

Disjoncteurs divisionnaires PLSM-PLZM

Miniature Circuit Breakers PLSM-PLZM

10 kA (EN 60 898) 15 kA (EN 60 947-2)

1 Pole

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6	242174	PLSM-B6	242200	PLSM-C6	242223	PLSM-D6	12
10	242176	PLSM-B10	242202	PLSM-C10	242225	PLSM-D10	12
16	242180	PLSM-B16	242206	PLSM-C16	242229	PLSM-D16	12
20	242181	PLSM-B20	242207	PLSM-C20	242230	PLSM-D20	12
25	242182	PLSM-B25	242208	PLSM-C25	242231	PLSM-D25	12
32	242183	PLSM-B32	242209	PLSM-C32	242232	PLSM-D32	12
40	242184	PLSM-B40	242210	PLSM-C40	242233	PLSM-D40	12
50	242185	PLSM-B50	242211	PLSM-C50			12
63	242186	PLSM-B63	242212	PLSM-C63			12

1 Pole+N

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6			242330	PLZM-C6/1N	242353	PLZM-D6/1N	6
10			242332	PLZM-C10/1N	242355	PLZM-D10/1N	6
16			242336	PLZM-C16/1N	242359	PLZM-D16/1N	6
20			242337	PLZM-C20/1N	242360	PLZM-D20/1N	6
25			242338	PLZM-C25/1N	242361	PLZM-D25/1N	6
32			242339	PLZM-C32/1N	242362	PLZM-D32/1N	6
40			242340	PLZM-C40/1N	242363	PLZM-D40/1N	6
50			242341	PLZM-C50/1N			6
63			242342	PLZM-C63/1N			6

2 Poles

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6	242373	PLSM-B6/2	242399	PLSM-C6/2	242422	PLSM-D6/2	6
10	242375	PLSM-B10/2	242401	PLSM-C10/2	242424	PLSM-D10/2	6
16	242379	PLSM-B16/2	242405	PLSM-C16/2	242428	PLSM-D16/2	6
20	242380	PLSM-B20/2	242406	PLSM-C20/2	242429	PLSM-D20/2	6
25	242381	PLSM-B25/2	242407	PLSM-C25/2	242430	PLSM-D25/2	6
32	242382	PLSM-B32/2	242408	PLSM-C32/2	242431	PLSM-D32/2	6
40	242383	PLSM-B40/2	242409	PLSM-C40/2	242432	PLSM-D40/2	6
50	242384	PLSM-B50/2	242410	PLSM-C50/2			
63	242385	PLSM-B63/2	242411	PLSM-C63/2			

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3 Poles

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6	242442	PLSM-B6/3	242468	PLSM-C6/3	242491	PLSM-D6/3	4
10	242444	PLSM-B10/3	242470	PLSM-C10/3	242493	PLSM-D10/3	4
16	242448	PLSM-B16/3	242474	PLSM-C16/3	242497	PLSM-D16/3	4
20	242449	PLSM-B20/3	242475	PLSM-C20/3	242498	PLSM-D20/3	4
25	242450	PLSM-B25/3	242476	PLSM-C25/3	242499	PLSM-D25/3	4
32	242451	PLSM-B32/3	242477	PLSM-C32/3	242500	PLSM-D32/3	4
40	242452	PLSM-B40/3	242478	PLSM-C40/3	242501	PLSM-D40/3	4
50	242453	PLSM-B50/3	242479	PLSM-C50/3			4
63	242454	PLSM-B63/3	242480	PLSM-C63/3			4

3 Poles+N

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6	242511	PLSM-B6/3N	242537	PLSM-C6/3N	242560	PLSM-D6/3N	3
10	242513	PLSM-B10/3N	242539	PLSM-C10/3N	242562	PLSM-D10/3N	3
16	242517	PLSM-B16/3N	242543	PLSM-C16/3N	242566	PLSM-D16/3N	3
20	242518	PLSM-B20/3N	242544	PLSM-C20/3N	242567	PLSM-D20/3N	3
25	242519	PLSM-B25/3N	242545	PLSM-C25/3N	242568	PLSM-D25/3N	3
32	242520	PLSM-B32/3N	242546	PLSM-C32/3N	242569	PLSM-D32/3N	3
40	242521	PLSM-B40/3N	242547	PLSM-C40/3N	242570	PLSM-D40/3N	3
50	242522	PLSM-B50/3N	242548	PLSM-C50/3N			3
63	242523	PLSM-B63/3N	242549	PLSM-C63/3N			3

4 Poles

Courbe/Characteristic B, C, D



I _n (A)	Courbe B		Courbe C		Courbe D		Pack
	Code	Type	Code	Type	Code	Type	
6	242580	PLSM-B6/4	242606	PLSM-C6/4	242629	PLSM-D6/4	3
10	242582	PLSM-B10/4	242608	PLSM-C10/4	242631	PLSM-D10/4	3
16	242586	PLSM-B16/4	242612	PLSM-C16/4	242635	PLSM-D16/4	3
20	242587	PLSM-B20/4	242613	PLSM-C20/4	242636	PLSM-D20/4	3
25	242588	PLSM-B25/4	242614	PLSM-C25/4	242637	PLSM-D25/4	3
32	242589	PLSM-B32/4	242615	PLSM-C32/4	242638	PLSM-D32/4	3
40	242590	PLSM-B40/4	242616	PLSM-C40/4	242639	PLSM-D40/4	3
50	242591	PLSM-B50/4	242617	PLSM-C50/4			3
63	242592	PLSM-B63/4	242618	PLSM-C63/4			3

Disjoncteurs divisionnaires PLS.../PLZ...

Miniature Circuit Breakers PLS.../PLZ...

CARACTERISTIQUES TECHNIQUES | TECHNICAL DATA

ELECTRIQUES | ELECTRICAL

Homologation	PLS./PLZ. PLS6-DC/PLZ6-DC	Design according to	PLS./PLZ. PLS6-DC/PLZ6-DC	IEC/EN 60898 IEC/EN 60947-2
Tension assignée	PLS../PLZ.. PLS../PLZ.. PLS6 DC/PLZ6	Rated voltage	PLS../PLZ.. PLS../PLZ.. PLS6 DC/PLZ6	AC : 230/400 V DC : 48 V (per pole) DC : 250 V (per pole)
Fréquence assignée		Rated frequency		50/60 HZ
Fréquence assignée IEC/EN 60898	PLS6/PLZ6 PLSM/PLZM	Rated breaking capacity according to IEC/EN 60898	PLS6/PLZ6 PLSM/PLZM	6/10 kA 10/15 kA
Courbe de déclenchement		Characteristic		B, C, D
Fusible amont max	>10 kA >6 kA	Back-up fuse	>10 kA >6 kA	125 A gl max 100 A gl max
Classe de sélectivité		Selectivity class		3
Raccordement réseau		Line voltage connection		optional (above/below)
Durée de vie		Endurance		≥ 8000 operating cycles

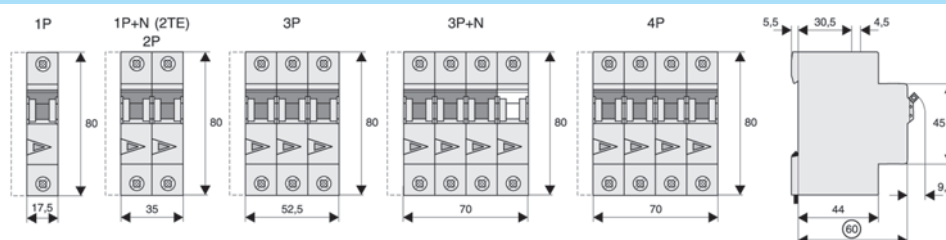
MÉCANIQUES | MECHANICAL

Epaulement	Frame size	45 mm
Hauteur	Device height	80 mm
Largeur	Device width	17,5 mm per pole (1 MU)
Montage	Mounting	quick fastening with 3 lock-in positions on DIN rail EN 50022
Degré de protection	Degree of protection	IP 20
Bornes arrivée et départ	Upper and lower terminals	open mouthed/lift terminals
Protection de bornes	Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Section de raccordement	Terminal capacity	1-25 mm ²
Couple de serrage	Terminal fastening torque	1-2,5 Nm
Rigidité du rail requise	Busbar thickness	0,8-2 mm

ACCESSOIRES | ACCESSORIES

Contact auxiliaire pour montage ultérieur	Auxiliary switch for subsequent installation	ZP-AHK
Contact auxiliaire signalisation de défaut pour montage ultérieur	Tripping signal contact for subsequent installation	ZP-NHK
Réenclencheur automatique	Remote control and automatic switching device	Z-FW/LP
Bobine à émission	Shunt trip release	ZP-ASA/..
Bobine à manque de tension	Under voltage release	Z-USA/..
Cache Bornes	Compact enclosure	CB7CB1-2 CB7CB3-4
Borne supplémentaire 35mm ²	Additional terminal 35mm ²	Z-HA-EK/35
Kit de cadenassage	Anti-tamper device	HA7-SPE

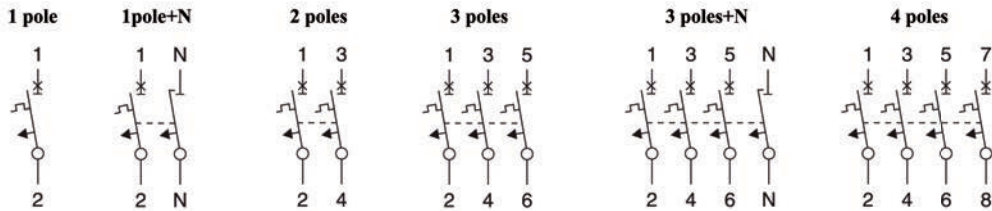
DIMENSIONS (mm)



Disjoncteurs divisionnaires PLS.../PLZ...

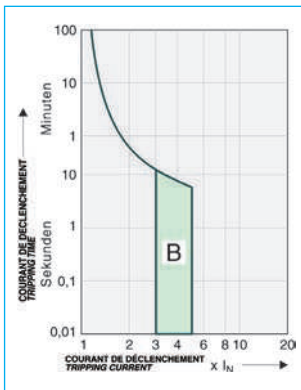
Miniature Circuit Breakers PLS.../PLZ...

SCHÉMAS DE CONNEXIONS | CONNECTION DIAGRAMS

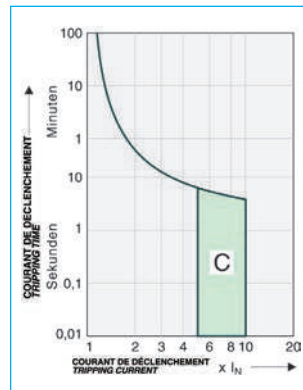


COURBE DE DÉCLENCHEMENT (IEC/EN 60898) TRIPPING CHARACTERISTICS (IEC/EN 60898)

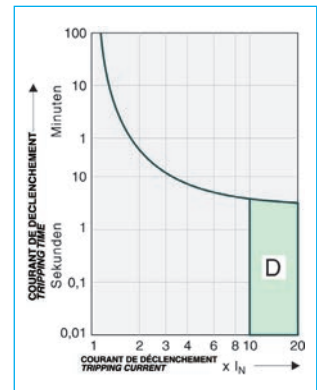
Courbe de déclenchement B
Tripping characteristic B



Courbe de déclenchement C
Tripping characteristic C



Courbe de déclenchement D
Tripping characteristic D



Courbes rapides (B), lentes (C), très lentes (D)

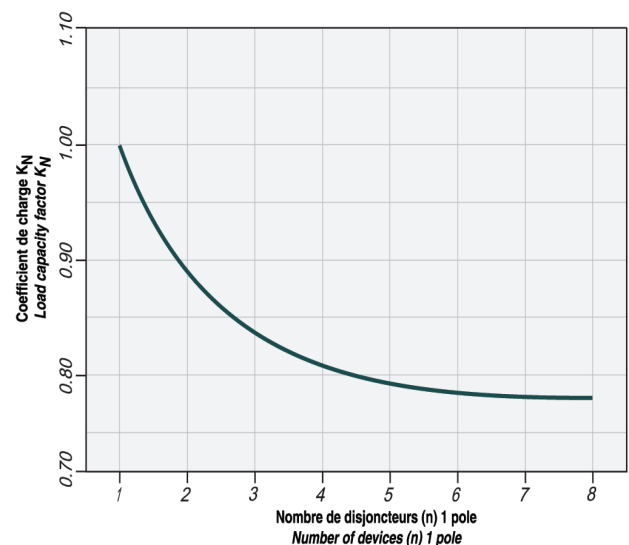
Quick-acting (B), slow (C), very slow (D)

INFLUENCE DE LA TEMPÉRATURE AMBIANTE SUR LE DÉCLENCHEMENT THERMIQUE EFFECT OF THE AMBIENT TEMPERATURE ON THERMAL TRIPPING BEHAVIOUR

I _n [A]	Ambient temperature T [°C]															
	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
0.16	0.20	0.19	0.9	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.12	0.11
0.25	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.21	0.20	0.19
0.5	0.61	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41
0.75	0.92	0.90	0.87	0.84	0.81	0.78	0.75	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.64	0.63
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89	0.88	0.87	0.86
1.5	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2
1.6	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.2
2	2.4	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.6
2.5	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.1	2.0	1.9
3	3.7	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.4
3.5	4.3	4.2	4.1	3.9	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	2.9	2.8
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.3	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5.0
8	9.8	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	7.0	6.9	6.8
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	8.8	8.7	8.6
12	15	14	14	13	13	12	12	12	11	11	11	11	11	10	10	9
13	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	10
15	18	18	17	17	16	16	15	15	15	14	14	14	13	13	12	12
16	20	19	19	18	17	17	16	16	15	15	15	14	14	13	13	12
20	24	24	23	22	22	21	20	20	19	19	19	18	18	17	16	15
25	31	30	29	28	27	26	25	25	24	24	23	23	22	21	20	19
32	39	38	37	36	35	33	32	32	31	30	30	29	28	27	26	25
40	49	48	47	45	43	42	40	39	39	38	37	36	35	34	33	32
50	61	60	58	56	54	52	50	49	48	47	46	45	44	43	42	41
63	77	76	73	71	68	66	63	62	61	60	58	57	56	55	54	53

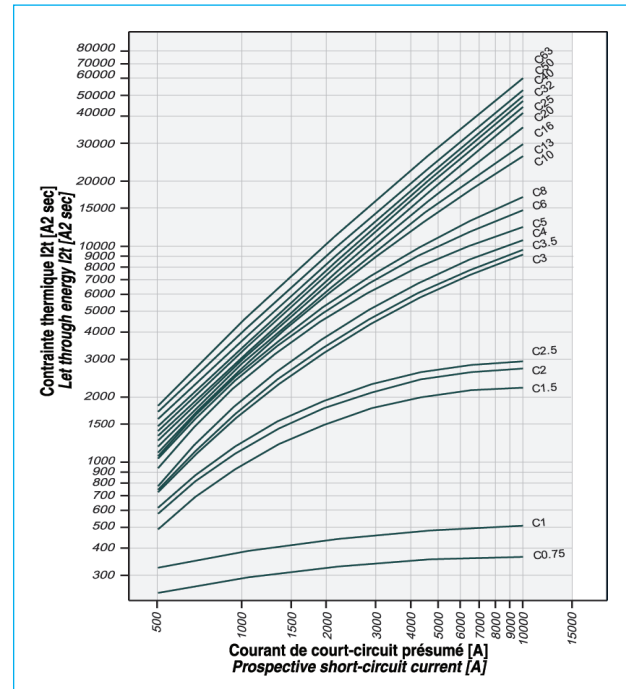
Valeurs corrigées du courant assigné en fonction de la température ambiante
Adjusted rated current values according to the ambient temperature

CAPACITÉ DE CHARGE DE DISJONCTEURS MONTÉS EN RANGÉES LOAD CAPACITY OF SERIES CONNECTED MINIATURE CIRCUIT BREAKERS



CONTRAINTE THERMIQUE DES DISJONCTEURS DIVISIONNAIRES PLSM/PLZM

Contrainte thermique des PLSM/PLZM, Courbe C, 1p
Let-through energy PLSM/PLZM, characteristic C, 1p



The graph shows the relationship between the prospective short-circuit current I (in Amperes) on the x-axis and the thermal constraint I^2t (in $A^2 \cdot sec$) on the y-axis. The x-axis is logarithmic, ranging from 500 to 15,000 A. The y-axis is also logarithmic, ranging from 300 to 80,000 $A^2 \cdot sec$. Multiple curves are plotted for different breaking times t_2 in seconds: 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 13, 16, 20, 25, 32, 40. As the breaking time t_2 increases, the thermal constraint I^2t also increases for any given prospective current I .

Grâce au système indépendant de la manette.

