

Maximum EFLI values for selected protective devices operating voltages and temperatures

MAXIMUM VALUES OF EFLI @ 20° C									
Protective device rating (A)	LV (230 V a.c.)								
	Circuit-breakers (0.4s)			Fuses			LV (160 V a.c.)		ELV (42 V a.c.)
	Type B	Type C	Type D	0.4s	5s	0.4s	5s	0.4s	5s
2	23.640	12.608	7.565	26.214	33.351	16.881	4.05	6.24	
5	9.456	5.043	3.026	12.466	15.006	7.795	1.89	2.99	
6	7.880	4.203	2.522	9.456	12.605	6.578	1.62	2.15	
8	5.910	3.152	1.891	7.565	9.954	5.263	1.28	1.69	
10	4.728	2.522	1.513	5.254	7.565	3.659	0.90	1.29	
16	2.955	1.576	0.946	2.524	4.111	1.776	0.44	0.70	
20	2.364	1.261	0.756	1.719	2.952	1.201	0.30	0.50	
25	1.891	1.009	0.605	1.349	2.228	0.913	0.22	0.38	
32	1.478	0.788	0.473	1.053	1.801	0.740	0.18	0.30	
40	1.182	0.630	0.378	0.789	1.349	0.576	0.14	0.22	
50	0.946	0.504	0.303	0.592	1.053	0.411	0.10	0.18	
63	0.750	0.400	0.240	0.452	0.773	0.312	0.08	0.12	
80	0.591	0.315	0.189	0.312	0.559	0.214	0.05	0.10	
100	0.473	0.252	0.151	0.222	0.395	0.156	0.04	0.07	
125	0.378	0.202	0.121	0.173	0.354	0.123	0.03	0.06	
160	0.296	0.158	0.095	0.132	0.247	0.091	0.02	0.04	
200	0.236	0.126	0.076	0.107	0.189	0.074	0.02	0.03	

MAXIMUM VALUES OF EFLI @ 25° C									
Protective device rating (A)	LV (230 V a.c.)								
	Circuit-breakers (0.4s)			Fuses			LV (160 V a.c.)		ELV (42 V a.c.)
	Type B	Type C	Type D	0.4s	5s	0.4s	5s	0.4s	5s
2	24.105	12.856	7.714	26.729	34.006	17.213	4.13	6.36	
5	9.642	5.142	3.085	12.711	15.301	7.948	1.93	3.05	
6	8.035	4.285	2.571	9.642	12.853	6.707	1.65	2.20	
8	6.026	3.214	1.928	7.714	10.149	5.366	1.31	1.72	
10	4.821	2.571	1.543	5.358	7.714	3.731	0.91	1.32	
16	3.013	1.607	0.964	2.574	4.192	1.811	0.44	0.71	
20	2.410	1.286	0.771	1.752	3.010	1.224	0.30	0.51	
25	1.928	1.028	0.617	1.375	2.272	0.931	0.23	0.39	
32	1.507	0.803	0.482	1.073	1.836	0.755	0.18	0.31	
40	1.205	0.643	0.386	0.805	1.375	0.587	0.14	0.23	
50	0.964	0.514	0.309	0.604	1.073	0.419	0.10	0.18	
63	0.765	0.408	0.245	0.461	0.788	0.319	0.08	0.13	
80	0.603	0.321	0.193	0.319	0.570	0.218	0.05	0.10	
100	0.482	0.257	0.154	0.226	0.402	0.159	0.04	0.07	
125	0.386	0.206	0.123	0.176	0.361	0.126	0.03	0.06	
160	0.301	0.161	0.096	0.134	0.252	0.093	0.02	0.04	
200	0.241	0.129	0.077	0.109	0.193	0.075	0.02	0.03	

MAXIMUM VALUES OF EFLI at @ 45° C									
Protective device rating (A)	LV (230 V a.c.)								
	Circuit-breakers (0.4s)			Fuses			LV (160 V a.c.)		ELV (42 V a.c.)
	Type B	Type C	Type D	0.4s	5s	0.4s	5s	0.4s	5s
2	25.963	13.847	8.308	28.789	36.628	18.540	4.45	6.85	
5	10.385	5.539	3.323	13.690	16.481	8.561	2.08	3.29	
6	8.654	4.616	2.769	10.385	13.844	7.224	1.78	2.37	
8	6.491	3.462	2.077	8.308	10.931	5.780	1.41	1.85	
10	5.193	2.769	1.662	5.771	8.308	4.019	0.98	1.42	
16	3.245	1.731	1.039	2.772	4.515	1.951	0.48	0.77	
20	2.596	1.385	0.831	1.887	3.242	1.318	0.33	0.55	
25	2.077	1.108	0.665	1.481	2.447	1.002	0.24	0.42	
32	1.623	0.865	0.519	1.156	1.978	0.813	0.20	0.33	
40	1.298	0.692	0.415	0.867	1.481	0.632	0.15	0.24	
50	1.039	0.554	0.332	0.650	1.156	0.452	0.11	0.20	
63	0.824	0.440	0.264	0.497	0.849	0.343	0.08	0.14	
80	0.649	0.346	0.208	0.343	0.614	0.235	0.06	0.11	
100	0.519	0.277	0.166	0.244	0.433	0.172	0.04	0.08	
125	0.415	0.222	0.133	0.190	0.388	0.135	0.03	0.06	
160	0.325	0.173	0.104	0.144	0.271	0.100	0.02	0.05	
200	0.260	0.138	0.083	0.117	0.208	0.081	0.02	0.03	

MAXIMUM VALUES OF EFLI @ 75° C									
Protective device rating (A)	LV (230 V a.c.)								
	Circuit-breakers (0.4s)			Fuses			LV (160 V a.c.)		ELV (42 V a.c.)
	Type B	Type C	Type D	0.4s	5s	0.4s	5s	0.4s	5s
2	28.750	15.333	9.200	31.880	40.560	20.530	4.93	7.59	
5	11.500	6.133	3.680	15.160	18.250	9.480	2.30	3.64	
6	9.583	5.111	3.067	11.500	15.330	8.000	1.97	2.62	
8	7.188	3.833	2.300	9.200	12.105	6.400	1.56	2.05	
10	5.750	3.067	1.840	6.390	9.200	4.450	1.09	1.57	
16	3.594	1.917	1.150	3.070	5.000	2.160	0.53	0.85	
20	2.875	1.533	0.920	2.090	3.590	1.460	0.36	0.61	
25	2.300	1.227	0.736	1.640	2.710	1.110	0.27	0.46	
32	1.797	0.958	0.575	1.280	2.190	0.900	0.22	0.37	
40	1.438	0.767	0.460	0.960	1.640	0.700	0.17	0.27	
50	1.150	0.613	0.368	0.720	1.280	0.500	0.12	0.22	
63	0.913	0.487	0.292	0.550	0.940	0.380	0.09	0.15	
80	0.719	0.383	0.230	0.380	0.680	0.260	0.07	0.12	
100	0.575	0.307	0.184	0.270	0.480	0.190	0.05	0.09	
125	0.460	0.245	0.147	0.210	0.430	0.150	0.04	0.07	
160	0.359	0.192	0.115	0.160	0.300	0.111	0.03	0.05	
200	0.288	0.153	0.092	0.130	0.230	0.090	0.02	0.03	

DC Conductor resistances for insulated cables for fixed installations.

Solid, stranded conductors; also refer to AS/NZS 1125.

Nominal conductor area mm ²	Conductor type	Single Core or Multicore Maximum DC resistance at 20°C/Ω/km		
		Copper Plain	Copper Tinned	Aluminium
0.5	Solid	36.0	36.7	
1.0*	Solid	18.1	18.2	
1.0	Stranded	21.2	21.6	
1.5*	Solid	12.1	12.2	
1.5	Stranded	13.6	13.8	
2.5*	Solid	7.41	7.56	
2.5	Stranded	7.41	7.56	
4	Stranded	4.61	4.70	
6	Stranded	3.08	3.11	
10	Stranded	1.83	1.84	
16	Stranded	1.15	1.16	1.91
25	Stranded	0.727	0.734	1.20
35	Stranded	0.524	0.529	0.868

Touch Potential	Action
0 to <20 VAC	No Action
≥20 <25 VAC	Notify Supervisor & Backlog issue to investigate
≥25 VAC	Not safe IAW AS3000. Notify Supervisor & repair or isolate
Note:	Site environments are considered wet for the purpose of this requirement