

Technical Data

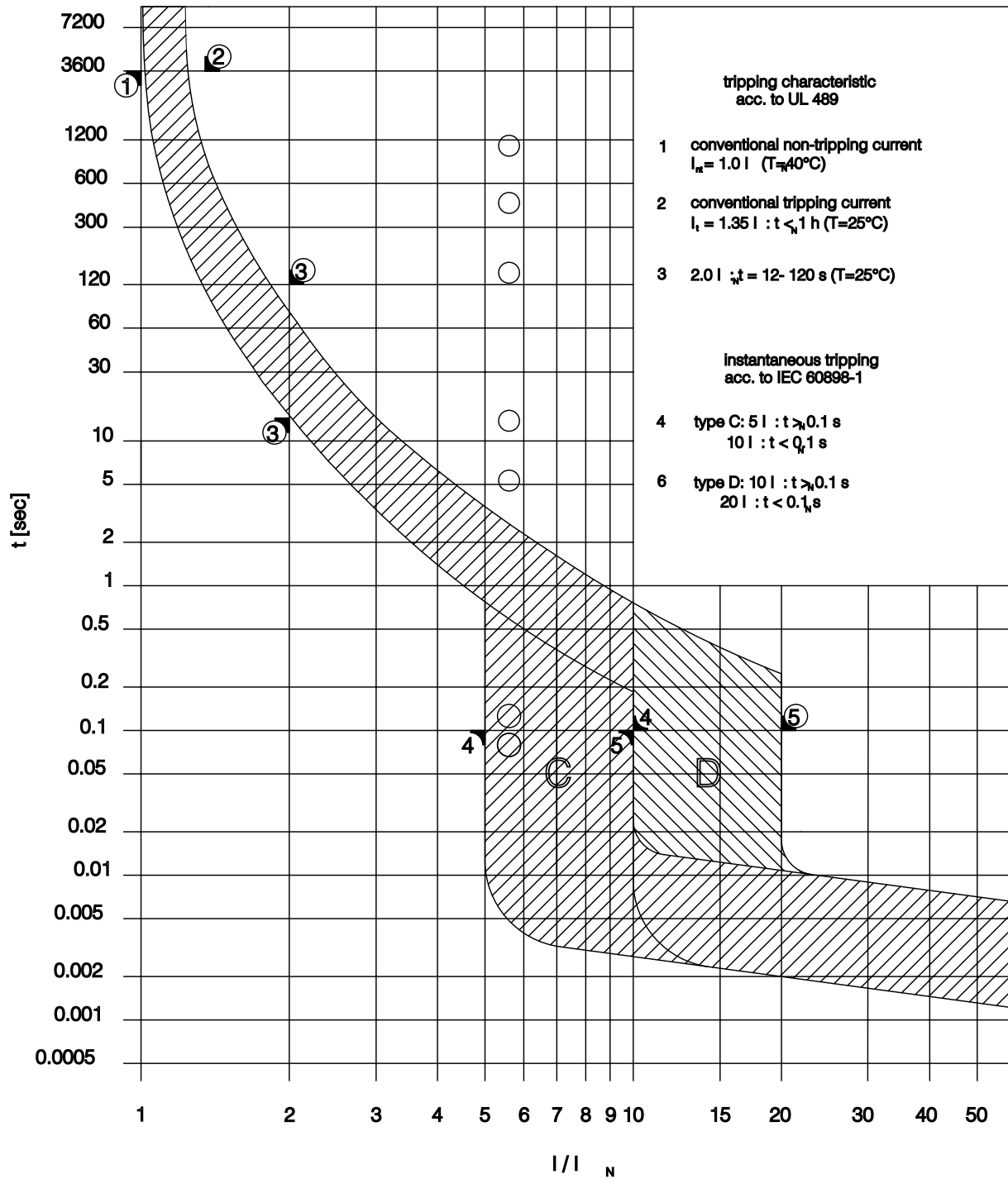
Series L9 UL-489 Circuit Breakers



L9 Time Current Characteristic

Type C and D

Ambient Temperature 40°C



Power Loss at In

C-Characteristic

	1p	2p	3p
I _n [A]	P [W]	P [W]	P [W]
0.5	1.6	3.2	4.7
1	1.1	2.2	3.4
1.5	1.3	2.6	3.9
2	1.4	2.8	4.3
3	1.2	2.4	3.6
4	1.4	2.9	4.3
5	1.9	3.7	5.6
6	1.2	2.3	3.5
7	1.4	2.8	4.3
8	1.4	2.8	4.2
10	1.8	3.6	5.3
13	2.4	4.7	7.1
15	1.9	3.8	5.6
16	2.1	4.3	6.4
20	2.9	5.8	8.7
25	3.1	6.2	9.3
30	3.0	6.0	9.0
32	3.4	6.8	10.2
35	3.7	7.4	11.0
40	4.0	8.1	12.1

D-Characteristic

	1p	2p	3p
I _n [A]	P [W]	P [W]	P [W]
0.5	1.6	3.2	4.8
1	0.8	1.5	2.3
1.5	1.0	2.1	3.1
2	1.0	2.1	3.1
3	1.2	2.4	3.6
4	1.4	2.9	4.3
5	1.5	2.9	4.4
6	1.2	2.3	3.5
7	1.4	2.8	4.3
8	1.2	2.4	3.7
10	1.5	3.0	4.5
13	2.0	4.1	6.1
15	1.5	3.1	4.6
16	1.7	3.5	5.2
20	1.8	3.7	5.5
25	2.6	5.1	7.7
30	2.7	5.4	8.1
32	3.1	6.2	9.3
35	3.6	7.6	11.3
40	3.9	7.8	11.6

Internal Resistance (Room Temperature)

C-Characteristic

I _n [A]	Z[mΩ]*	R [mΩ]
0.5	6400	6300
1	1100	1080
1.5	560	550
2	340	330
3	132	130
4	86	85
5	70	69
6	31	30
7	28	27
8	20	19.6
10	15.8	15.5
13	12.3	12.1
15	7.1	7.0
16	7.1	7.0
20	6.0	5.9
25	4.1	4.0
30	2.8	2.7
32	2.8	2.7
35	2.5	2.5
40	2.1	2.1

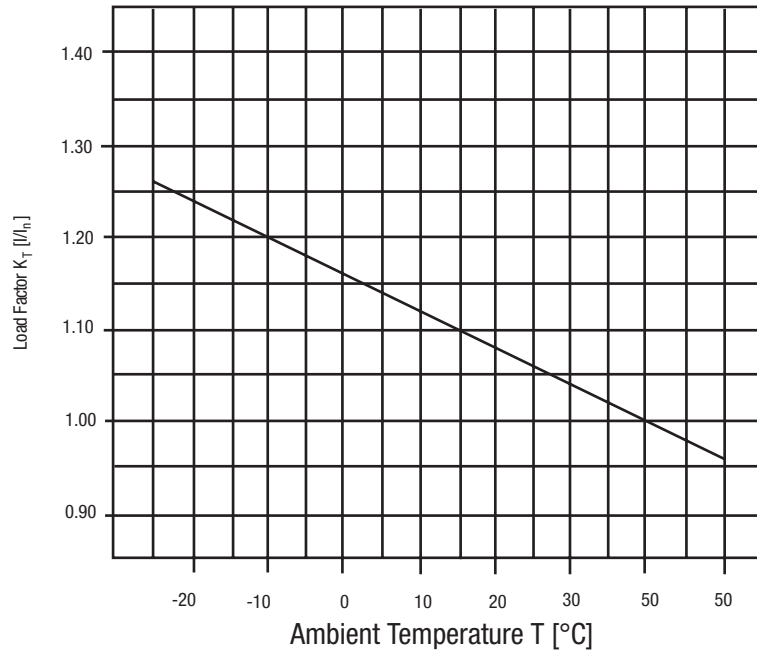
* 50Hz

D-Characteristic

I _n [A]	Z[mΩ]*	R [mΩ]
0.5	6400	6300
1	770	755
1.5	460	450
2	250	245
3	132	130
4	86	85
5	57	56
6	31	30
7	28	27
8	18	17.6
10	13.5	13.2
13	10.5	10.3
15	5.9	5.8
16	5.9	5.8
20	4.0	3.9
25	3.4	3.3
30	2.5	2.5
32	2.5	2.5
35	2.5	2.5
40	2.0	2.0

* 50Hz

Influence of Ambient Temperature (T)
on Load-Carrying Capacity

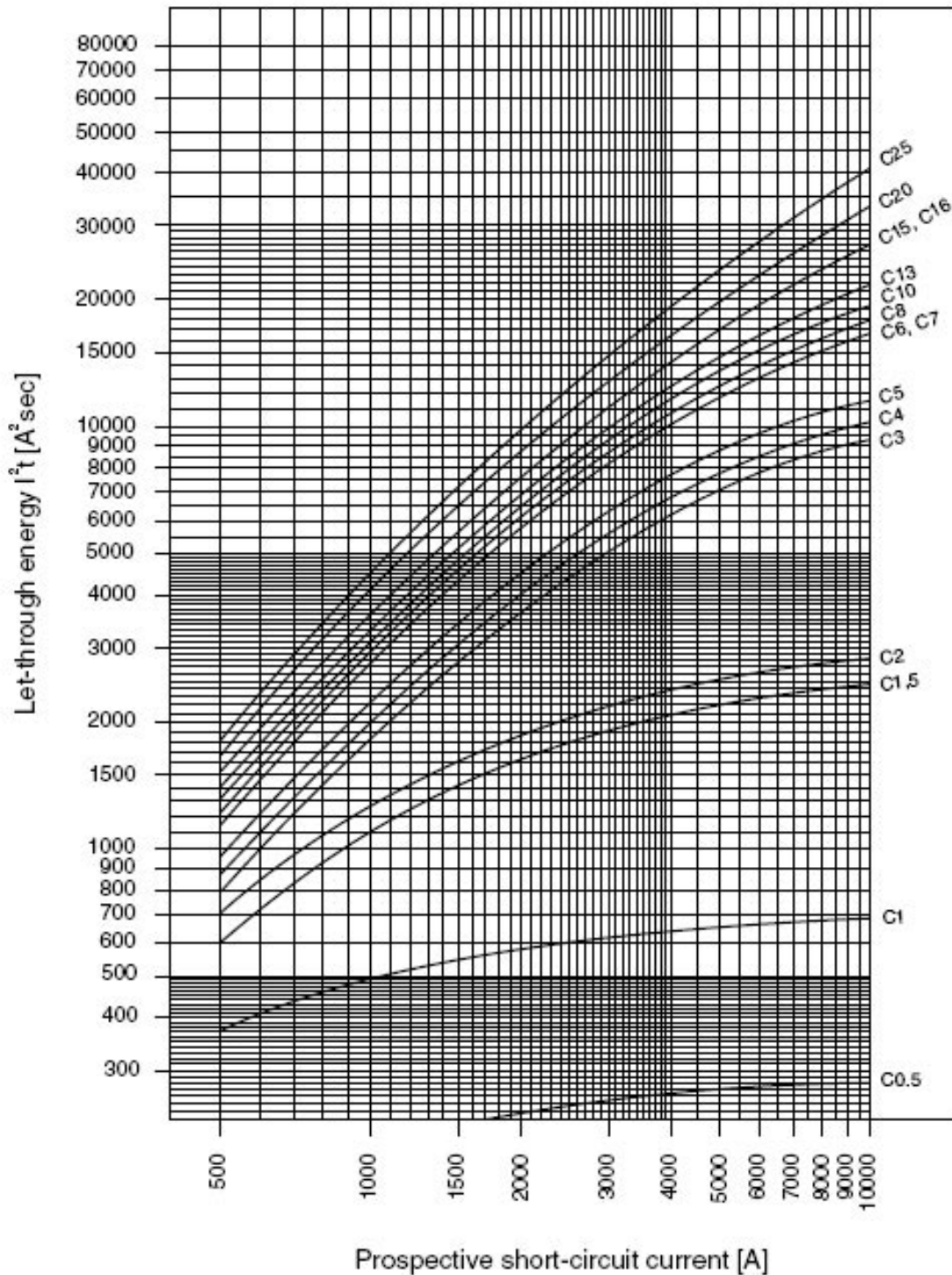


Maximum load I_n at Ambient Temperature T:

$$I_n(T) = I_n K_T(T)$$

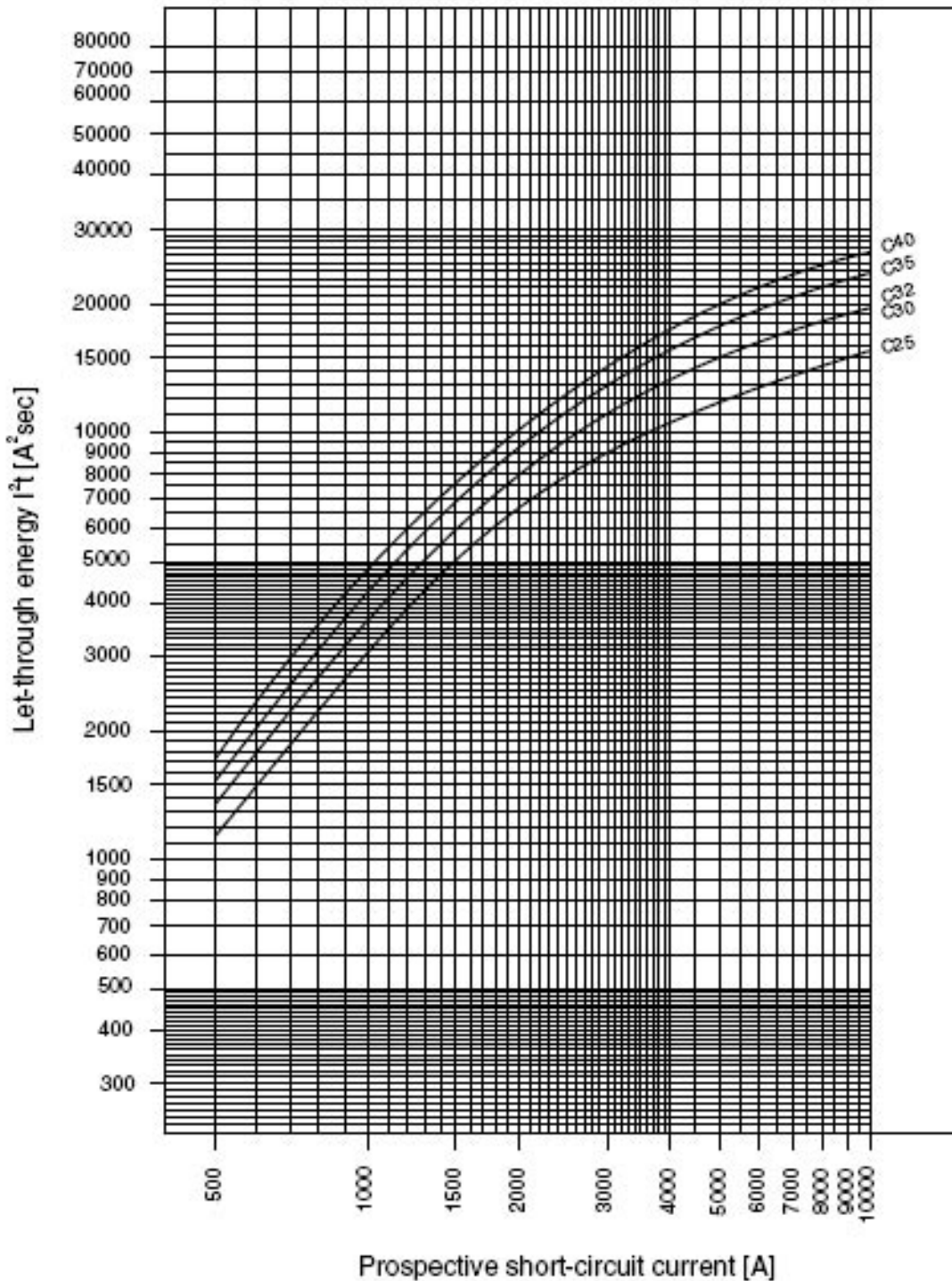
Maximum Let Through Energy

Type C (0.5-25A)
277V



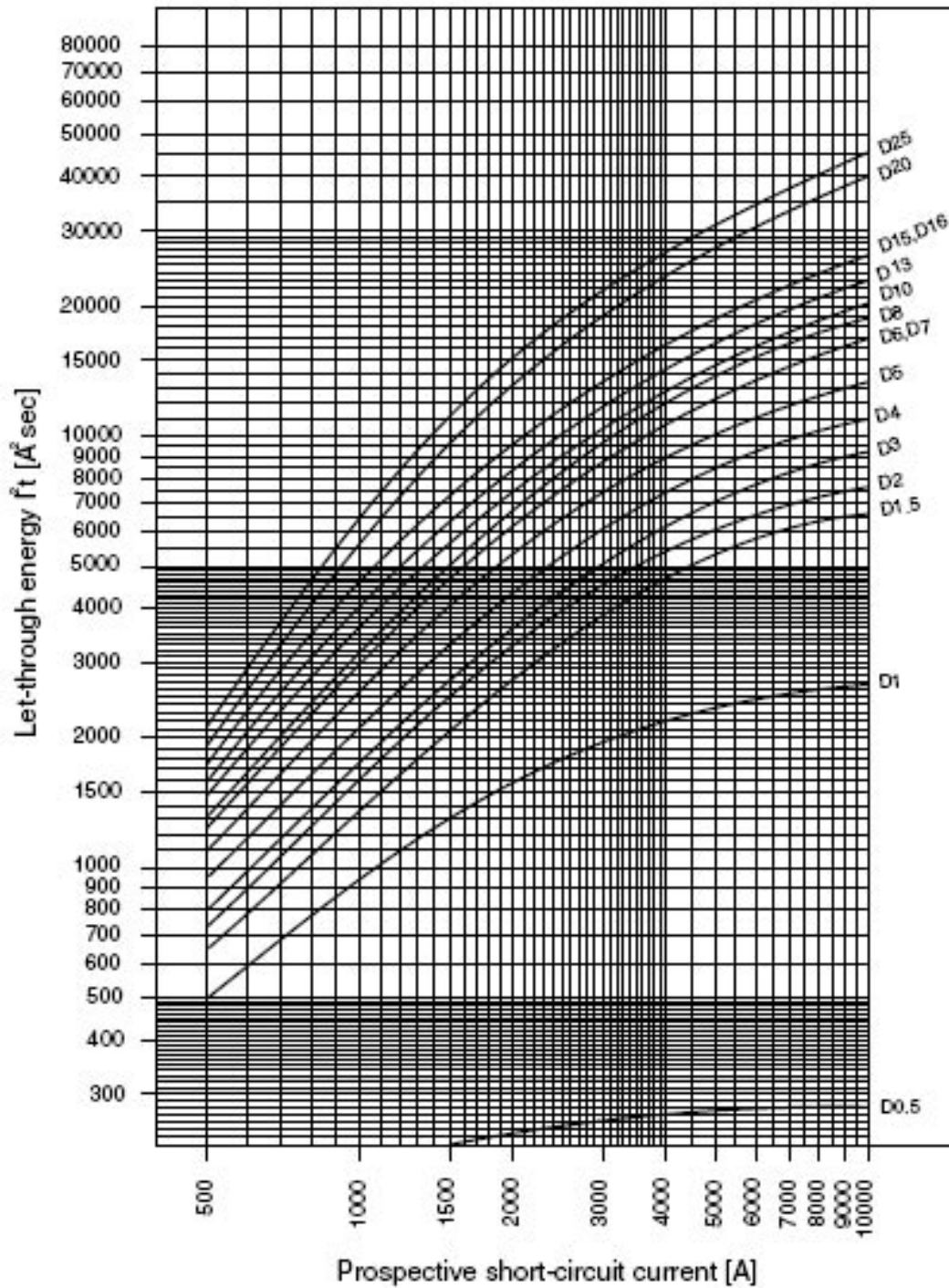
Maximum Let Through Energy

Type C (25-40A)
240V



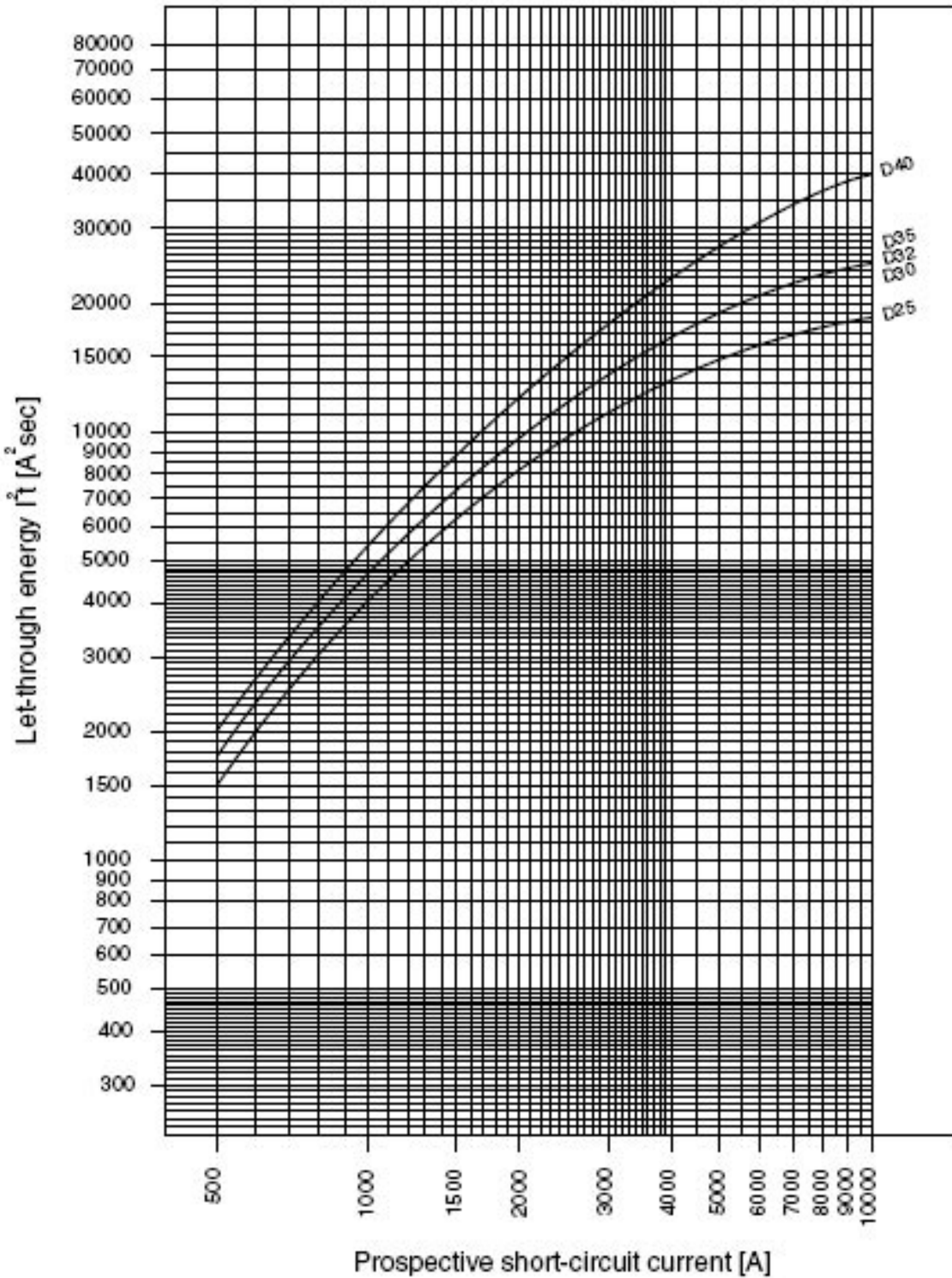
Maximum Let Through Energy

Type D (0.5-25A)
277V



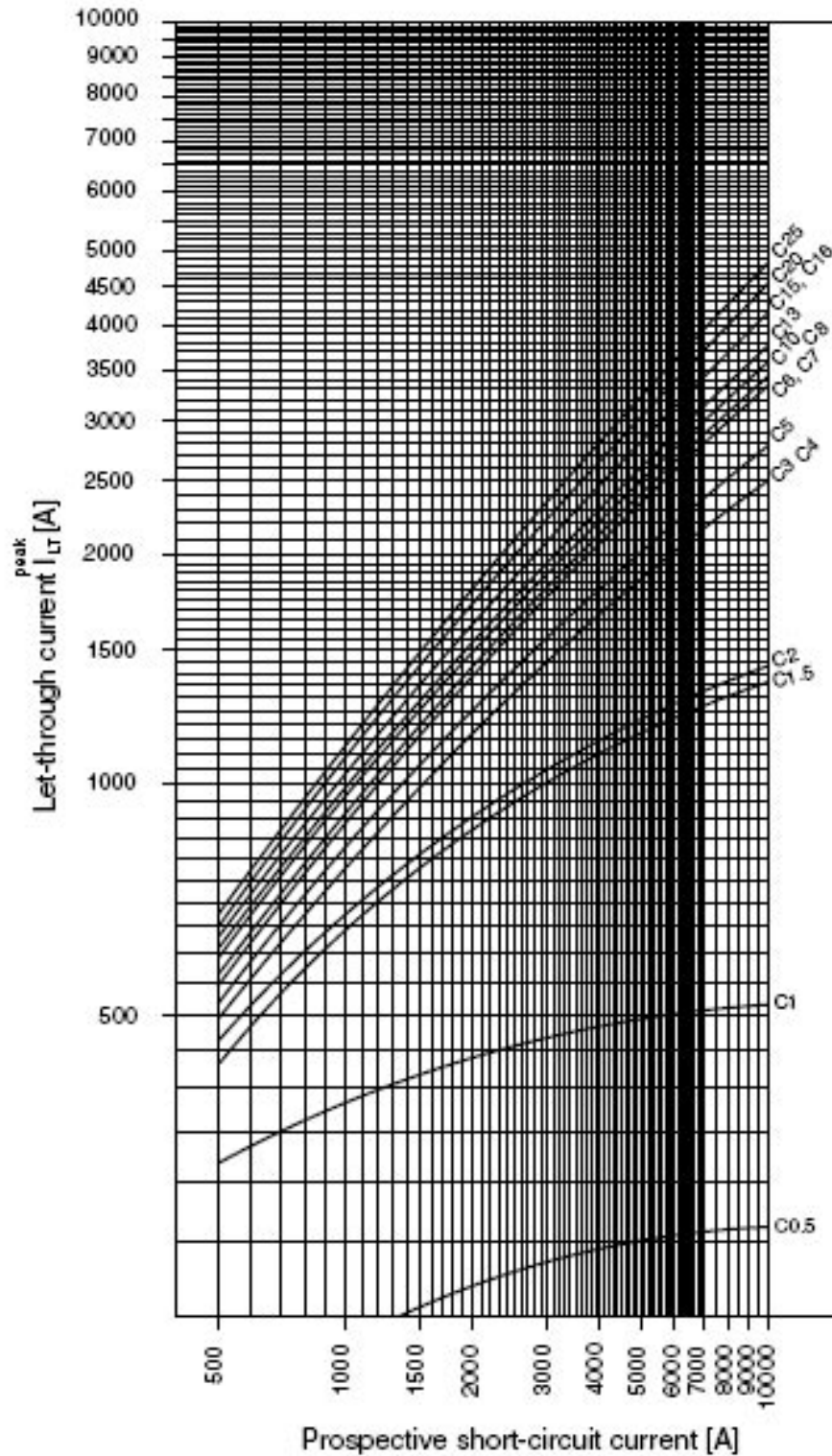
Maximum Let Through Energy

Type D (25-40A)
240V



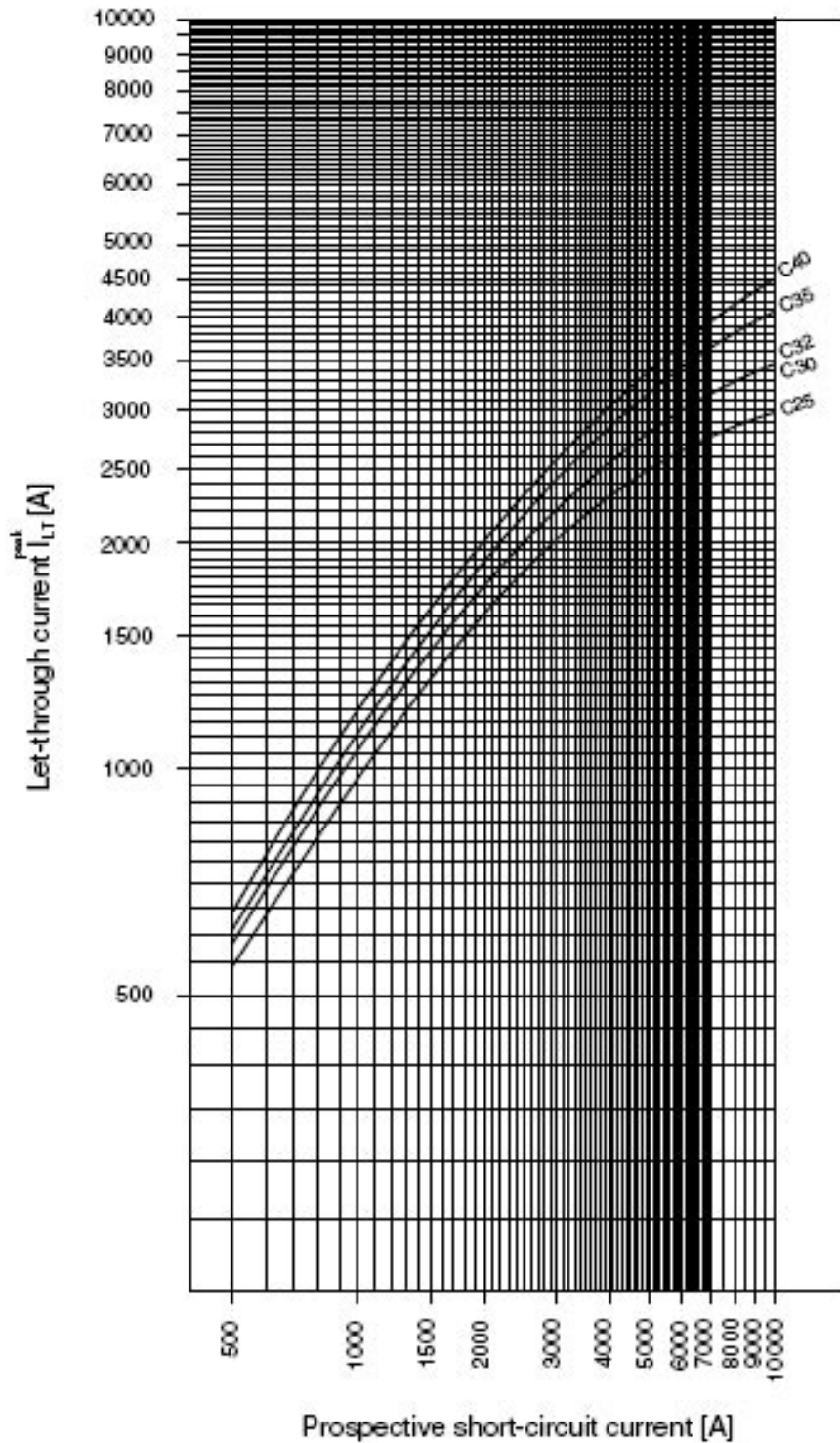
Maximum Let Through Current

Type C (0.5-25A)
277V



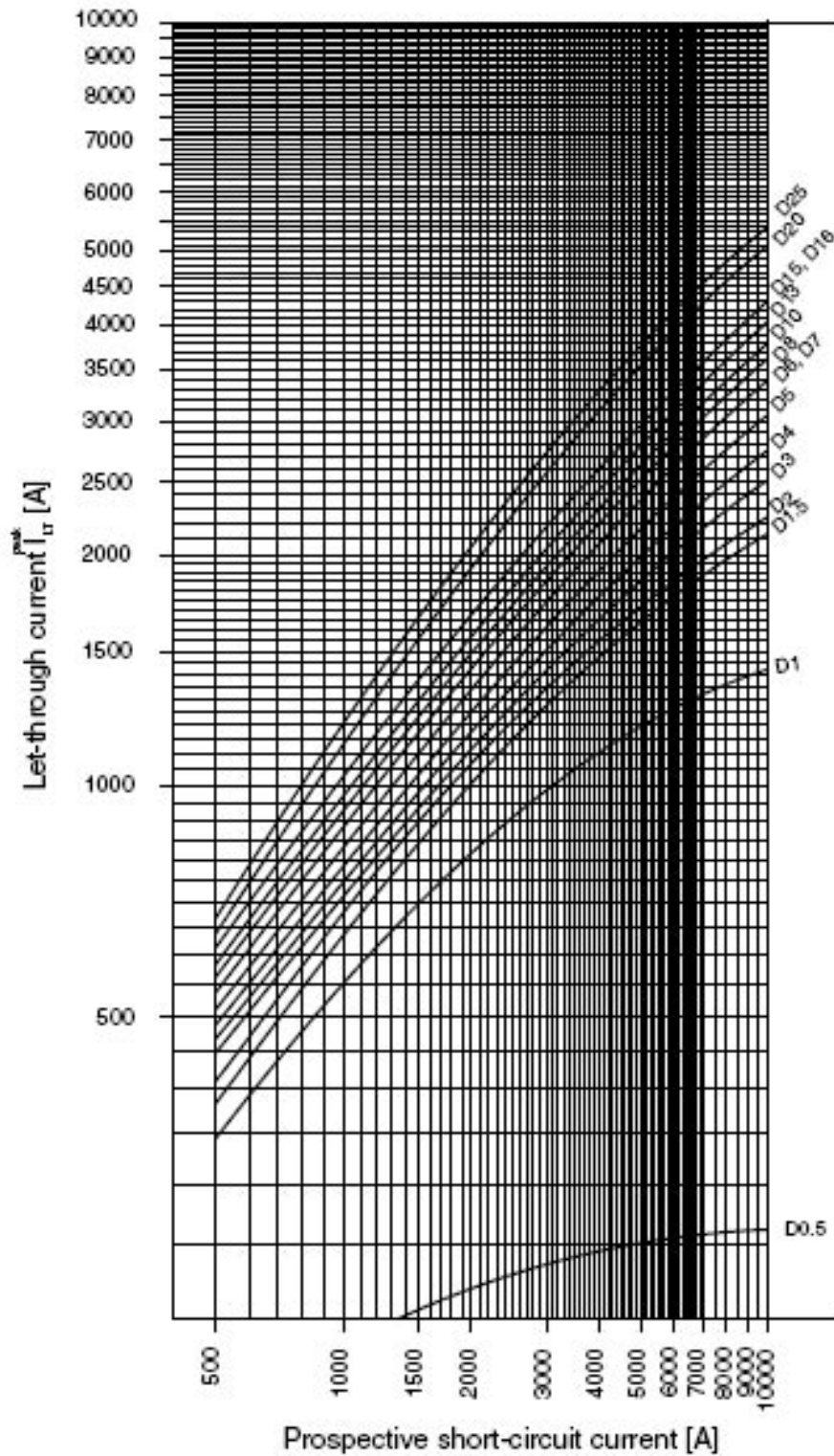
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Type C (25-40A)
240V



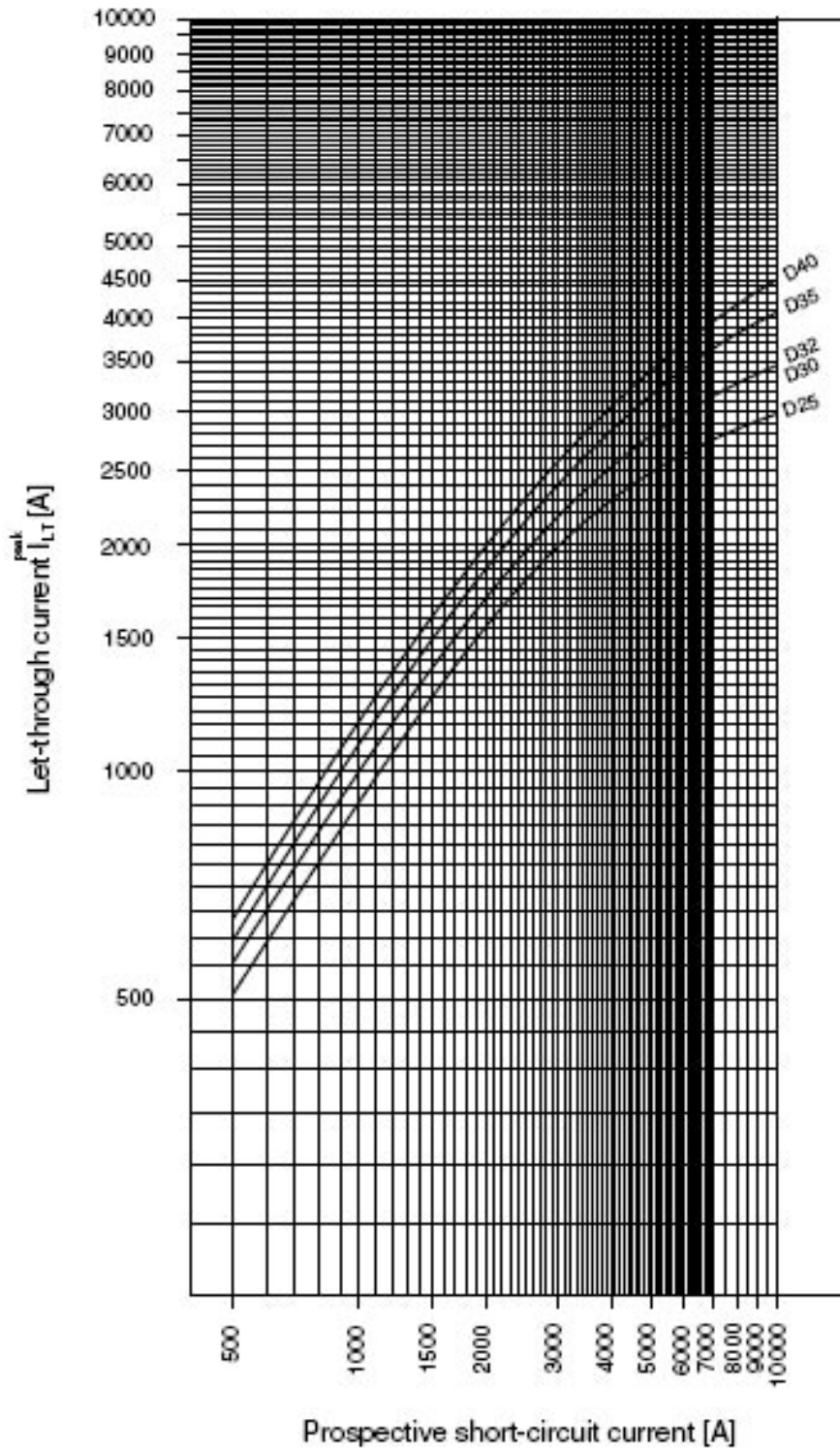
Maximum Let Through Current

Type D (0.5-25A)
277V



Maximum Let Through Current

Type D (25-40A)
240V





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