Description

The 3120 switch serves for switching devices and machinery on or off. It is available in a range of design versions and meets the requirements of the relevant standard IEC/EN 61058 for switches for appliances. Type 3120 is also available as a circuit breaker for equipment protection in accordance with IEC/EN 60934 (see data sheet thermal circuit breaker 3120-F).

Product characteristics:

- rocker or push button actuation
- single pole and double pole versions
- convenient snap-in mounting
- international approvals

Optional:

- illumination
- water splash protection
- push-in terminals

Upon request:

Switch with undervoltage release module:

This version protects the user against bodily harm as an inadvertent start-up of machinery after a power failure is reliably excluded.

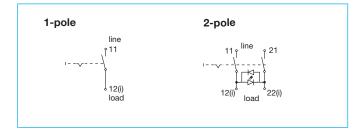
Typical applications

Medical and laboratory equipment, apparatus and machine construction, professional tools, household and garden appliances, offices machines, audio equipment, machine tools

Approvals

Approval authority	Standard	Voltage rating	Current rating	Approval logos
VDE	IEC/EN 61058	AC 240 V DC 50 V	16 (4) A 16 A:	
CQC	GB 17701	AC 240 V DC 50 V	0.1 - 20 A	(W)

Schematic diagrams





Technical of	data		
Voltage ratings		AC 240 V, DC 50 V	
Interrupting ca	apacity:		
AC 240 V:	16 (4) A	25,000 switching cycles	
DC 50 V:	16 A	50,000 switching cycles	
Ambient temperature		055 °C	
Insulation coordination		2.5 kV /2 reinforced insulation at	
(IEC 60664)		operating area	
Dielectric stre	ngth		
Operating area		test voltage AC 3,000 V	
Pole to pole (2-pole)		test voltage AC 1,500 V	
Insulation resistance		> 100 MΩ (DC 500 V)	
Degree of prof	tection		
(IEC 60529)		IP40	
Operating area		with water splash cover IP54 or IP66	
Terminal area		IP00	
Terrilliai area		with water splash cover IP64	
Environmental	tests		
(IEC 60068)			
Vibration		8 g (57-500 Hz), ± 0.61 mm (10-57 Hz)	
Shock		30 g (11 ms)	
Corrosion		96 hours at 5 % salt mist	
Humidity		240 hrs in 95 % RH	
Mass		approx. 33 g (2-pole)	
		approx. 27 g (1-pole) approx. 42 g (2-pole with PT terminals)	
		approx. 72 g (2-pole with 1 1 terminals)	

All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of improved design, performance and cost effectiveness, Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.

Order numbering code

Type No. 3120 switch with rocker actuation **Mounting** F3 snap-in, mounting cut-out 50.5 x 21.5 mm snap-in, mounting cut-out 44.5 x 22 mm Number of poles 0 2-pole 6 1-pole Style 1 standard with actuator guard with water splash protection (IP54) Terminal design PT push-in terminals N7 blade terminals 6.3 x 0.8 G7 as N7, terminals 11 and 21 with additional flat head screws M3.5 Version Q1 switch only **Actuator style** W rocker **Rocker colour/illumination** black opaque without illumination white opaque without illumination 14. R red translucent with LED illumination green translucent with LED illumination Marking Q: 0 and 1 moulded in Q X Illumination voltage range (= operating voltage) DC 12 V 2 DC 24 V AC 115 V 3 AC 230 V **Current rating** 16 A: 3120 - F 5 0 4 - N7 Q1 - W01Q - 16 A ordering example

Type No. 3120 switch with push button actuation Mounting flange mounting, mounting cut-out 50.5 x 26 mm, suitable for water splash cover X221 619 01 (IP66) snap-in, mounting cut-out 50.5 x 21.5 mm **Number of poles** 0 2-pole 6 1-pole Style frame with 2 push buttons Terminal design PT push-in terminals N7 blade terminals 6.3 x 0.8 G7 as N7, terminals 11 and 21 with additional flat head screws M3.5 Version Q1 switch only Actuator style s two push buttons Colour of push button/illumination green/red without illumination GRX **GRXG** green translucent with LED illumination/red opaque without

illumination

DC 12 V DC 24 V

3 AC 115 V 4 AC 230 V

- 16 A

(= operating voltage)

Current rating

Illumination voltage range

ordering example

Order numbering code

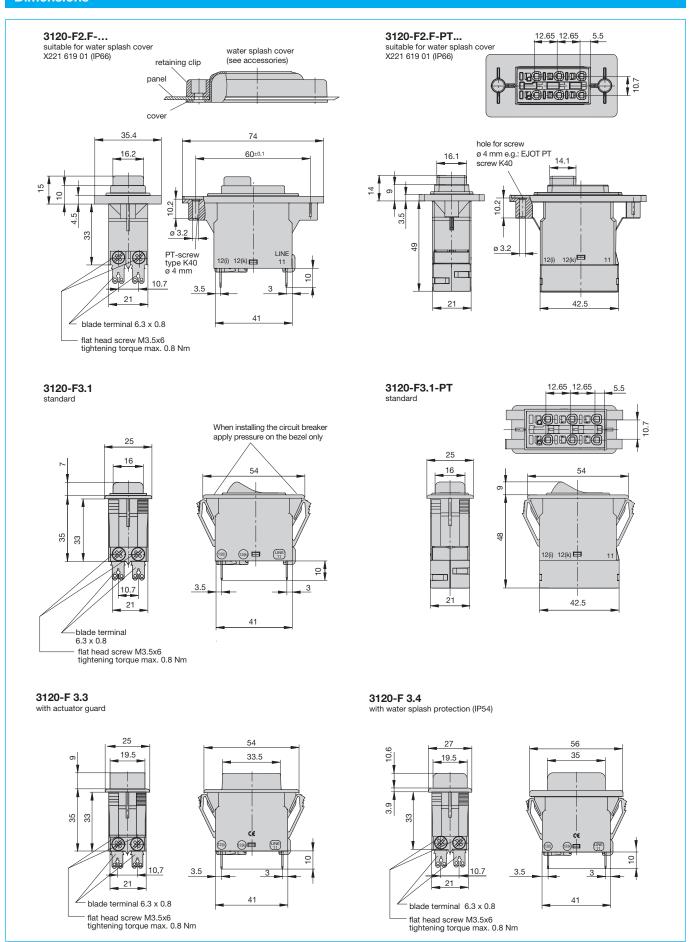
Note

Important: 3120-F series is replaced by 3120-N Please refer to E-T-A homepage for further details:

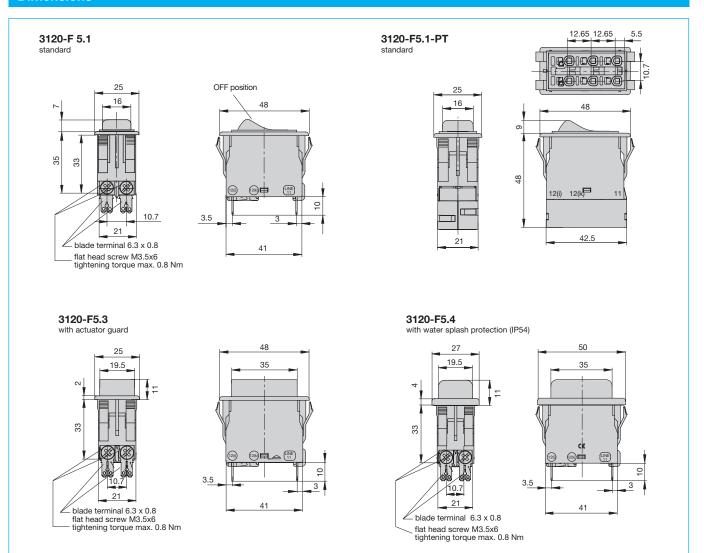
3120 - F 2 0 F - N7 Q1 - SGRX

https://global.e-t-a.com/news/news_from_e_t_a/thermal_circuit_breaker_3120_n_all_in_one_solution/

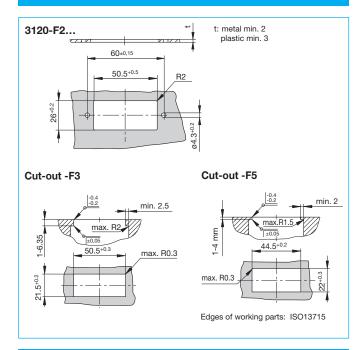
Dimensions



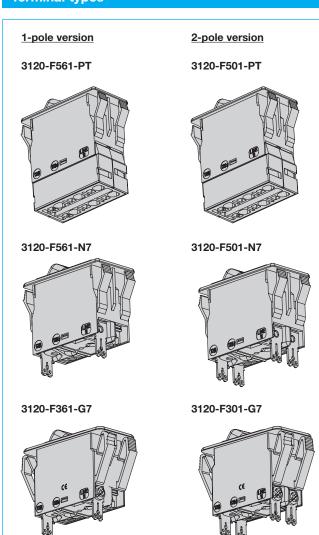
Dimensions



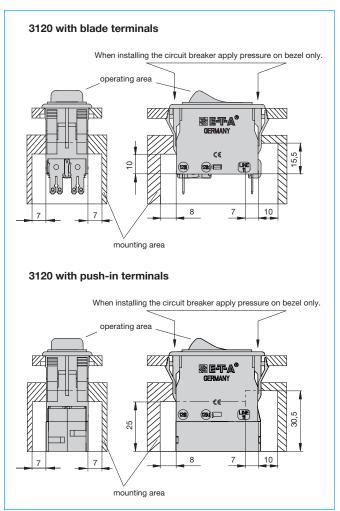
Cut-out dimensions



Terminal types



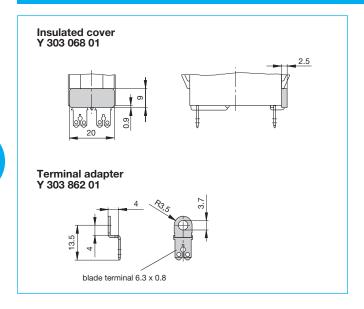
Installation drawing

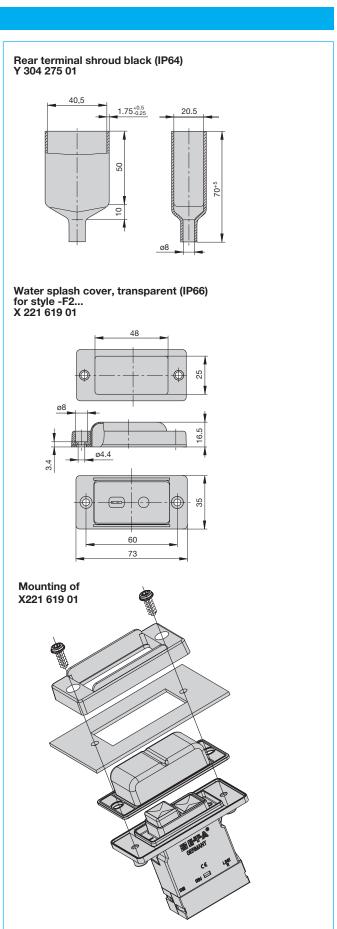


Cable cross sections PT terminals

cable	cross section with direct push-in wiring	
rigid	14 mm ² (stripping length: 10 mm)	
flexible with wire end ferrule (with or without plastic sleeve)	0.52.5 mm ²	
cable	cross section when opening the push-in terminals	
rigid	0.54 mm ² (stripping length: 10 mm)	
flexible without wire end ferrule	0.52.5 mm ²	

Accessories

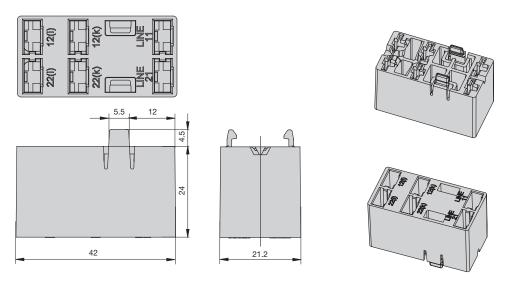




Accessories

Plug-in connector (for connection types N7 and G7) Y 31214001

Connecting cables can be pre-wired. Two retaining clips ensure a tight fit.



Renefits:

- Reduced installation time and costs for final assembly
- Quick replacement of devices

Note:

Delivery without receptacles.

Dimensions of receptacles (width 6.3 mm) are in accordance with DIN 46340 part 3, shape A. Examples of suitable receptacles: Stocko RSB 7916 F6,3-1 / Klaucke type 2730 / Vogt type 3832d.67 / TE FASTON Terminals 250 Series / Delphi Packard 58 Series

Plug-in connector mounted on circuit breaker:

