

SG54112



Description

- Top-quality miniature circuit breakers 1P+N with a width of 1 module unit requiring little space for installation
- Contact position indicator red - green
- Guide for secure terminal connection
- Comprehensive range of accessories for subsequent installation
- Rated currents up to 40 A
- Tripping characteristics B, C
- Rated breaking capacity 4.5 kA according to IEC/EN 60898

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Rated current I_n (A)	Type Designation	Article No.	Units per package
4.5 kA, Characteristic B			
1+N-pole			
6	PLG4-B6/1N	264700	12/120
10	PLG4-B10/1N	264701	12/120
13	PLG4-B13/1N	264702	12/120
16	PLG4-B16/1N	264703	12/120
20	PLG4-B20/1N	264727	12/120
25	PLG4-B25/1N	264728	12/120
32	PLG4-B32/1N	264729	12/120
40	PLG4-B40/1N	264740	12/120

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4.5 kA, Characteristic C			
1+N-pole			
2	PLG4-C2/1N	264741	12/120
4	PLG4-C4/1N	264742	12/120
6	PLG4-C6/1N	264743	12/120
10	PLG4-C10/1N	264744	12/120
13	PLG4-C13/1N	264745	12/120
16	PLG4-C16/1N	264746	12/120
20	PLG4-C20/1N	264747	12/120
25	PLG4-C25/1N	264748	12/120
32	PLG4-C32/1N	264749	12/120
40	PLG4-C40/1N	264750	12/120

Specifications | Miniature Circuit Breakers PLG

Description

- High selectivity between MCB and back-up fuse due to low let-through energy
- Profile compatible with other devices of the Xpole series, bridging with the PFGM RCD circuit breaker is possible
- Colour of the switching toggle according to the performance rating of the circuit breaker
- Meets the requirements of insulation co-ordination, distance between contacts > 4 mm, for secure isolation
- Rated breaking capacity $I_{cn1} = 3 \text{ kA}$
- N-Links

Technical Data

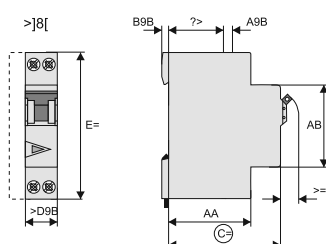
PLG	
Electrical	
Design according to	IEC/EN 60898
Current test marks as printed onto the device	
Rated voltage	U_n
AC	230 V
DC	48 V
Rated frequency	50/60 Hz
Rated breaking capacity	
PLG6	6 kA
PLG4	4.5 kA
Characteristic	B, C
Back-up fuse	
>6 kA	max. 100 A gL/gG
>4.5 kA	max. 80 A gL/gG
Selectivity class	3
Endurance electrical components	≥ 8,000 operating cycles
Mechanical	
Frame size	45 mm
Device height	80 mm
Device width	17.5 mm per pole (1MU for 1p+N)
Mounting	quick fastening with 2 lock-in positions on DIN rail EN50022
Degree of protection	IP20
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, DGVV VS3, EN 50274
Terminal capacity	1x (1.5 - 35) mm ² single wire 2x (1.5 - 16) mm ² multi wire
Terminal cross-section	1-16 mm ²

Connection diagram

1-pole + N

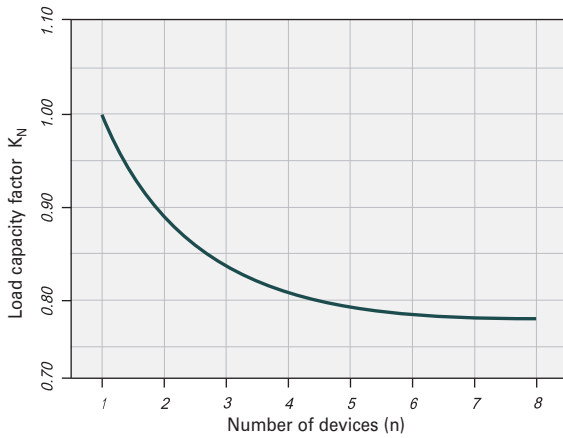


Dimensions (mm)

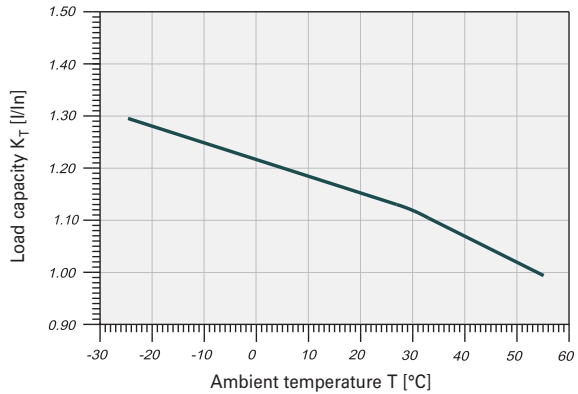


Load rating – Effect of ambient temperature PLG6

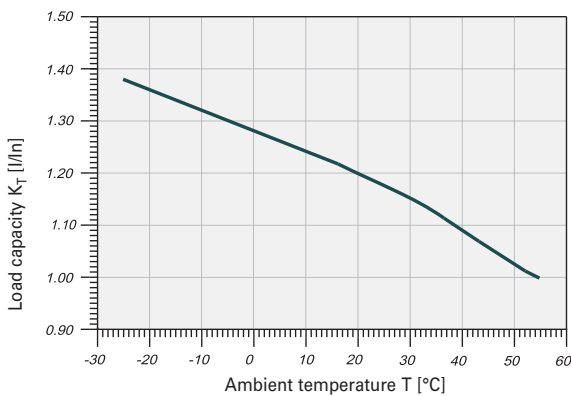
Load Capacity of Series Connected PLG6



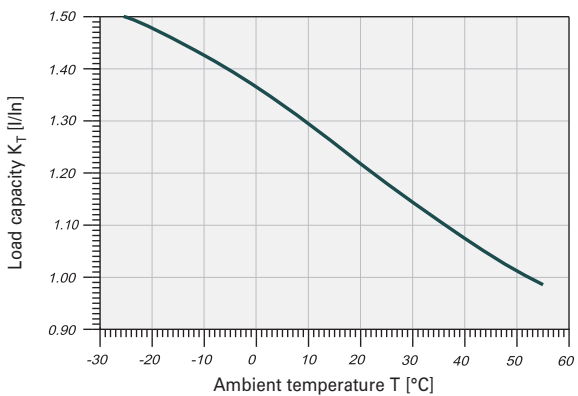
Effect of ambient temperature ($I_n = 2-13$ A)



Effect of ambient temperature ($I_n = 16-25$ A)



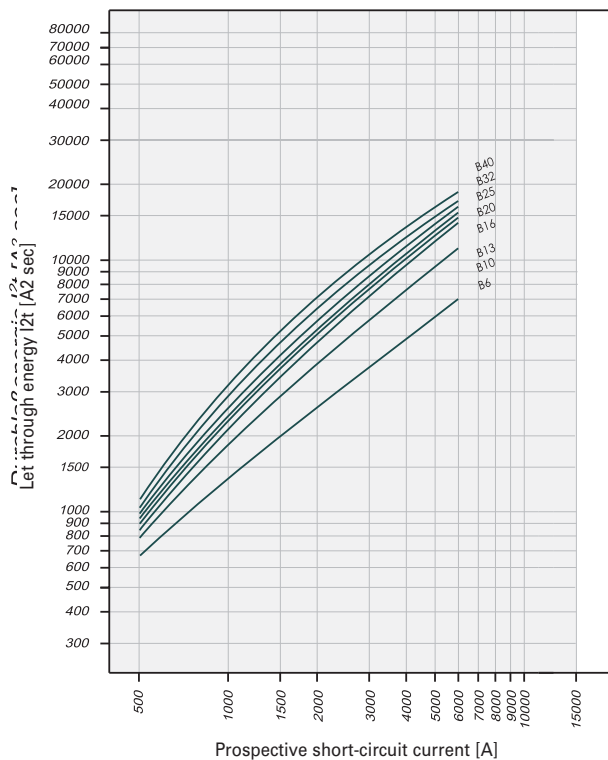
Effect of ambient temperature ($I_n = 32, 40$ A)



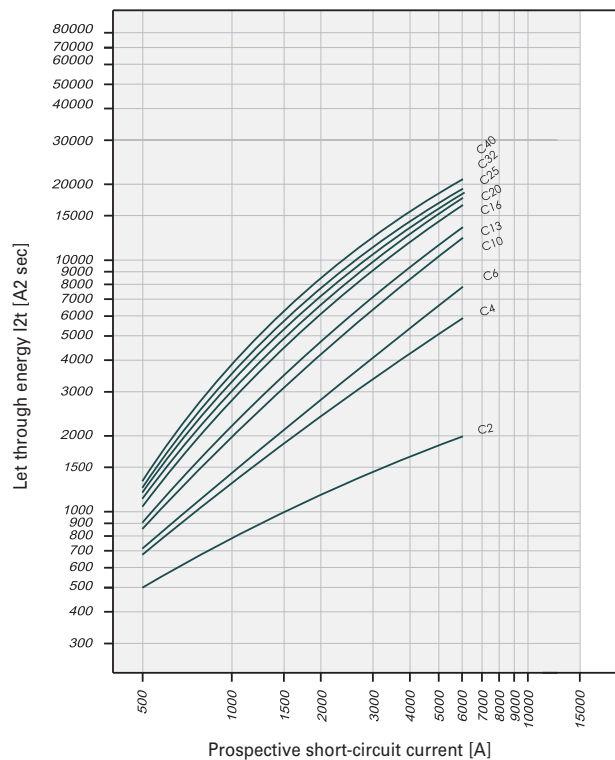
mitted permanent load at ambient temperature T (°C) with n devices $I_{DL} = I_n K_T(T) K_N(N)$

Let-through energy PLG6

Let-through energy PLG6, Characteristic B, 1+N-pole

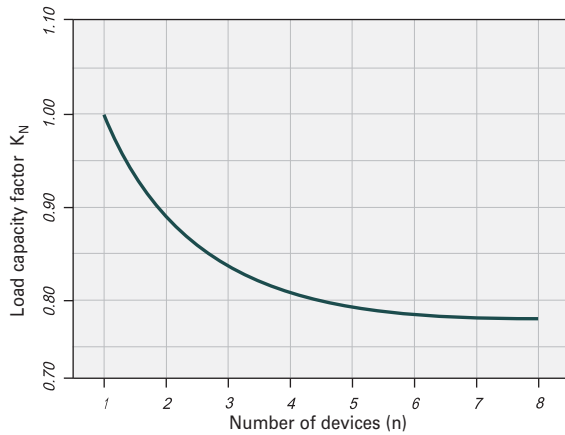


Let-through energy PLG6, Characteristic C, 1+N-pole

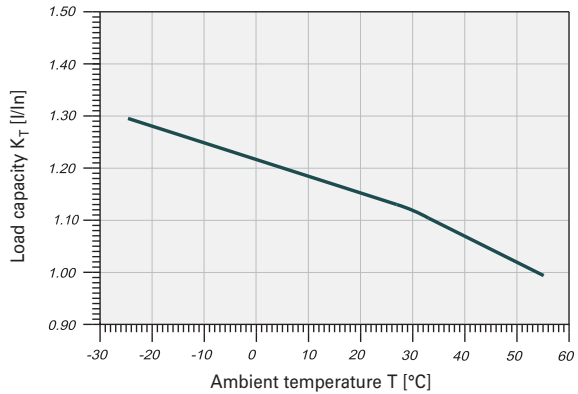


Load rating – Effect of ambient temperature PLG4

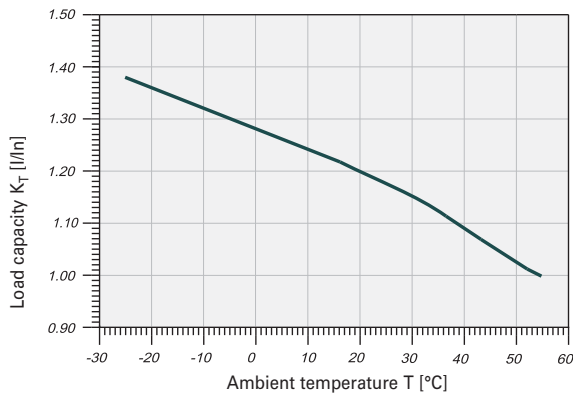
Load Capacity of Series Connected PLG4



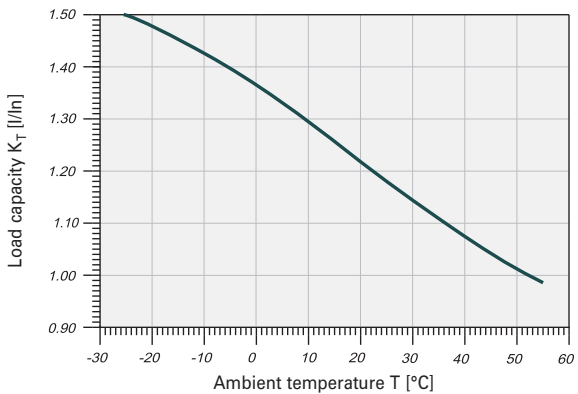
Effect of ambient temperature ($I_n = 2-13\text{ A}$)



Effect of ambient temperature ($I_n = 16-25\text{ A}$)



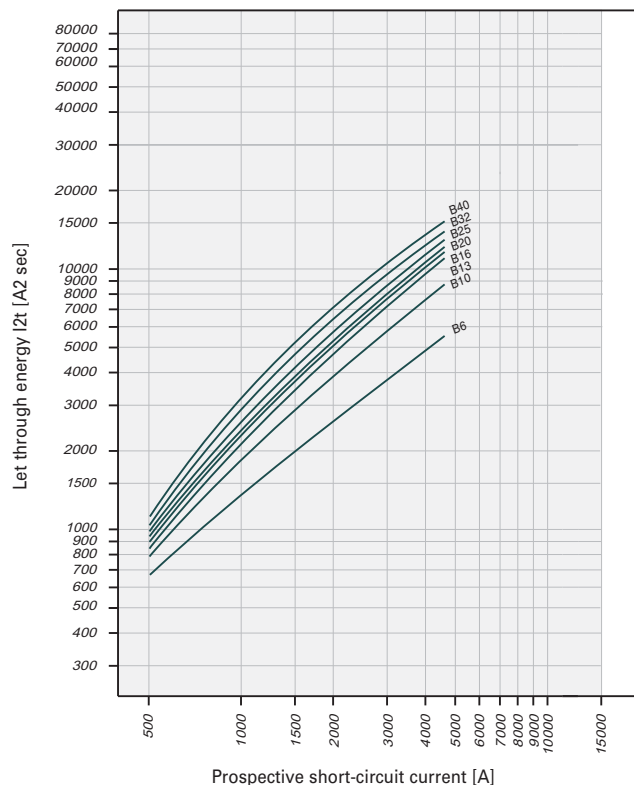
Effect of ambient temperature ($I_n = 32, 40\text{ A}$)



mitted permanent load at ambient temperature T (°C) with n devices $I_{DL} = I_n K_T (T) K_N (N)$

Let-through energy PLG4

Let-through energy PLG4, Characteristic B, 1+N-pole



Let-through energy PLG4, Characteristic C, 1+N-pole

