

Circuit Breakers for Equipment - continued

Thermal PCB Mounting - Low Profile 1410 Series - continued

- Fast acting thermal circuit breaker for PCB mounting in a low profile housing with side fitted re-set slide
- Suitable for replacing fuses in many PCB applications
- Approved to **VDE, CSA** and Circuit Breaker for Equipment to **EN 60934** (CBE), **UL** Recognised.

Voltage rating 250Vac, 28Vdc Maximum interrupt current x In
 Insulation resistance 100MΩ @ 500Vdc Typical life 300 ops @ 2 x In

Current Rating	Internal Resistance	Mfrs. List No.	Order Code
1A	0.7Ω	1410-L210-L2F1-S02-1A	237-383
1.5A	0.5Ω	1410-L210-L2F1-S02-1.5A	237-395
2A	0.4Ω	1410-L210-L2F1-S02-2A	237-401
3.15A	0.06Ω	1410-L210-L2F1-S02-3.15A	237-425
5A	0.04Ω	1410-L210-L2F1-S02-5A	237-437
6.3A	0.03Ω	1410-L210-L2F1-S02-6.3A	237-449
8A	0.05Ω	1410-L210-L2F1-S02-8A	976-210

343246

Current Rating	Order Code	Price Each				
		1+	10+	25+	50+	+
1A	237-383	406.00	350.00	359.00	346.00	--
1.5A	237-395	406.00	350.00	359.00	346.00	--
2A	237-401	446.00	393.00	353.00	353.00	--
3.15A	237-425	406.00	350.00	359.00	346.00	--
5A	237-437	406.00	372.00	359.00	350.00	--
6.3A	237-449	446.00	393.00	353.00	353.00	--
8A	976-210	446.00	393.00	375.00	353.00	--

Thermal Panel Mounting



- Panel mounting single pole press to reset thermal circuit breaker with push-on connectors
- **VDE** and **CSA** approved, **UL** Recognised
- Typical applications: battery chargers, power supplies, motors, wheelchairs, stairlifts, etc.

H=32, W=14, D=27
 Panel cut-out=9.5 dia
 Tabs=6.3 x 0.8

Voltage rating 250Vac or 28Vdc
 Current rating trip current is 125% of rated current
 Tripping time in seconds at 21°C 100% - NO TRIP 200% - 5 to 25
 300% - 1.5 to 8 400% - 1 to 5

Insulation resistance 100MΩ
 Mfrs. List No. 1658-G21-02-P10-8A + Rating

204391

Current Rating	Order Code	Price Each				
		1+	10+	25+	50+	+
8A	954-0636	480.00	423.00	380.00	358.00	--
10A	954-0644	480.00	423.00	380.00	381.00	--
15A	954-0660	480.00	423.00	380.00	358.00	--
20A	954-0679	480.00	423.00	380.00	381.00	--
25A	954-0687	480.00	423.00	404.00	381.00	--

Thermal Panel Mounting-Subminiature



- Miniature thermal circuit breakers moulded in flame-retardant plastic
- Approved by **VDE, SEMKO, NEMKO, CSA, SEV OVE**, and Circuit Breaker for Equipment to **EN60934**
- Single pole action is manually resettable, and has a release limit of 102/130% of the nominal current rating
- **IP54** translucent splashcover and press to reset disc indicator disc also available
- Typical applications: Battery chargers, power supplies, motors and consumer products

H=19, W=11, D=27.6,
 Panel cut-out=9.5 dia.
 Tabs=2.8 x 0.8, 446-786=6.3 x 0.8

Voltage rating 250Vac, 48Vdc Max. interrupt rating 6 x In (0.1A to 2A)
 Current derating 10% for rise of 10°C 5 x In (3A to 10A)
 Test voltage 4000V for 1 minute Calibration temperature 23°C
 Insulation resistance 710MΩ (500V) Operating temperature -20°C to +60°C

Current Rating	Internal Resistance	Mfrs. List No.	Order Code
0.5A	3.3Ω ±5%	106-P30 0.5A	143-569
1A	0.9Ω ±5%	106-P30 1A	143-570
2A	0.25Ω ±20%	106-P30 2A	143-571
3A	0.11Ω ±20%	106-P30 3A	143-827
4A	0.07Ω	106-P30 4A	143-572
5A	0.05Ω	106-P30 5A	143-828
6A	0.05Ω	106-P30 6A	178-740
10A	0.05Ω	106-P10-10A	446-786
Splashproof cover		X201.285.01	178-741
Reset disc		Y301.059.01	178-742

204369

Current Rating	Order Code	Price Each				
		1+	10+	25+	50+	+
0.5A	143-569	488.00	430.00	386.00	385.00	--
1A	143-570	488.00	430.00	386.00	382.00	--
2A	143-571	488.00	430.00	386.00	386.00	--
3A	143-827	488.00	430.00	386.00	386.00	--
4A	143-572	488.00	430.00	386.00	361.00	--
5A	143-828	488.00	430.00	386.00	385.00	--
6A	178-740	488.00	430.00	411.00	386.00	--
10A	446-786	488.00	430.00	386.00	385.00	--
Splashproof cover	178-741	125.00	110.00	106.00	98.00	--
Reset disc	178-742	41.00	36.00	33.00	32.00	--

Thermal Panel Mounting with Switch



L=66.6 (in OFF position)
 Bezel=19 x 19
 Depth behind panel=47.5

Panel cut-out (double flat)=13.8 x 16 dia
 Panel thickness=0.8 to 1.6
 Tabs=6.3 x 0.8

- Single pole 'fuseholder size' thermal circuit breaker featuring a unique latching push button operation which allows the breaker to be switched ON or OFF
- Two colour button also provides visual indication by showing a white band when the breaker is in the 'OFF' or 'tripped' position
- Approved to **VDE, CSA, LRoS, BV, SEMKO** and Circuit Breaker for Equipment to **EN60934, UL** Recognised.
- Typical applications: Motors, transformers, solenoids, office machines and instrumentation

Voltage rating 250Vac, 28Vdc operating area 4000Vac mounting area 2000Vac
 Insulation resistance >100MΩ
 Typical life expectancy 10000 ops (0.5A to 3A) to 3A
 6000 ops (5A to 16A)
 Max. interrupt current 8 In (0.5A to 3A)
 10 In (5A to 16A)

Tripping Time @ 23°C
 Operating temperature 0°C to +55°C
 Rated Current 2 x In 3 x In 4 x In 5 x In 6 x In 8 x In 10 x In
 0.5A to 5A 13-46s 5.8-13s 3.9-7.5s 3.0-5.5s 2.2-4.4s 1.3-3.3s 0.9-2.6s
 10A to 16A 10-38s 4.3-7.5s 2.5-4.4s 1.3-3.2s 0.8-2.1s 0.56-1.0s 0.43-0.7s

Mfrs. List No. 110-F112-P1M1-xxA, where xx = current rating in amps.

Current Rating	Internal Resistance Ω	Order Code	Price Each			
			1+	10+	25+	50+
0.5A	4.5	248-460	872.00	747.00	677.00	654.00
1A	1.1	248-472	872.00	747.00	719.00	677.00
2A	0.25	248-484	872.00	747.00	677.00	643.00
3A	0.13	248-496	872.00	747.00	677.00	691.00
5A	0.05	248-502	872.00	747.00	677.00	657.00
10A	0.02	248-514	872.00	747.00	677.00	657.00
16A	0.02	248-526	872.00	747.00	719.00	689.00

204426

Current Rating	Internal Resistance Ω	Order Code	Price Each			
			1+	10+	25+	50+
0.5A	4.5	100-3728	872.00	747.00	677.00	650.00
1A	1.1	100-3729	872.00	747.00	719.00	691.00
2A	0.25	100-3730	872.00	747.00	677.00	650.00
3A	0.13	100-3731	872.00	747.00	677.00	691.00
5A	0.05	100-3733	872.00	747.00	719.00	691.00
10A	0.02	100-3734	872.00	747.00	719.00	691.00
16A	0.02	100-3735	872.00	747.00	677.00	650.00

Hydraulic - Magnetic



- Single pole hydraulic, magnetic circuit breaker with toggle actuation
- Medium delay characteristics
- Industry standard panel mounting
- Push-on connectors.
- Approved to **VDE** Circuit Breaker for Equipment standard **EN60934, CSA, LRoS, BV** and **QPL, UL** Recognised
- Typical applications: Control equipment, communication systems, transportation and power supplies

H=50.8, W=15, D=50.8, Fitting Hole Pitch=42.15
 Mounting Thread=M3, Max Depth=4.5

Voltage rating 240Vac, 80Vdc
 Typical life 10000 operations at 1x1N inductive load
 Temperature range -40°C to +85°C
 Dielectric strength 3000Vac
 Insulation resistance ≥100MΩ @ 500Vdc
 Max. interrupt rating 3500A
 Shock 100g (11 ms) at 0.8xIn to **IEC68-2-27, test EA**