

■ Data Sheet: Miniature Circuit Breaker C16/1+N, 1MW, 6kA



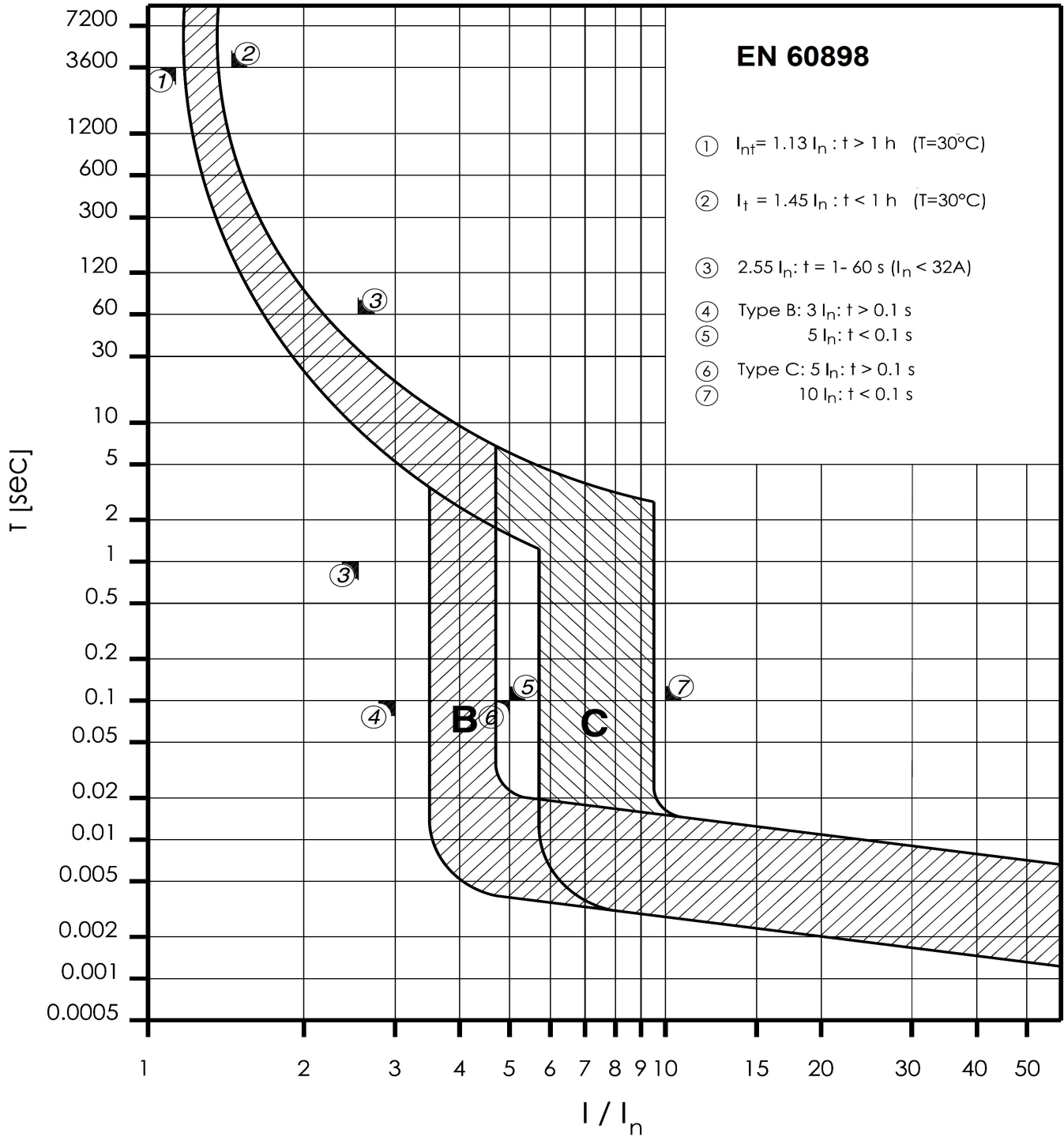
■ SCHRACK-INFO

- Single pole with switchable N-Conductor on 17.5mm (1MW)
- Glazed panel with contact position indicator

■ Technical Data

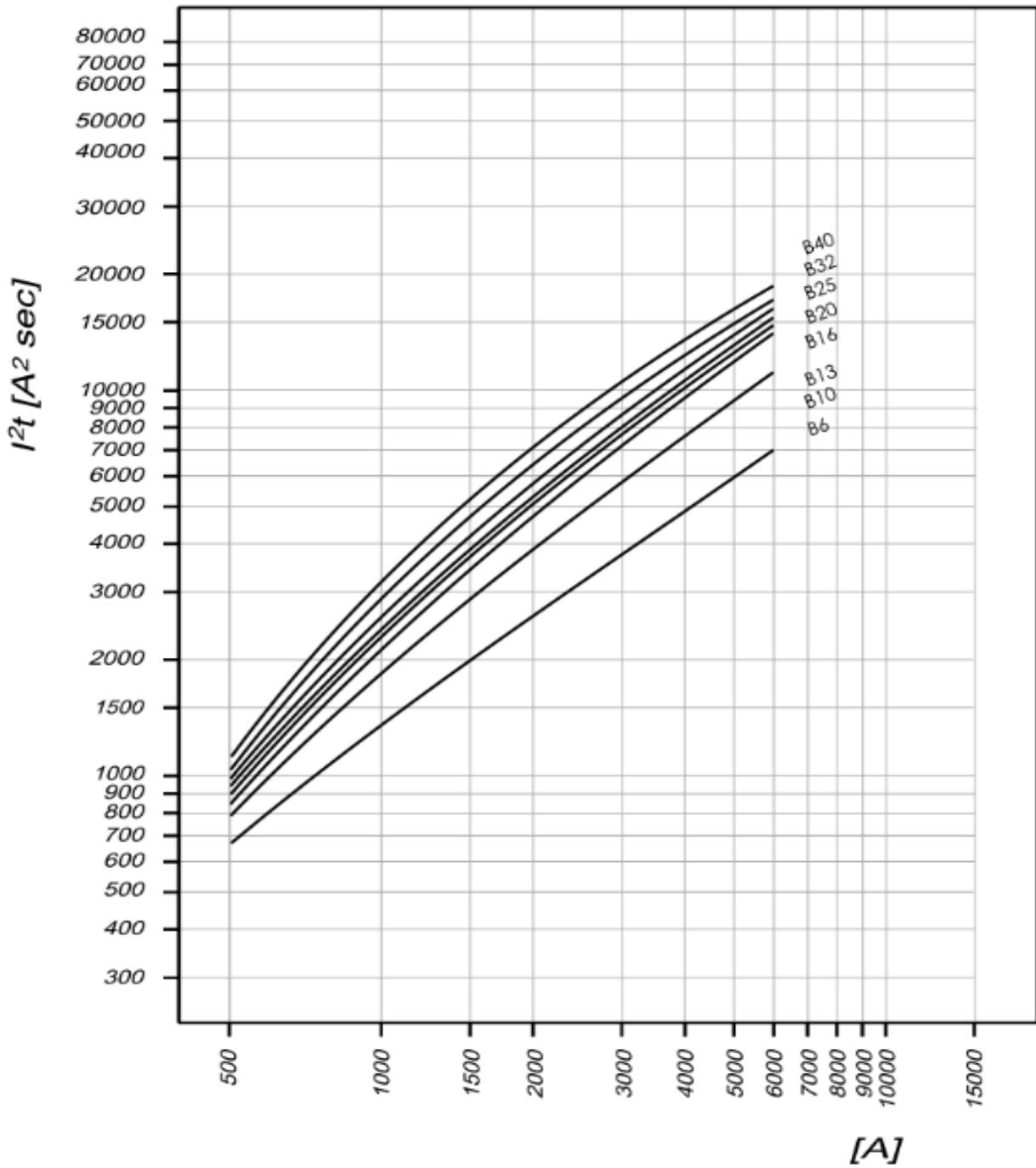
Rated voltage:	230V / 400V-AC
Frequency:	50/60Hz
Rated current:	2 - 32A
Tripping characteristic :	B, C
Rated breaking capacity I <sub>cn</sub> :	6kA acc. to EN/IEC 60898
Selectivity class:	3
Back-up fuse max.:	max. 100A gG/gL
Surge voltage protection U <sub>imp</sub> :	4000 V
Standard release:	-5 °C to +40 °C
Ambient temperature range:	-40 °C to +75 °C
Ambient temperature reference calibration:	+30°C
Degree of protection:	IP 20 (mounting IP40)
Mounting:	In any positions
Electrical endurance:	≥ 8000 operating cycles (mechanical ≥ 20.000)
Finger / Hand touch safe:	acc. VBG 4 / ÖVE EN 6
Terminals:	lift terminal
Connection cross-section:	1 - 16mm <sup>2</sup>
Terminal width 1 TE:	17,5mm
Mounting system:	Special snap-on mounting for DIN rail EN 50 022

Tripping characteristic curves BS, Characteristic B and C

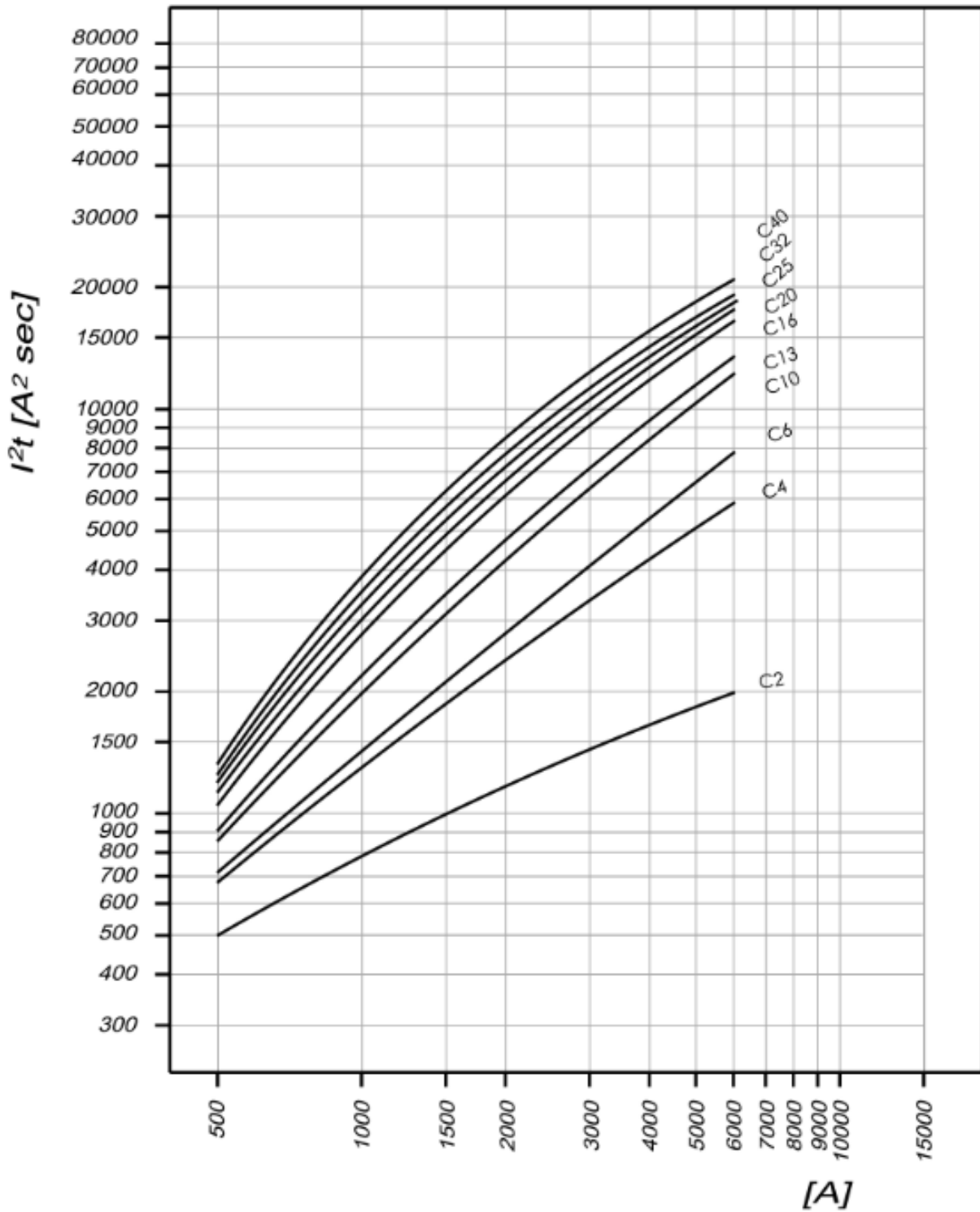


Maximum Let-Through Energy

Let-Through Energy Diagram , series BS0185xx

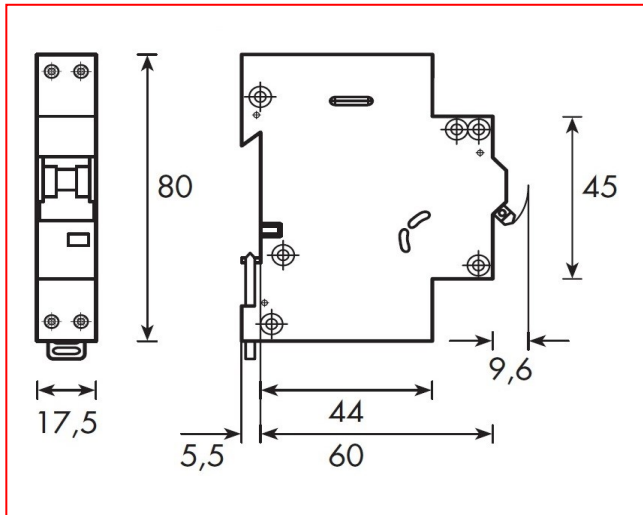


Let-Through Energy Diagram , series BS0175xxxx

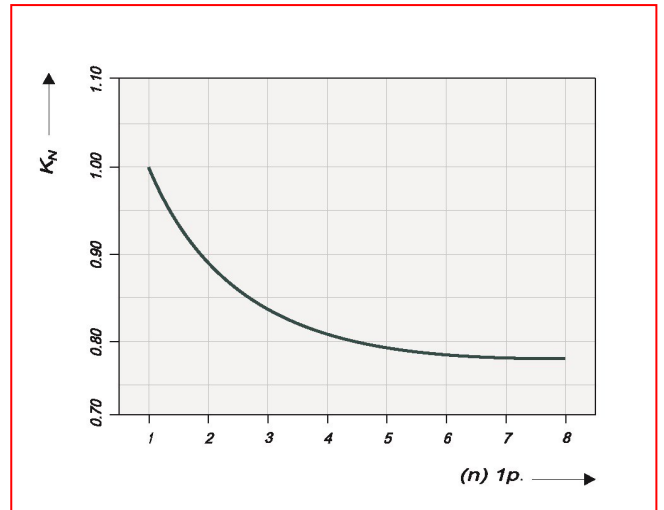


Miniature Circuit Breaker series BS, 1 +N up to 1TE

Dimension



Load Capacity of High-Current MCB



Influence of Ambient Temperature to the rated current

$I_n$ [A]	Ambient temperature T (°C)												
	-25	-20	-10	0	10	20	30	35	40	45	50	55	60
<b>2</b>	2.4	2.4	2.3	2.2	2.2	2.1	<b>2.0</b>	2.0	1.9	1.9	1.9	1.8	1.8
<b>4</b>	4.9	4.8	4.7	4.5	4.3	4.2	<b>4.0</b>	3.9	3.9	3.8	3.7	3.6	3.5
<b>6</b>	7.3	7.2	7.0	6.7	6.5	6.3	<b>6.0</b>	5.9	5.8	5.7	5.6	5.4	5.3
<b>10</b>	12	12	12	11	11	10	<b>10</b>	9.9	9.7	9.5	9.3	9.0	8.9
<b>13</b>	16	16	15	15	14	14	<b>13</b>	13	13	12	12	12	12
<b>16</b>	20	19	19	18	17	17	<b>16</b>	16	15	15	15	14	14
<b>20</b>	24	24	23	22	22	21	<b>20</b>	20	19	19	19	18	18
<b>25</b>	31	30	29	28	27	26	<b>25</b>	25	24	24	23	23	22
<b>32</b>	39	38	37	36	35	33	<b>32</b>	32	31	30	30	29	28

$I_{MA}(f)/I_{MA}(50\text{ Hz})$ [%]	Mains frequency f [Hz]						
	16 2/3	<b>50</b>	60	100	200	300	400
	91	<b>100</b>	101	106	115	134	141

■ Total Power Dissipation for I<sub>N</sub> BS

B- Characteristic

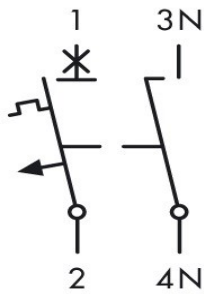
I <sub>n</sub> [A]	P [W]
6	7,4
10	2,2
13	3,4
16	2,8

C- Characteristic

I <sub>n</sub> [A]	P [W]
2	1,4
4	1,3
6	1,7
10	2,2
13	3,4
16	2,8
20	3,7
25	3,2
32	6,5

**■** Circuit Diagram

1+N



**■** Numbers of possible wires with cross-section 16mm<sup>2</sup> terminal in MCB series BS

Cross-section [mm <sup>2</sup> ]	Number of rigid single conductors (H07V-U)					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1,5	+	+	+	+	-	-
2,5	+	+	+	-	-	-
4	+	+	-	-	-	-
6	+	-	-	-	-	-
10	+	-	-	-	-	-

Cross-section [mm <sup>2</sup> ]	Number of stranded conductor (H07V-R)					
	1	2	3	4	5	6
2,5	+	+	+	+	-	-
4	+	+	+	-	-	-
6	+	+	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-

Cross-section [mm <sup>2</sup> ]	Number of flexible conductor (H07V-K)					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1,5	+	+	+	+	+	+
2,5	+	+	+	+	-	-
4	+	+	+	-	-	-
6	+	+	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-

Miniature Circuit Breaker , series BS, 6kA, 1+N up to 1TE

Description	Order NO.
<b>Characteristic B</b>	
6 A	BS018506
10 A	BS018510
13 A	BS018513
16 A	BS018516
<b>Characteristic C</b>	
2 A	BS017502
4 A	BS017504
6 A	BS017506
10 A	BS017510
13 A	BS017513
16 A	BS017516
20 A	BS017520
25 A	BS017525
32 A	BS017532