

INTERRUTTORI MAGNETOTERMICI ETIMAT P6 (NUOVA GENERAZIONE)

Caratteristiche generali:

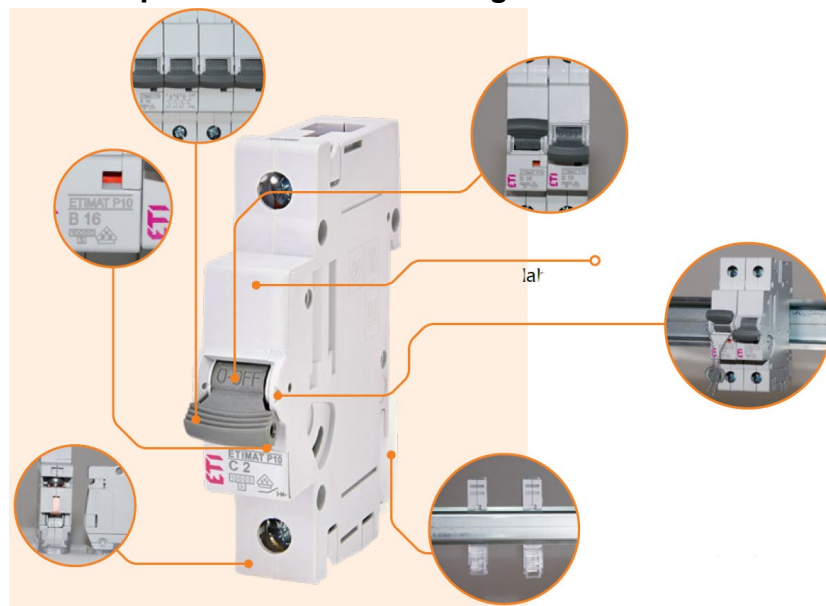
- Interruttori magnetotermici modulari;
- Potere di interruzione: 6kA;
- Correnti nominali: da 0,5A a 63A;
- Tensione nominale AC: 230V / 400V;
- Tensione nominale DC: max 60V;
- Curve di intervento: B, C e D;
- Frequenza nominale: 50/60 Hz;
- Sez. cavi collegamento: 1 - 25 mm²;
- Coppia di serraggio: max 2,5 Nm;
- Durata elettrica: 20.000 operazioni;
- Durata meccanica: 20.000 operazioni;
- Norme di riferimento: IEC EN 60898-1 / IEC 60947-2;

MINIATURE CIRCUIT BREAKERS ETIMAT P6 (NEW GENERATION)

General characteristics:

- *Miniature circuit breakers (MCB);*
- *Breaking capacity: 6kA;*
- *Rated currents: from 0,5A to 63A;*
- *AC rated voltage: 230V / 400V;*
- *DC rated voltage: max 60V;*
- *Tripping characteristics: B, C and D;*
- *Rated frequency: 50/60 Hz;*
- *Cable cross section: 1 - 25 mm²;*
- *Torque force: max 2,5 Nm;*
- *Electrical endurance: 20.000 ops;*
- *Mechanical endurance: 20.000 ops;*
- *Reference standards: IEC EN 60898-1 / IEC 60947-2;*

Foto dei prodotti / Products images



Pagine totali del documento: 13

Document total pages: 13

Ultimo aggiornamento: 21 dicembre 2023

Last updated: 21st December 2023

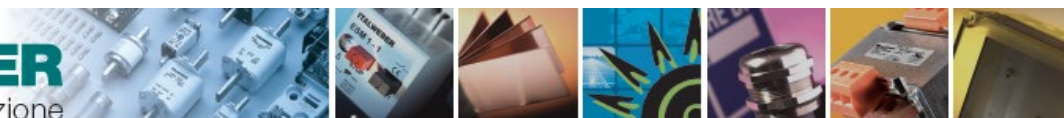


Versione unipolare

Single pole version

Codice / Code			In (A)	Peso / Weight (kg)	Conf Pack
Curva B / B curve	Curva C / C curve	Curva D / D curve			
-	E1900021	E1900041	0,5	0,120	1 / 12
E1900002	E1900022	E1900042	1	0,120	1 / 12
E1900003	E1900023	E1900043	1,6	0,120	1 / 12
E1900004	E1900024	E1900044	2	0,120	1 / 12
E1900005	E1900025	E1900045	3	0,120	1 / 12
E1900006	E1900026	E1900046	4	0,120	1 / 12
E1900007	E1900027	E1900047	6	0,120	1 / 12
E1900008	E1900028	E1900048	10	0,120	1 / 12
E1900009	E1900029	E1900049	13	0,120	1 / 12
E1900010	E1900030	E1900050	16	0,120	1 / 12
E1900011	E1900031	E1900051	20	0,120	1 / 12
E1900012	E1900032	E1900052	25	0,120	1 / 12
E1900013	E1900033	E1900053	32	0,120	1 / 12
E1900014	E1900034	E1900054	40	0,120	1 / 12
E1900015	E1900035	E1900055	50	0,120	1 / 12
E1900016	E1900036	-	63	0,120	1 / 12



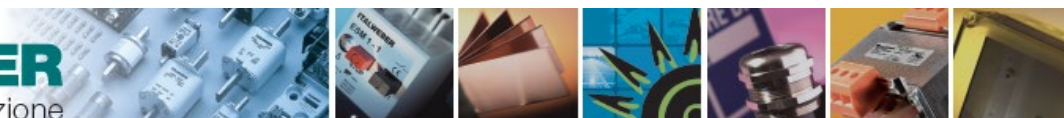


Versione unipolare + neutro (2 mod.)

Single pole + neutral version (2 mod.)

Codice / Code			In (A)	Peso / Weight (kg)	Conf Pack
Curva B / B curve	Curva C / C curve	Curva D / D curve			
-	E1900121	E1900141	0,5	0,240	1 / 6
E1900102	E1900122	E1900142	1	0,240	1 / 6
E1900103	E1900123	E1900143	1,6	0,240	1 / 6
E1900104	E1900124	E1900144	2	0,240	1 / 6
E1900105	E1900125	E1900145	3	0,240	1 / 6
E1900106	E1900126	E1900146	4	0,240	1 / 6
E1900107	E1900127	E1900147	6	0,240	1 / 6
E1900108	E1900128	E1900148	10	0,240	1 / 6
E1900109	E1900129	E1900149	13	0,240	1 / 6
E1900110	E1900130	E1900150	16	0,240	1 / 6
E1900111	E1900131	E1900151	20	0,240	1 / 6
E1900112	E1900132	E1900152	25	0,240	1 / 6
E1900113	E1900133	E1900153	32	0,240	1 / 6
E1900114	E1900134	E1900154	40	0,240	1 / 6
E1900115	E1900135	E1900155	50	0,240	1 / 6
E1900116	E1900136	-	63	0,240	1 / 6



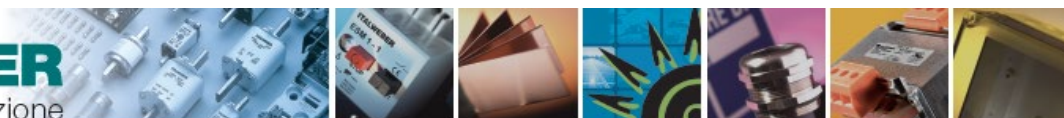


Versione bipolare

Two poles version

Codice / Code			In (A)	Peso / Weight (kg)	Conf Pack
Curva B / B curve	Curva C / C curve	Curva D / D curve			
-	E1900221	E1900241	0,5	0,240	1 / 6
E1900202	E1900222	E1900242	1	0,240	1 / 6
E1900203	E1900223	E1900243	1,6	0,240	1 / 6
E1900204	E1900224	E1900244	2	0,240	1 / 6
E1900205	E1900225	E1900245	3	0,240	1 / 6
E1900206	E1900226	E1900246	4	0,240	1 / 6
E1900207	E1900227	E1900247	6	0,240	1 / 6
E1900208	E1900228	E1900248	10	0,240	1 / 6
E1900209	E1900229	E1900249	13	0,240	1 / 6
E1900210	E1900230	E1900250	16	0,240	1 / 6
E1900211	E1900231	E1900251	20	0,240	1 / 6
E1900212	E1900232	E1900252	25	0,240	1 / 6
E1900213	E1900233	E1900253	32	0,240	1 / 6
E1900214	E1900234	E1900254	40	0,240	1 / 6
E1900215	E1900235	E1900255	50	0,240	1 / 6
E1900216	E1900236	-	63	0,240	1 / 6



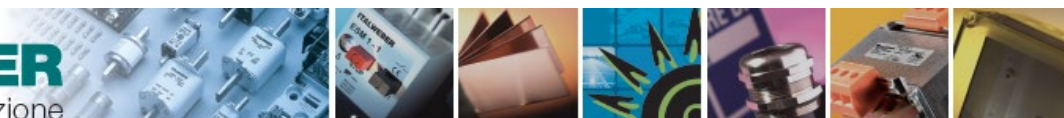


Versione tripolare

Three poles version

Codice / Code			In (A)	Peso / Weight (kg)	Conf Pack
Curva B / B curve	Curva C / C curve	Curva D / D curve			
-	E1900321	E1900341	0,5	0,350	1 / 4
E1900302	E1900322	E1900342	1	0,350	1 / 4
E1900303	E1900323	E1900343	1,6	0,350	1 / 4
E1900304	E1900324	E1900344	2	0,350	1 / 4
E1900305	E1900325	E1900345	3	0,350	1 / 4
E1900306	E1900326	E1900346	4	0,350	1 / 4
E1900307	E1900327	E1900347	6	0,350	1 / 4
E1900308	E1900328	E1900348	10	0,350	1 / 4
E1900309	E1900329	E1900349	13	0,350	1 / 4
E1900310	E1900330	E1900350	16	0,350	1 / 4
E1900311	E1900331	E1900351	20	0,350	1 / 4
E1900312	E1900332	E1900352	25	0,350	1 / 4
E1900313	E1900333	E1900353	32	0,350	1 / 4
E1900314	E1900334	E1900354	40	0,350	1 / 4
E1900315	E1900335	E1900355	50	0,350	1 / 4
E1900316	E1900336	-	63	0,350	1 / 4





Versione tripolare + neutro

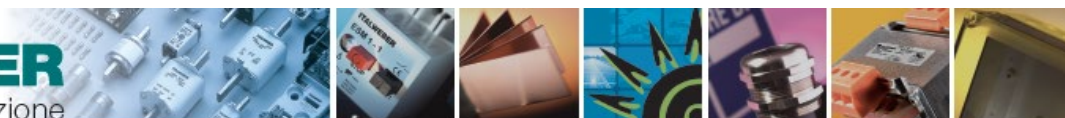
Three poles + neutral version

Codice / Code			In (A)	Peso / Weight (kg)	Conf Pack
Curva B / B curve	Curva C / C curve	Curva D / D curve			
-	E1900421	E1900441	0,5	0,460	1 / 3
E1900402	E1900422	E1900442	1	0,460	1 / 3
E1900403	E1900423	E1900443	1,6	0,460	1 / 3
E1900404	E1900424	E1900444	2	0,460	1 / 3
E1900405	E1900425	E1900445	3	0,460	1 / 3
E1900406	E1900426	E1900446	4	0,460	1 / 3
E1900407	E1900427	E1900447	6	0,460	1 / 3
E1900408	E1900428	E1900448	10	0,460	1 / 3
E1900409	E1900429	E1900449	13	0,460	1 / 3
E1900410	E1900430	E1900450	16	0,460	1 / 3
E1900411	E1900431	E1900451	20	0,460	1 / 3
E1900412	E1900432	E1900452	25	0,460	1 / 3
E1900413	E1900433	E1900453	32	0,460	1 / 3
E1900414	E1900434	E1900454	40	0,460	1 / 3
E1900415	E1900435	E1900455	50	0,460	1 / 3
E1900416	E1900436	-	63	0,460	1 / 3



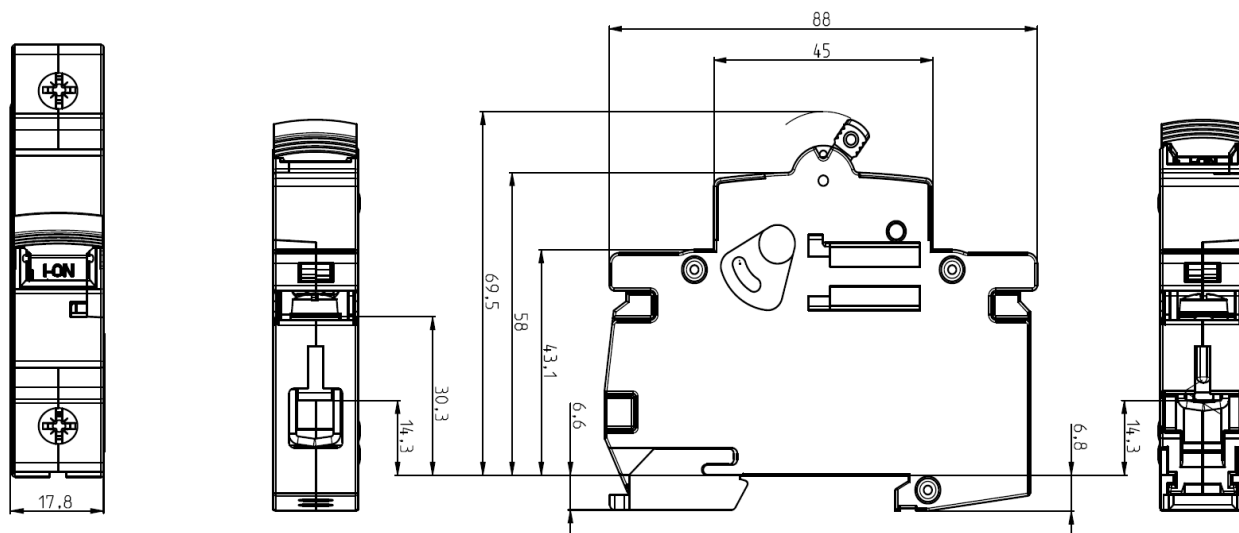
NOTA: gli interruttori magnetotermici della serie ETIMAT P6 del tipo 3P+N possono essere utilizzati come interruttori 4P

NOTE: circuit breakers type ETIMAT P6, 3P+N version, are suitable for use as 4P circuit breakers



Disegno (dimensioni in mm):

Drawing (dimensions in mm):



1p



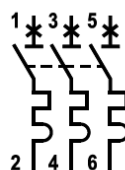
1p+n



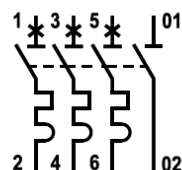
2p



3p



3p+n



Tripping characteristics

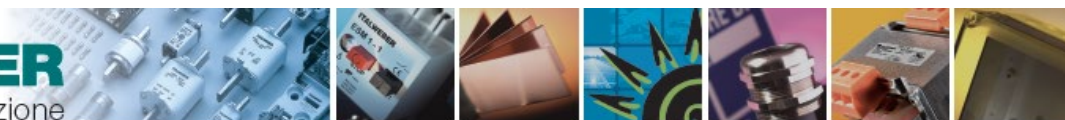
Characteristic	Test current	Tripping time	Result
B, C, D	$1,13 I_n$	$t \geq 3600 \text{ s}$	No tripping
B, C, D	$1,45 I_n$	$t < 3600 \text{ s}$	Tripping
B, C, D	$2,55 I_n$	$1 \text{ s} < t < 60 \text{ s}$	Tripping
B	$3,00 I_n$	$t \leq 0,1 \text{ s}$	No tripping
C	$5,00 I_n$	$t \leq 0,1 \text{ s}$	No tripping
D	$10,00 I_n$	$t \leq 0,1 \text{ s}$	No tripping
B	$5,00 I_n$	$t < 0,1 \text{ s}$	Tripping
C	$10,00 I_n$	$t < 0,1 \text{ s}$	Tripping
D	$20,00 I_n$	$t < 0,1 \text{ s}$	Tripping

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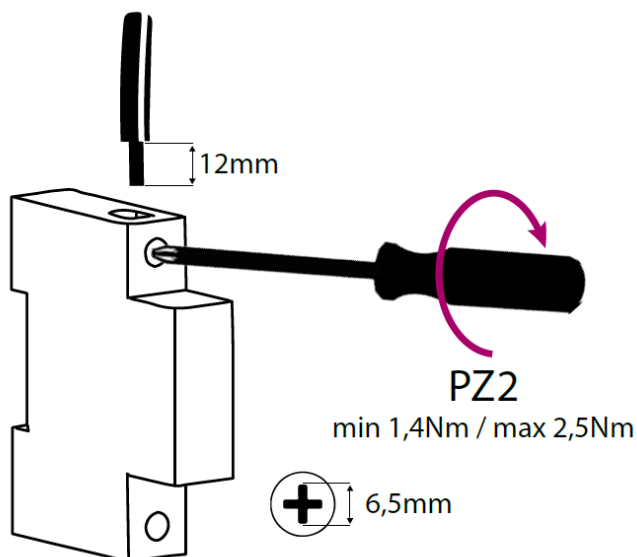
Capitale Sociale i.v. Euro 655.200,00
C.C.I.A.A. Milano N. 565572
Trib. Milano Reg.Soc.108694, Vol. 2869
C.F.-P.IVA 00737760157



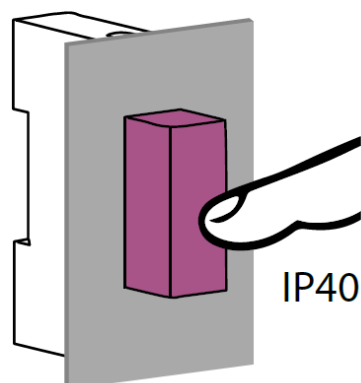
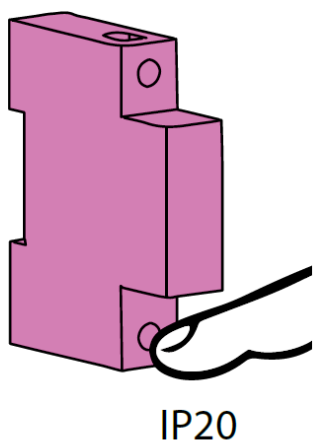
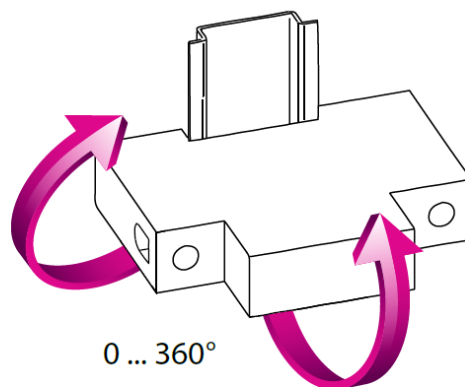


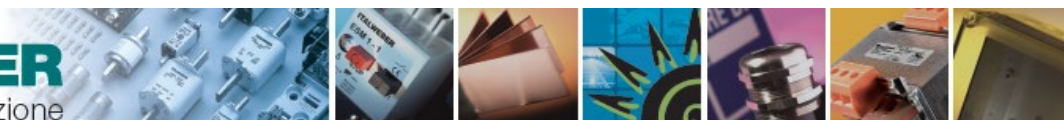
Caratteristiche tecniche:

Technical characteristics:

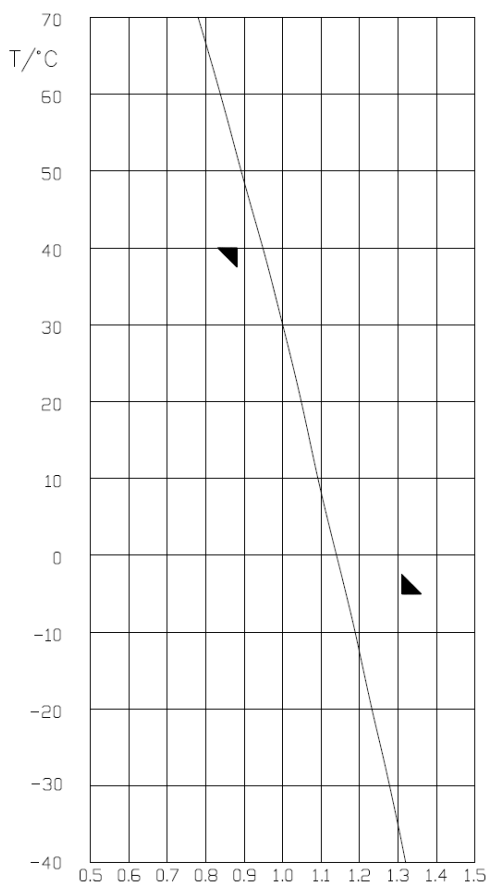


Any mounting position





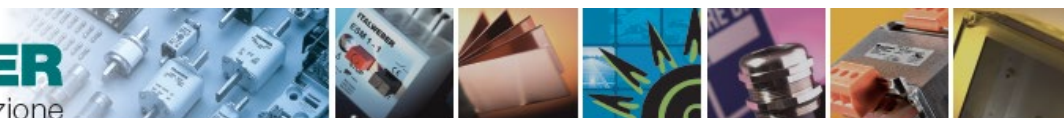
Effect of the ambient temperature on the tripping characteristic



In (A)	Ambient temperature T/°C											
	-40	-30	-20	-10	0	10	20	30	40	50	60	70
0,5	0,66	0,64	0,62	0,60	0,57	0,55	0,53	0,5	0,48	0,45	0,42	0,39
1	1,32	1,28	1,23	1,19	1,14	1,09	1,05	1	0,95	0,89	0,84	0,78
1,6	2,11	2,05	1,97	1,90	1,82	1,74	1,68	1,6	1,52	1,42	1,34	1,25
2	2,64	2,56	2,46	2,38	2,28	2,18	2,10	2	1,90	1,78	1,68	1,56
4	5,28	5,12	4,92	4,76	4,56	4,36	4,20	4	3,80	3,56	3,36	3,12
6	7,92	7,68	7,38	7,14	6,84	6,54	6,30	6	5,70	5,34	5,04	4,68
10	13,2	12,8	12,3	11,9	11,4	10,9	10,5	10	9,50	8,90	8,40	7,80
13	17,2	16,6	16,0	15,5	14,8	14,2	13,7	13	12,4	11,6	10,9	10,1
16	21,1	20,5	19,7	19,0	18,2	17,4	16,8	16	15,2	14,2	13,4	12,5
20	26,4	25,6	24,6	23,8	22,8	21,8	21,0	20	19,0	17,8	16,8	15,6
25	33,0	32,0	30,8	29,8	28,5	27,3	26,3	25	23,8	22,3	21,0	19,5
32	42,2	41,0	39,4	38,1	36,5	34,9	33,6	32	30,4	28,5	26,9	25,0
40	52,8	51,2	49,2	47,6	45,6	43,6	42,0	40	38,0	35,6	33,6	31,2
50	66,0	64,0	61,5	59,5	57,0	54,5	52,6	50	47,5	44,5	42,0	39,0
63	83,2	80,6	77,5	75,0	71,8	68,7	66,2	63	59,9	56,1	52,9	49,1

Correction factor is valid for current with times over 30 s
 $I(x^{\circ}C)$ - test current at x ambient temperature
 $I(30^{\circ}C)$ - test current at 30°C ambient temperature

$$k = \frac{I(x^{\circ}C)}{I(30^{\circ}C)}$$



Resistance and power dissipation

characteristic	I _n [A]	R/pole [mΩ]	P/pole [w]
B, C	0,5	3587	1,16
	1	935	1,21
	1,6	382	1,26
	2	264	1,37
	3	*	*
	4	69,6	1,38
	6	40,3	1,96
	10	16,9	2,00
	13	11,4	2,08
	16	8,17	2,26
	20	6,73	2,53
	25	5,03	2,96
	32	3,92	3,44
	40	*	*
	50	2,22	3,57
D	63	1,71	4,59
	0,5	*	*
	1	1183	1,55
	1,6	*	*
	2	303	1,58
	3	135	1,52
	4	81,8	1,66
	6	40,0	1,78
	10	17,3	1,57
	13	11,3	2,04
	16	8,59	2,31
	20	7,17	2,73
	25	4,77	2,91
	32	3,92	3,44
	40	*	*
	50	*	*
	63	*	*

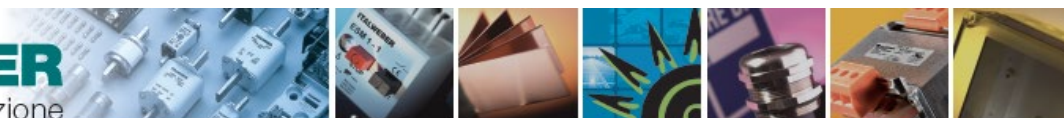
Selectivity

ETIMAT	gG NV										
	20	25	32	35	40	50	63	80	100	125	160
B 6	0,5	0,78	1,2	1,4	1,7	2,4	4,6	6,0	6,0	6,0	6,0
B 10/13	0,45	0,65	1,1	1,3	1,6	2,2	4,0	6,0	6,0	6,0	6,0
B 16		0,55	1,0	1,2	1,5	2,0	3,6	5,5	6,0	6,0	6,0
B 20			0,85	1,2	1,5	1,8	3,1	4,6	6,0	6,0	6,0
B 25				1,1	1,4	1,7	2,9	4,0	6,0	6,0	6,0
B 32					1,3	1,6	2,5	3,4	5,5	6,0	6,0
B 40						1,5	2,2	3,1	4,9	6,0	6,0
B 50							2,1	2,9	4,0	6,0	6,0
B 63								2,5	3,3	5,1	6,0

ETIMAT	gG NV										
	20	25	32	35	40	50	63	80	100	125	160
C,D 6	0,52	0,82	1,3	1,5	2,0	2,7	5,1	6,0	6,0	6,0	6,0
C,D 10/13	0,47	0,70	1,1	1,4	1,8	2,3	4,0	6,0	6,0	6,0	6,0
C,D 16		0,61	0,92	1,2	1,5	1,9	3,2	5,0	6,0	6,0	6,0
C,D 20			0,90	1,1	1,4	1,7	2,9	4,2	6,0	6,0	6,0
C,D 25				1,0	1,3	1,6	2,7	3,9	6,0	6,0	6,0
C,D 32					1,2	1,5	2,3	3,4	5,2	6,0	6,0
C,D 40						1,4	2,1	3,0	4,6	6,0	6,0
C,D 50							2,0	2,7	3,8	6,0	6,0
C,D 63								2,3	3,2	5,5	6,0

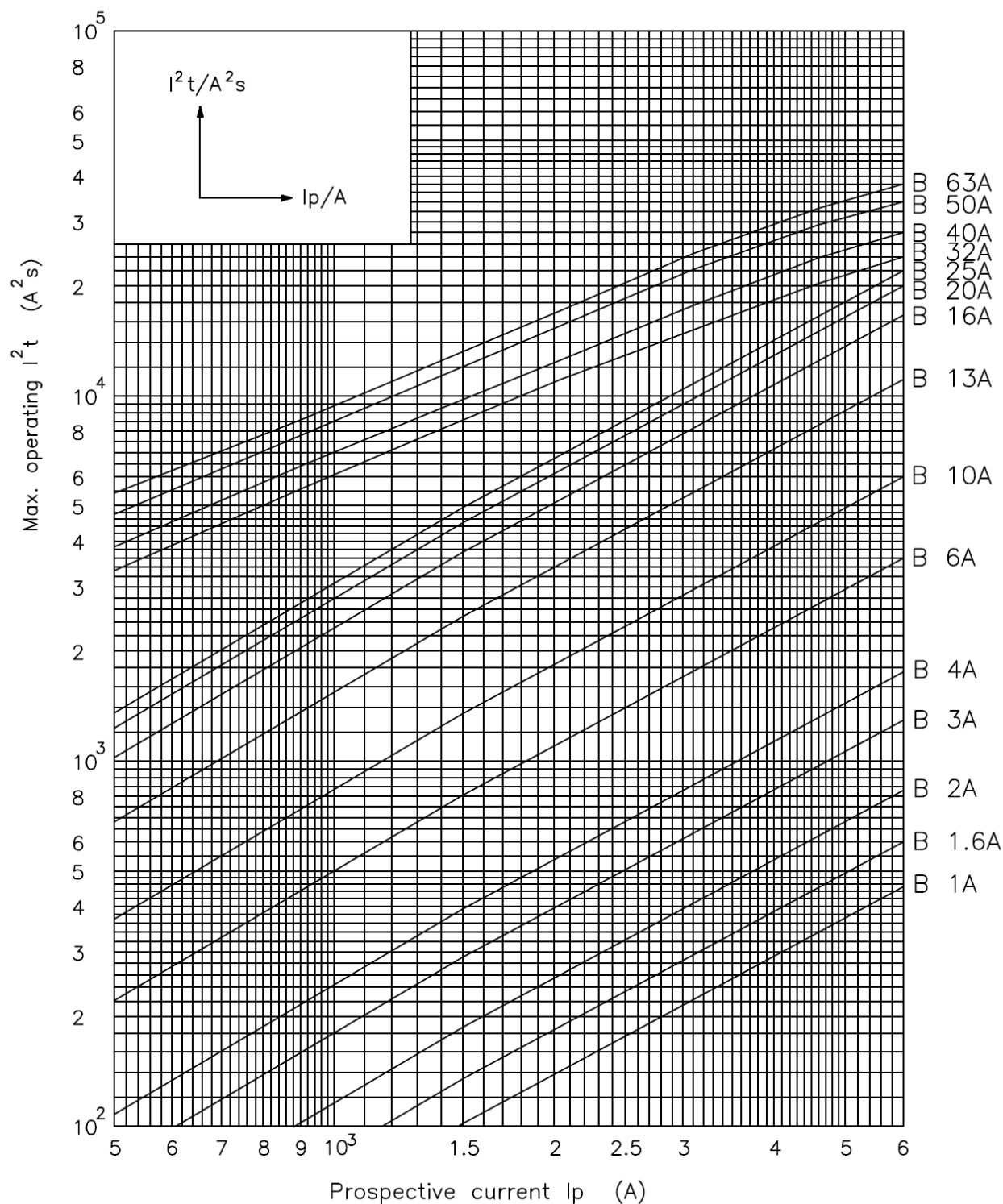
R: measured at 0.1*I_n

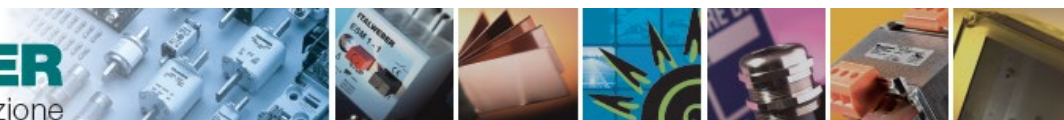
P: measured at I_n



Curve caratteristiche tempo-corrente:

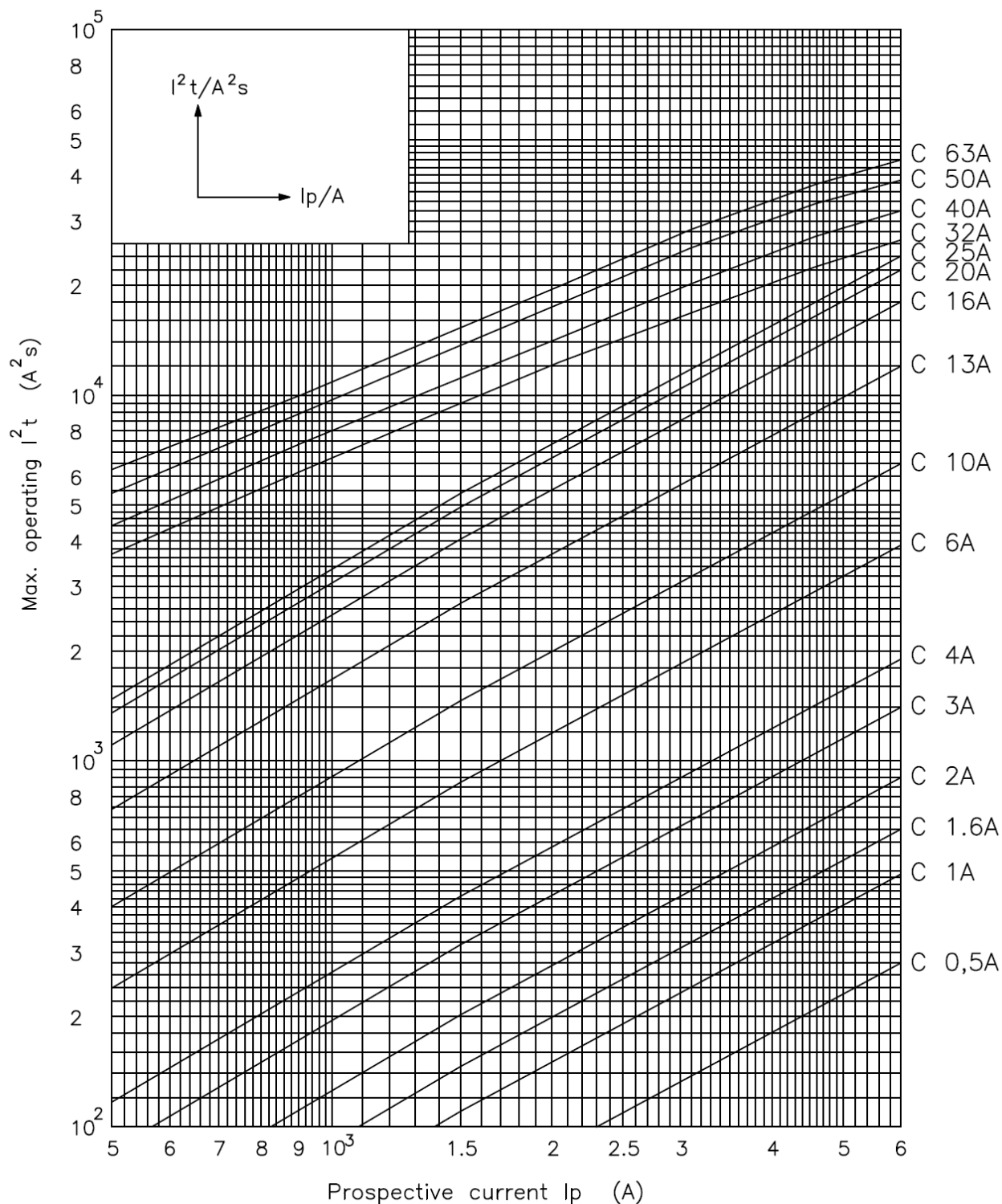
Time-current characteristic curves:

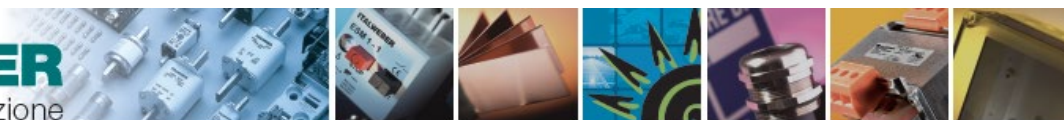




Curve caratteristiche tempo-corrente:

Time-current characteristic curves:





Curve caratteristiche tempo-corrente:

Time-current characteristic curves:

