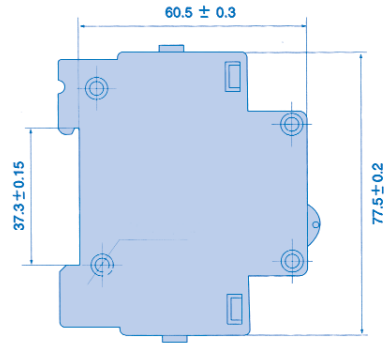


EN 60898

GTEC MCBS

Gtec 6kA Miniature Circuit Breaker



TECHNA'S GTEC range provides maximum price / performance ratios for customers requiring 6kA protection.

Gtec MCBs are available in a wide range of ratings in trip curves B, C and D.

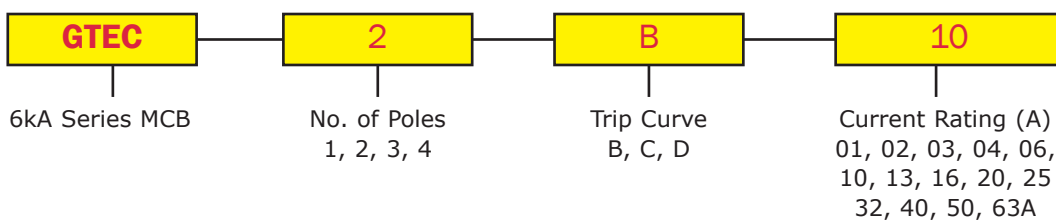
For more demanding applications a high current variant is available.

The winning benefits of competitive price and proven reliability keep customers re-ordering and re-ordering again.

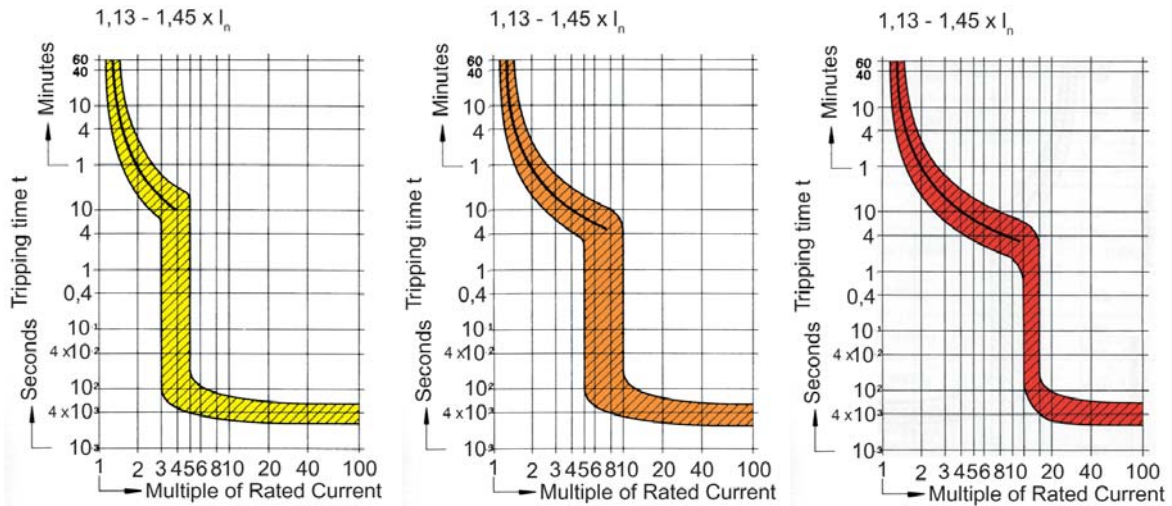
Specification:

POLES:	1, 2, 3, 4
RATINGS (A)	1 – 63 A
RATED VOLTAGE:	230 / 400V
BREAKING CAPACITY:	6kA
TRIP CURVES:	B, C and D to EN60898
TERMINAL TIGHTENING TORQUE:	1.2 - 2Nm

Gtec Ordering Scheme:



Gtec Trip Curves:



Gtec Accessories



ORDER CODE	GTECAUX1CO	GTECAUXSCO
DESCRIPTION	Auxiliary Contact for indication of breaker on / off	Signal Contact for indication of breaker tripped / not tripped
CONTACT ARRANGEMENT	1 C/O (changeover)	1 C/O
CONTACT RATING	3A, 415 VAC; 1A, 125 VDC	3A, 415 VAC; 1A, 125 VDC
EXTRA FEATURES		Positive indication of trip position via indicator window in front panel

Gtec 6kA MCB Technical Specifications:

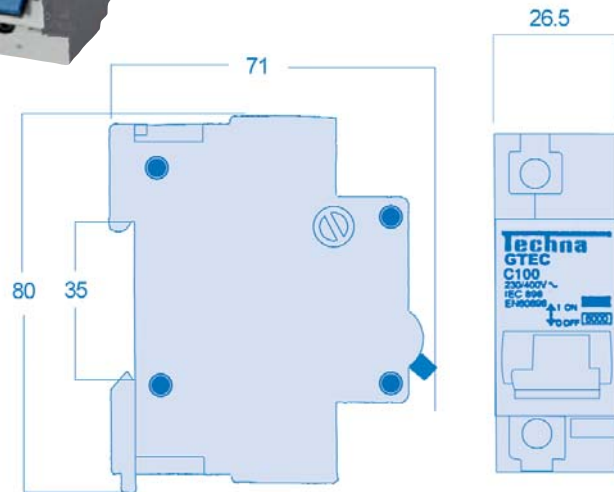
Tripping characteristic	B	C	D
Application	Wiring protection	Wiring protection, device protection	Wiring protection, Power circuit, Transformers, Motors
Number of poles	1-4		
Breaking Capacity	6 kA		
Current limiting class	3 ($\leq 40A$)		n/a
Rated voltage AC	230/400Vac		
Rated voltage DC L/R =4ms	48Vdc		
Rated current range	1-63 A		
Thermal must hold (A) > 1h	1.13xI _n		
Thermal must trip (A) < 1h	1.45xI _n		
Electromagnetic must hold (A) > 0.1s	3 x I _n	5 x I _n	10 x I _n
Electromagnetic must trip (A) < 0.1s	5 x I _n	10 x I _n	20 x I _n
Reference calibration temperature	35°C		
Frequency range	50-60 Hz		
Ambient operating range temp.	-25 to 55°C		
Mechanical Life	100,000 cycles on/off		
Installation position	any		
Mounting	Din-rail according to DIN EN 60715 35mm		

Gtec 6kA MCB Technical Specifications:

Vibration Resistance	3g
Operating Temperature Range	-25°C to 60°C
Cable size	1 mm ² to 25 mm ²
Terminal Tightening Torque	1.5 Nm to 2 Nm
Bus Bar Comb Connection	BBtec Pin 16

Rated current of MCB	Internal Impedances & Power Loss					MCB Temperature Compensation					
	Internal impedance	Power loss on CB	Maximum impedance of breakdown loop (0.2/0.4s)			Effective rated current allowing for ambient temperature.					
In (A)	Z (mΩ)	P (W)	Z _s (Ω)			I cor (A)					
	Char. B,C,D	Char. B,C,D	Char.B	Char.C	Char. D	Ambient Temperature					
						20°C	23°C	25°C	27°C	30°C	35°C
1.00	1150	1.15	-	-	-	1.04	1.03	1.02	1.01	1.00	0.98
2.00	325	1.3	-	-	-	2.08	2.05	2.04	2.02	2.0	1.96
4.00	98	1.57	-	-	-	4.16	4.11	4.08	4.03	4.0	3.92
6.00	26	0.93	8.0	4.0	2.0	6.24	6.16	6.12	6.05	6.0	5.88
10.00	11	1.09	4.8	2.4	1.2	10.39	10.27	10.2	10.08	10.0	9.8
16.00	7.8	1.99	3.0	1.5	0.75	16.63	16.44	16.31	16.13	16.0	15.69
20.00	4.4	1.77	2.4	1.2	0.6	20.78	20.55	20.39	20.16	20.0	19.61
25.00	3	1.86	1.92	0.96	0.48	25.98	25.69	25.49	25.20	25.0	24.51
32.00	2.7	2.8	1.5	0.75	0.38	33.25	32.88	32.63	32.25	32.0	31.37
40.00	2.2	3.52	1.2	0.6	0.3	41.57	41.10	40.78	40.31	40.0	39.22
50.00	1.3	3.35	0.96	0.48	0.24	51.96	51.37	50.98	50.39	50.0	49.02
63.00	1.2	4.76	0.76	0.38	0.19	65.47	64.73	64.24	63.49	63.0	61.76

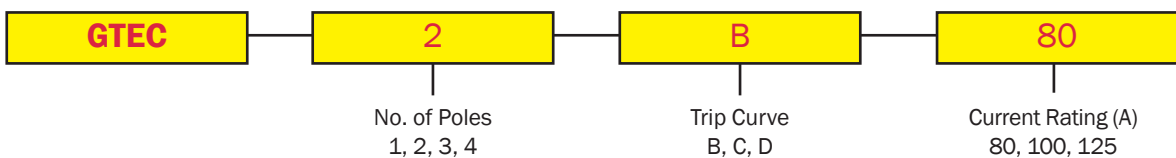
Gtec 80-125A High-Current MCBs



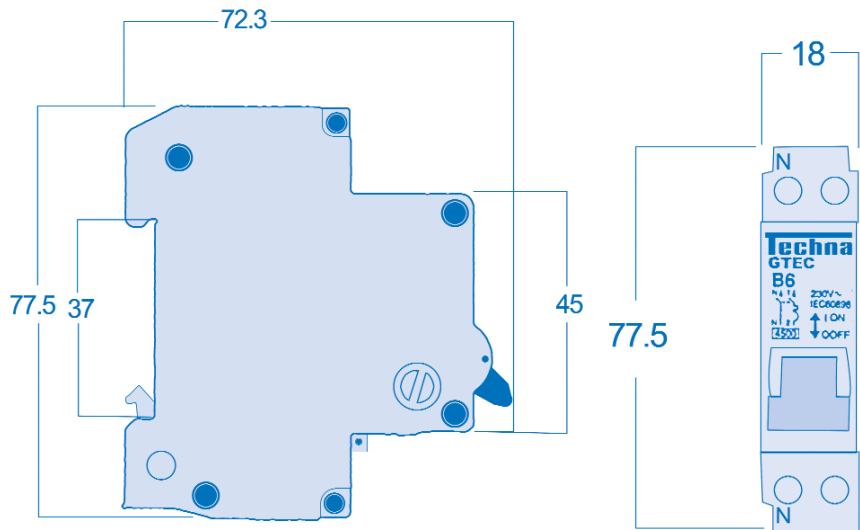
Specification:

POLES:	1, 2, 3, 4
WIDTH:	1.5 module (26.5mm)
RATINGS (A)	80, 100, 125
RATED VOLTAGE:	230/400V
BREAKING CAPACITY:	6 kA
TRIP CURVES:	B, C and D to EN60898
CABLE SIZE:	25mm ² - 35mm ²
TERMINAL TIGHTENING TORQUE:	2.3Nm - 3.5Nm

Gtec High-Current Ordering Scheme:



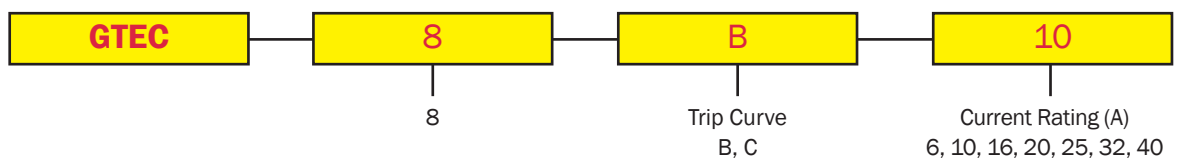
Gtec 4.5kA I_p+N MCBs



Specification:

POLES:	Single pole + switched neutral
WIDTH:	Single module (18mm)
RATING RANGE:	6 - 32A
RATED VOLTAGE:	230V
BREAKING CAPACITY:	4.5kA
TRIP CURVES:	B and C to EN60898
TERMINAL TIGHTENING TORQUE:	1.2Nm - 2Nm

Gtec 4.5kA I_p+N Ordering Scheme:



Gtec 100A Main Isolator Switch

TECHNA'S GTEC ISO range provides a 100A main disconnect switch in configurations of 1 to 4 poles.



Specification:

POLES:	1, 2, 3, 4
CURRENT RATING:	100A
RATED VOLTAGE	240/415V

Gtec Main Isolator Switch Ordering Scheme:

