

## Description

Four pole switch or three pole switch/thermal circuit breaker (S-type TO CBE to EN 60934) with trip-free, snap action mechanism and red/green two button operation. Designed for snap-in panel mounting. Integral splash water protection to meet protection degree IP 66 in the operating area (option).

Optional with under voltage release module.

Please enquire for versions with auxiliary contact module, mechanical slide interlock, or magnetic trip coil.

Complies with CBE standard EN 60934 (IEC 934).

## Typical applications

High-pressure cleaners, shredders, pumps, power saws, electric tools, motors, processing systems

## Ordering information

Type No.	3140	four pole switch or three pole switch/circuit breaker
Mounting	F	snap in frame
Frame		
1	standard	
2	splash water protected version	
Number of poles		
3	3 pole, thermally protected	
7	4 pole, thermally protected on 3 poles only	
C	3 pole, unprotected	
D	4 pole, unprotected	
Frame mounting		
0	panel thickness .04-.25 in	
Terminal design		
P7	quick connect terminals 2x.11in (2x2.8x0.8mm)	
N7	as P7, but for switch only	
H7	as P7, but for terminals x.1 terminal screws M3.5	
G7	as H7, but for switch only	
Characteristic curve		
T1	thermal, 1.01-1.4 I <sub>N</sub>	
Q1	switch only	
Actuator style		
S	2 push buttons (ON/OFF)	
Actuator color		
GRX	green/red	
Current ratings		
	0.1...16 A	
3140 - F 1 3 0 - P7 T1 - S GRX - 10 A		

## Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance per pole ( $\Omega$ )	Current rating (A)	Internal resistance per pole ( $\Omega$ )
0.1	94	3	0.0595
0.2	24	3.5	0.0565
0.3	12	4	0.0435
0.4	5.30	4.5	0.0435
0.5	4.20	5	0.0325
0.6	2.90	6	0.0215
0.8	1.50	7	0.0165
1	0.9	8	0.0165
1.2	0.80	10	<0.02
1.5	0.45	12	<0.02
2	0.27	14	<0.02
2.5	0.0785	16	<0.02



## Technical data

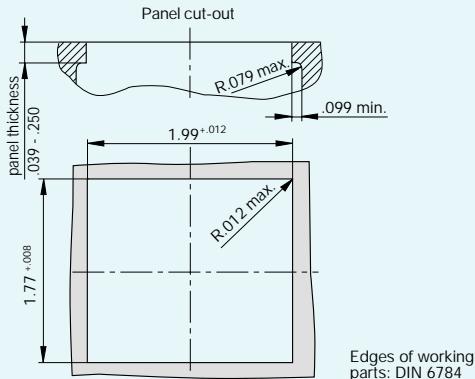
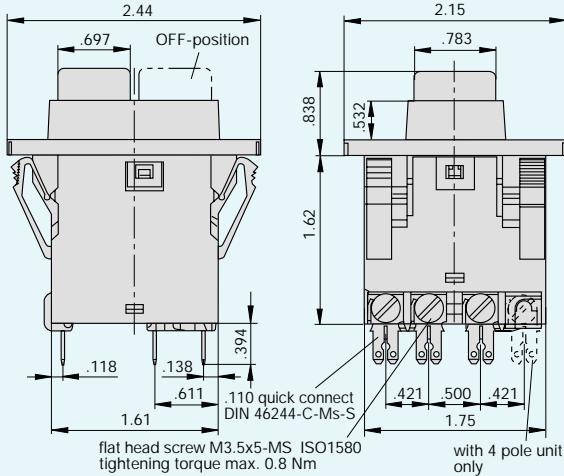
Voltage rating	AC 240/415 V		
Current rating range	0.1...16 A		
Typical life	10,000 operations		
Ambient temperature	-30...+60 °C (-22...+140 °F)		
Insulation co-ordination (IEC 664 and 664A)	Rated impulse withstand voltage 2.5 kV	Pollution degree 2	reinforced insulation in operating area
Dielectric strength (IEC 664 and 664A)	Test voltage AC 3000 V		
	operating area between poles (3 pole)	AC 1500 V	
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I <sub>cn</sub>	0.1... 2 A	10 x I <sub>N</sub>	
	2.5...16 A	150 A	
Interrupting capacity I <sub>N</sub> (UL 1077)	I <sub>N</sub> 0.1...16 A	U <sub>N</sub> 3 AC 250 V	3 pole 3500 A
Degree of protection (IEC 529/DIN 40050)	operating area IP 40 (IP 66 with water splash protection) terminal area IP 00		
Vibration	5 g (57-500 Hz), ±0.38 mm (10-57 Hz) to IEC 68-2-6, test Fc, 10 frequency cycles/axis		
Shock	20 g (11 ms) to IEC 68-2-27, test Ea		
Corrosion	96 hours at 5 % salt mist, to IEC 68-2-11, test Ka		
Humidity	240 hours at 95 % RH, to IEC 68-2-3, test Ca		
Weight	approx. 68 g		

## Approvals

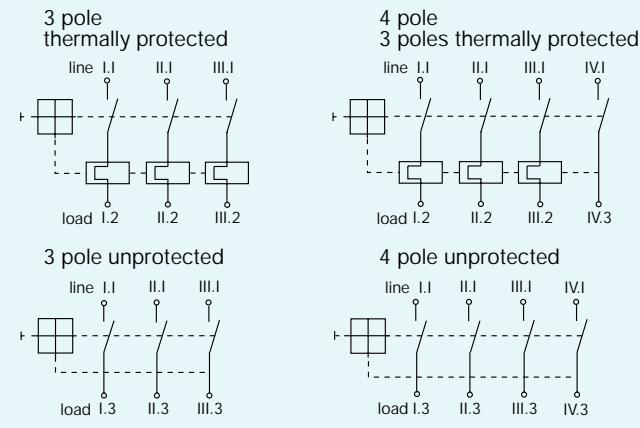
Authority	Voltage rating	Current rating
VDE (EN 60934)	AC 240/415 V	0.1...16 A

# ET-A® Thermal Overcurrent Circuit Breaker 3140

## Dimensions

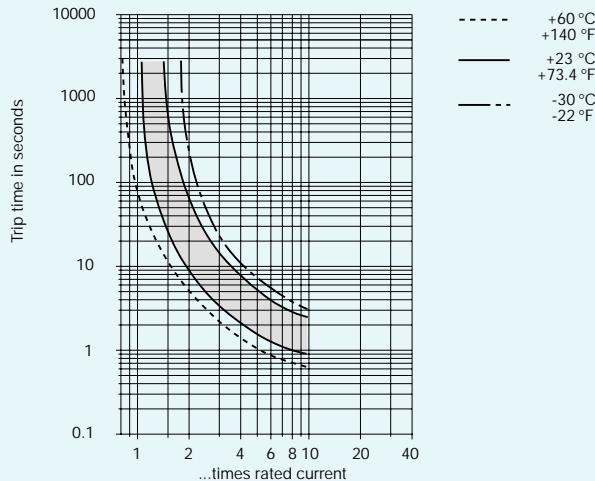


## Internal connection diagram

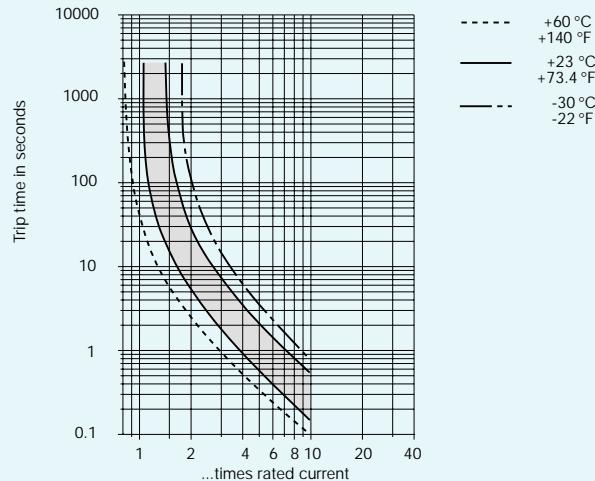


## Typical time/current characteristics

0.1...2 A



2.5...16 A



## Installation drawing

