ERMCO SINGLE PHASE BREAKERS SPECIFICATIONS

BREAKER APPLICATION REFERENCE (KVA)		BIM. G	MAG TRIP	BREAK. TYPE	RATED CURRENT AMP	MAX. CURRENT AMP	AVER. WATT LOSS. 85degC	Amp RMS INTERRUPT. RATINGS 240v - 5 Shots	STANDARD TEMPERATURES LIGHT NORM.	LIGHT EMER.	BREAKER NORMAL	BREAKER EMERG.	BREAKER CONSTANTS TO CALCULATE BIMETAL ULTIMATE RISE ULTIMATE RISE = H*(G/Go)^C1*(I/Io)^C2				
120/240	240/480												H	Go	C1	Io	C2
5	10	500	NO	T1	21	22	5	4,000	120	135	145	160	28	30	0.845	200	1.692
7.5	15	250	NO	T1	31	32.5	7	4,000	120	135	145	160	28	30	0.845	200	1.692
10	---	150	NO	T1	42	44	6.5	4,000	125	140	150	165	28	30	0.845	200	1.692
---	25	150	NO	T1	52	55	11	7,000	140	155	165	180	28	30	0.845	200	1.692
15	---	70	NO	T1	63	66	8.5	7,000	128	143	153	168	28	30	0.845	200	1.692
---	37.5	50	NO	T1	78	82	14	7,000	135	150	160	175	28	30	0.845	200	1.692
25	50	30	NO	T1	104	109	17.5	7,000	135	150	160	175	28	30	0.845	200	1.692
25	50	30	YES	T12	104	109	17.5	11,000	135	150	160	175	28	30	0.845	200	1.692
37.5	75	30	YES	T12	156	164	23	11,000	135	150	160	175	8.73	20	0.845	200	1.692
50	100	20	YES	T12	208	218	40	11,000	135	150	160	175	8.73	20	0.845	200	1.692
75	---	30	YES	T13	313	329	35	28,000	120	120	165	180	216	20	0.750	2,860	1.500
---	167	30	YES	T13	348	365	89	28,000	125	125	165	185	216	20	0.750	2,860	1.500
100	---	30	YES	T13	417	438	65	28,000	132	132	172	192	216	20	0.750	2,860	1.500
167	333	30	YES	T14	694	729	115	30,000	128	128	170	190	246	30	0.750	4,350	1.500

ERMCO THREE PHASE BREAKERS SPECIFICATIONS

BREAKER APPLIC. REFERENCE BREAKER		BIM. G	MAG TRIP	BREAK. TYPE	RATED CURRENT AMP	MAX. CURRENT AMP	AVER. WATT LOSS. 85degC	Amp RMS INTERRUPT. RATINGS 1 Shots	STANDARD TEMPERATURES LIGHT NORM.	LIGHT EMER.	BREAKER NORMAL	BREAKER EMERG.	BREAKER CONSTANTS TO CALCULATE BIMETAL ULTIMATE RISE ULTIMATE RISE = H*(G/Go)^C1*(I/Io)^C2					TYPICAL APPLICATION FOR LV = 208v	RESISTANCE PER POLE mohm
ID	RANGE												H	Go	C1	Io	C2		
G3	49-87	500	NO	T15	83	87	32	20,000	130	130	160	175	25.6	50	0.845	400	1.692	30kVA	1.55
G4	88-115	250	NO	T15	90	115	36	20,000	130	130	160	175	25.6	50	0.845	400	1.692		1.48
G5	116-171	125	NO	T15	125	171	43	20,000	130	130	160	175	25.6	50	0.845	400	1.692	45kVA	0.92
G6	172-243	70	YES	T15	208	243	63	20,000	130	130	160	175	25.6	50	0.845	400	1.692	75kVA	0.49
G7	244-386	30	YES	T15	312	386	110	20,000	120	120	160	180	216	20	0.750	2,860	1.500	112.5kVA	0.38
G8	387-445	30	YES	T15	416	445	198	20,000	132	132	172	192	216	20	0.750	2,860	1.500	150kVA	0.38
G7T	446-600	30	YES	T15	760	600	280	20,000	120	120	160	180	216	20	0.750	2,860	1.500		0.65
G8T	601-760	30	YES	T15	760	760	280	20,000	132	132	172	192	216	20	0.750	2,860	1.500	225kVA	0.65
G7T-2	761-940	30	YES	T15	760	940	280	20,000	120	120	160	180	216	20	0.750	2,860	1.500	300kVA	0.65
G8T-2	941-1400	30	YES	T15	760	1500	280	20,000	132	132	172	192	216	20	0.750	2,860	1.500	400/500kVA	0.65

KVA	I 208v	R/pole mohm	Losses Calc.	Losses Finn
15	41.6			
30	83.3	1.55	32	
45	124.9	0.92	43	
75	208.2	0.49	64	
112.5	312.3	0.38	111	
150	416.4	0.38	198	
225	624.5	0.38	111	417.351
300	832.7	0.38	198	741.957
400	1110.3	0.38	351	1319.03
500	1387.9	0.38	549	2060.99