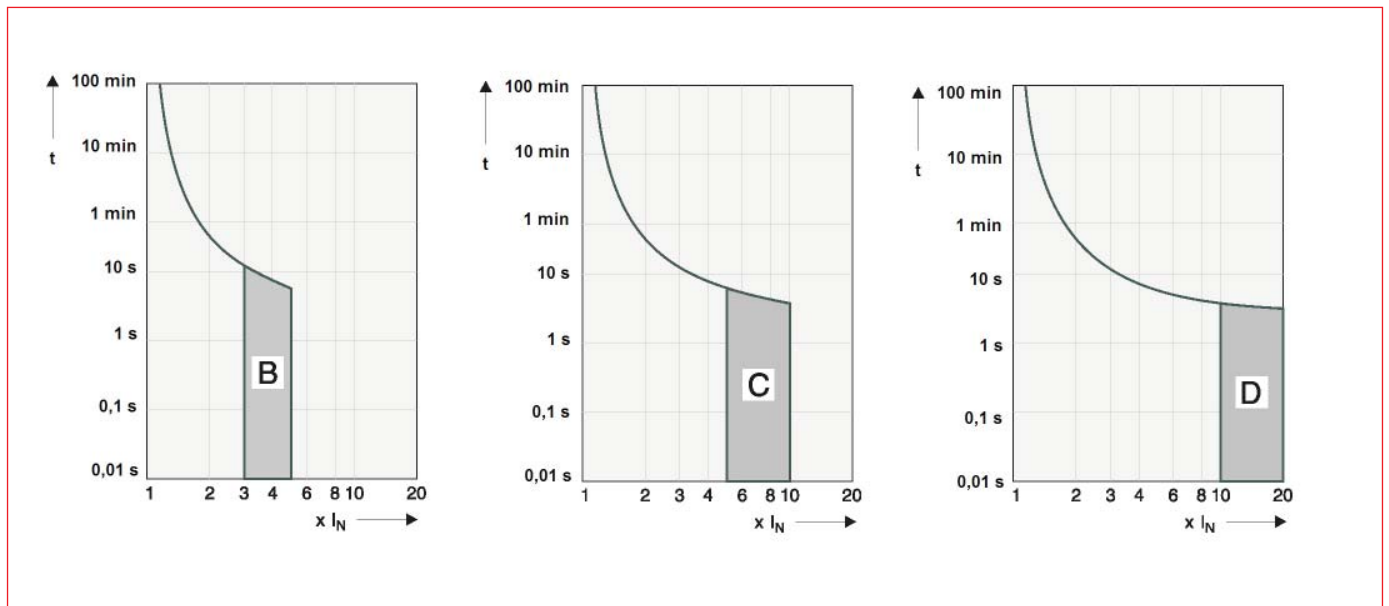
Standard:	IEC/EN 60898
Rated voltage:	230V / 400V-AC
Rated frequency:	50/60Hz
Rated current:	2 - 40A
Tripping characteristic:	B, C
Rated short-circuit capacity Icn:	4,5kA according EN 60898
Energy limiting class:	3
Rated impulse withstand voltage Uimp:	4kV
Rated tripping temperature	-5 °C up to +40 °C
Operating temperature:	-40 °C up to +75 °C
Degree of protection:	IP 20 (covered IP40)
Operating position:	in any position
Calibrated for ambient temperature:	+30 °C
Endurance:	> 8.000 operating cycles (mechanical > 20.000)
Finger and hand touch safe:	acc. to BGV A3
Terminals:	Lift terminal
Terminal cross-section:	1 - 16mm ²
Terminal width 1 MW:	17,5mm
Mounting:	on DIN rail

Dimensions

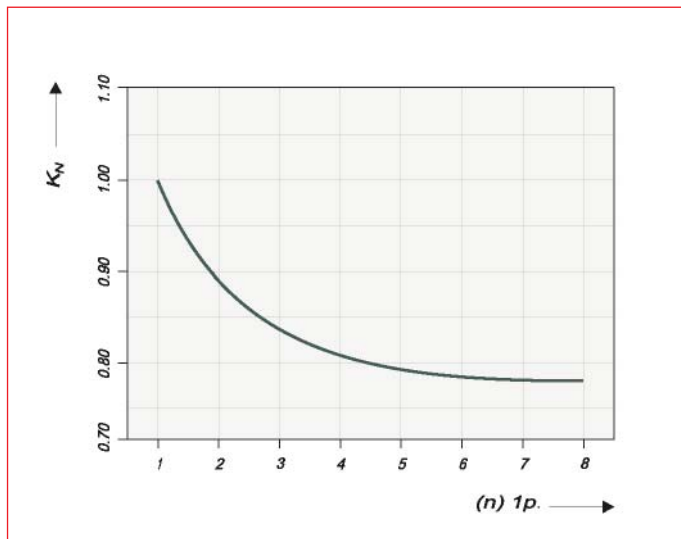


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Tripping characteristic curves according to IEC 60898 / EN 60898



Capacity with block mounting



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I_n [A]	Ambient temperature T(°C)													
	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	
0.5	0.61	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89	
1.5	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	
2	2.4	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	
3	3.7	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7	
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	
6	7.3	7.2	7.0	66.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	
13	16	16	15	15	14	14	13	13	13	12	12	12	12	
16	20	19	19	18	17	17	16	16	15	15	15	14	14	
20	24	24	23	22	22	21	20	20	19	19	19	18	18	
25	31	30	29	28	27	26	25	25	24	24	23	23	22	
32	39	38	37	36	35	33	32	32	31	30	30	29	28	
40	49	48	47	45	43	42	40	39	39	38	37	36	35	
50	61	60	58	56	54	52	50	49	48	47	47	45	44	
63	77	76	73	71	68	66	63	62	61	60	58	57	56	

$I_{MA}(f)/I_{MA}(50\text{ Hz})$ [%]	Rated frequency f [Hz]						
	16,7	50	60	100	200	300	400
	91	100	101	106	115	134	141

Numbers of possible wires with cross-section
16mm² terminal in MCB series BS

Cross-section [mm ²]	number of rigid single conductors (H07V-U)					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1,5	+	+	+	+	-	-
2,5	+	+	+	-	-	-
4	+	+	-	-	-	-
6	+	-	-	-	-	-
10	+	-	-	-	-	-

Cross-section [mm ²]	number of stranded conductors (H07V-R)					
	1	2	3	4	5	6
2,5	+	+	+	+	-	-
4	+	+	+	-	-	-
6	+	+	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-

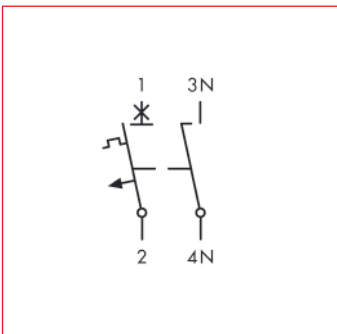
Cross-section [mm ²]	number of flexible conductors (H07V-K)					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1,5	+	+	+	+	+	+
2,5	+	+	+	+	-	-
4	+	+	+	-	-	-
6	+	+	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-

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Wiring diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Characteristic B		
6A		BS418506
16A		BS418516
Characteristic C		
2A		BS417502
4A		BS417504
6A		BS417506
10A		BS417510
16A		BS417516
20A		BS417520
25A		BS417525
32A		BS417532
40A		BS417540



Order no. blue: on stock, usually ready for delivery on the day of order