

# 2

## Time current data for circuit breakers 25kA

Earth fault loop impedance (Zs) for final circuits supplying fixed equipment, disconnection occurs within 5 seconds  
 For final circuits supplying socket outlets, disconnection occurs within 0.4 of a second. Voltage Vac = 230  
 Values of I<sup>2</sup>t Let through Energy x 1000

Item	Catalogue Number	Magnetic Trip Setting	Thermal Trip Setting	Disconnection Time in seconds ( S )																	
				0.01	0.4	0.6	1	2	3	5	10	20	40	60	100	200	500	1000	2000	5000	10000
1	SFA1016	Fixed	16	400	400	400	272	172	130	98	68	48	36	32	28	24	21.4	20.3	19.8	19.5	19
2	SFA1020		20	400	400	400	400	220	169	122	84	60	45	40	35	30	27	25.4	24.8	24	24
3	SFA1032		32	480	480	480	480	330	270	205	138	96	72	64	56	48	43	41	40	39	38
4	SFA1040		40	600	600	600	600	412	338	256	173	120	90	80	70	60	54	51	50	49	48
5	SFA1050		50	600	600	600	600	485	422	320	216	150	113	100	88	75	67	64	62	61	60
6	SFA1063		63	1000	1000	1000	1000	670	532	403	272	189	142	126	110	95	84	80	78	77	76
7	SFA1080		80	1200	1200	1200	1200	830	675	512	346	240	180	160	140	120	107	102	99	98	96
8	SFA1100		100	1200	1200	1200	1200	1000	844	640	432	300	225	200	175	150	134	127	124	122	120

### Square D - TIME CURRENT DATA for Circuit Breakers 36kA

Item	Catalogue Number	Magnetic Trip Setting	Thermal Trip Setting	Disconnection Time in seconds ( S )																		
				0.02	1	2	3	5	10	15	20	30	40	60	100	200	500	1000	2000	5000	10000	
1	SLA3250	HIGH	250	2500	2500	2500	2500	2500	2500	2500	2500	1850	1500	1250	1000	750	565	438	375	333	308	300
			LOW	250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1000	750	565	438	375	333	308
2	SLA3300	HIGH	300	3000	3000	3000	3000	3000	3000	3000	3000	2220	1800	1500	1200	900	678	525	450	400	369	360
			LOW	300	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	900	678	525	450	400	369	360
3	SLA3350	HIGH	350	3500	3500	3500	3500	3500	3500	3500	3500	2590	2100	1750	1400	1050	791	613	525	467	431	420
			LOW	350	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1400	1050	791	613	525	467	431	420
4	SLA3400	HIGH	400	4000	4000	4000	4000	4000	4000	4000	4000	2960	2400	2000	1600	1200	904	700	600	533	492	480
			LOW	400	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1600	1200	904	700	600	533	492

### Square D - TIME CURRENT DATA for Circuit Breakers 50, 36kA

Item	Catalogue Number	Magnetic Trip Setting	Thermal Trip Setting	Disconnection Time in seconds ( S )																	
				0.02	1	4	5	6	10	15	20	30	40	60	100	200	500	1000	2000	5000	10000
1	SMA3300	HIGH	300	3000	3000	3000	3000	3000	2400	2040	1800	1530	1350	1140	900	700	525	450	400	369	360
			SMH3300	LOW	300	1500	1500	1500	1500	1500	1500	1500	1500	1500	1350	1140	900	700	525	450	400
2	SMA3350	HIGH	350	3500	3500	3500	3500	3500	2800	2380	2100	1785	1575	1330	1050	817	613	525	467	431	420
			SMH3350	LOW	350	1750	1750	1750	1750	1750	1750	1750	1750	1575	1330	1050	817	613	525	467	431
3	SMA3400	HIGH	400	4000	4000	4000	4000	4000	3200	2720	2400	2040	1800	1520	1200	933	700	600	533	492	480
			SMH3400	LOW	400	2000	2000	2000	2000	2000	2000	2000	2000	2000	1800	1520	1200	933	700	600	533
4	SMA3450	HIGH	450	4500	4500	4500	4500	4500	3600	3060	2700	2295	2025	1710	1350	1050	788	675	600	554	540
			SMH3450	LOW	450	2250	2250	2250	2250	2250	2250	2250	2250	2025	1710	1350	1050	788	675	600	554
5	SMA3500	HIGH	500	5000	5000	5000	5000	5000	4000	3400	3000	2550	2250	1900	1500	1167	875	750	667	615	600
			SMH3500	LOW	500	2500	2500	2500	2500	2500	2500	2500	2500	2250	1900	1500	1167	875	750	667	615
6	SMA3630	HIGH	630	6300	6300	6300	6300	6300	5040	4284	3780	3213	2835	2394	1890	1470	1103	945	840	775	756
			SMH3630	LOW	630	3150	3150	3150	3150	3150	3150	3150	3150	2835	2394	1890	1470	1103	945	840	775
8	SMA3700	HIGH	700	7000	7000	7000	7000	7000	5600	4760	4200	3570	3150	2660	2100	1633	1225	1050	933	861	840
			SMH3700	LOW	700	3500	3500	3500	3500	3500	3500	3500	3500	3150	2660	2100	1633	1225	1050	933	861
9	SMA3800	HIGH	800	8000	8000	8000	8000	8000	6400	5440	4800	4080	3600	3040	2400	1866	1400	1200	1066	984	960
			SMH3800	LOW	800	4000	4000	4000	4000	4000	4000	4000	4000	3600	3040	2400	1866	1400	1200	1066	984