⑧ 區 千 ペ 3120-F...Q1 switch only

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.

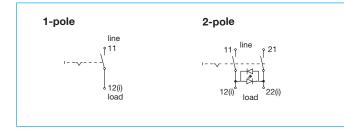
Typical applications

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	

Schematic diagrams



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.



Technical data

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

1

◎ E F A 3120-F...Q1 switch only

	ch with rocker actuation				
_	unting				
F3 F5					
	Number of poles				
	0 2-pole				
	6 1-pole				
	Style				
	1 standard				
	3 with actuator guard				
	4 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				
	01. black opaque without illumination				
	02. white opaque without illumination				
	14. R red translucent with				
	LED illumination				
	19. G green translucent with				
	LED illumination				
	Marking				
	F Q X D F X Q: 0 and 1 moulded i				
	Illumination voltage range				
	(= operating voltage)				
	1 DC 12 V				
	2 DC 24 V				
	3 AC 115 V				
	4 AC 230 V				
	Current rating				
	<u>16 A:</u>				

Order numbering code

Order numbering code

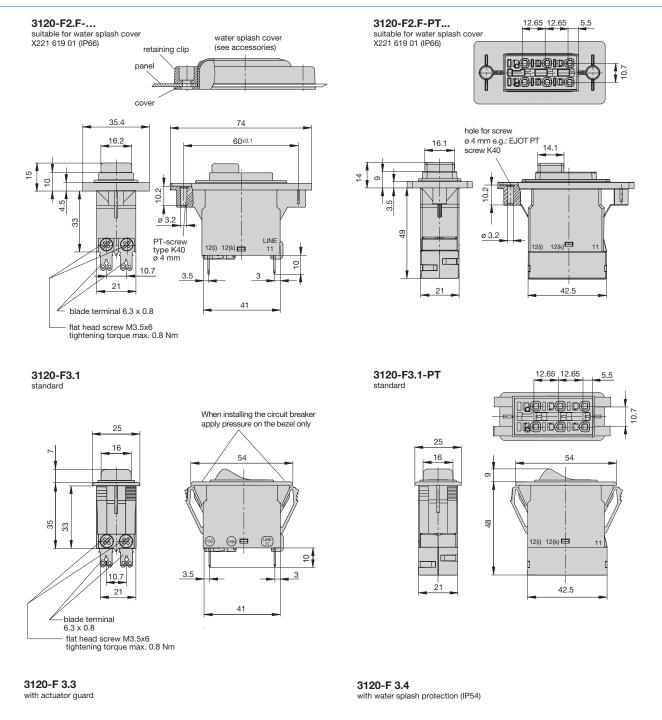
Type No.					
120 switch with push button actuation					
Mounting					
F2 flange mounting, mounting cut-out 50.5 x 26 mm,					
suitable for water splash cover X221 619 01 (IP66)					
F3 snap-in, mounting cut-out 50.5 x 21.5 mm					
Number of poles					
0 2-pole					
6 1-pole					
Style					
F frame with 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 t	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					
GRX green/red without illuminatio	n				
GRXG green translucent with LED					
illumination/red opaque with	out				
illumination					
Illumination voltage range					
(= operating voltage)					
1 DC 12 V					
2 DC 24 V					
3 AC 115 V					
4 AC 230 V					
Current rating					
<u>16 A</u>					
120 - F 2 0 F - N7 Q1 - SGRX - 16 A ordering example	Э				

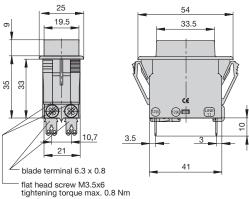
Note

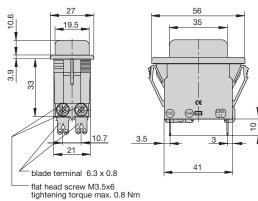
Important: 3120-F series is replaced by 3120-N Please refer to E-T-A homepage for further details:

https://global.e-t-a.com/news/news_from_e_t_a/thermal_ circuit_breaker_3120_n_all_in_one_solution/

Dimensions

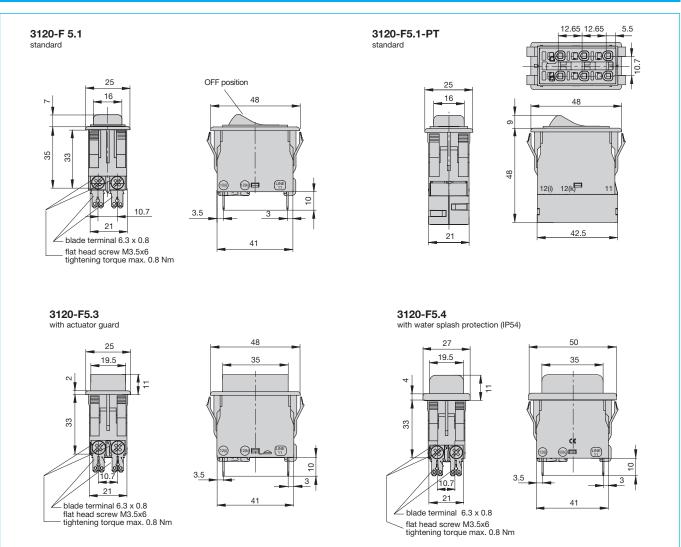






www.e-t-a.de

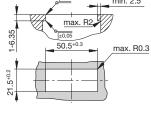
◎ E 小 3120-F...Q1 switch only



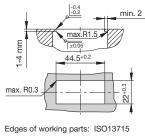
Dimensions

⑧ 區 ● ▲ 3120-F...Q1 switch only

3120-F2... t: metal min. 2 plastic min. 3 **Cut-out -F3 Cut-out -F3 Cut-out -F5**

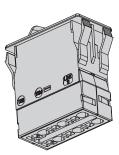


Cut-out dimensions

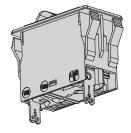


Terminal types

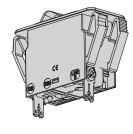
1-pole version 3120-F561-PT



3120-F561-N7



3120-F361-G7

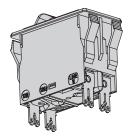




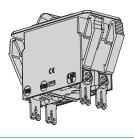
3120-F501-N7

2-pole version

3120-F501-PT

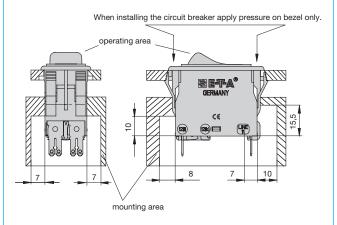


3120-F301-G7



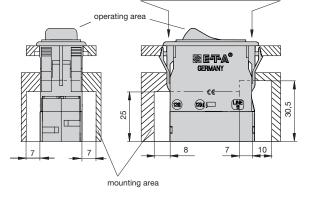
Installation drawing

3120 with blade terminals



3120 with push-in terminals



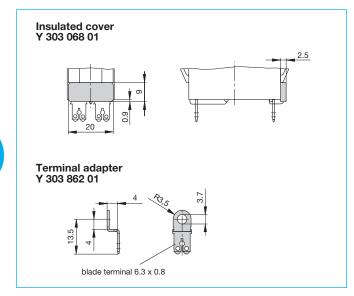


Cable cross sections PT terminals

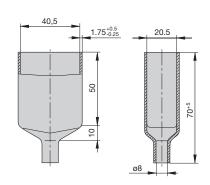
cable	cross section with direct push-in wiring
rigid	14 mm ² (stripping length: 10 mm)
flexible with wire end ferrule (with or without plastic sleeve)	0.52.5 mm ²
cable	cross section when opening the push-in terminals
rigid	0.54 mm ² (stripping length: 10 mm)
flexible without wire end ferrule	0.52.5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

◎ E T A 3120-F...Q1 switch only

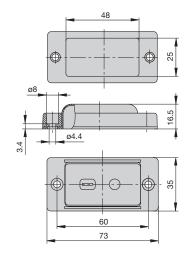
Accessories

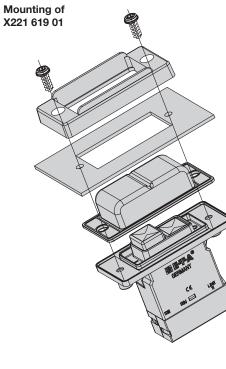


Rear terminal shroud black (IP64) Y 304 275 01



Water splash cover, transparent (IP66) for style -F2... X 221 619 01



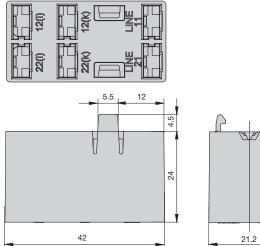


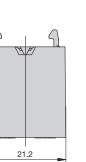
1

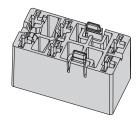
Accessories

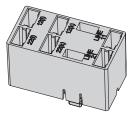
Plug-in connector (for connection types N7 and G7) Y 31214001

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









Benefits:

• Reduced installation time and costs for final assembly

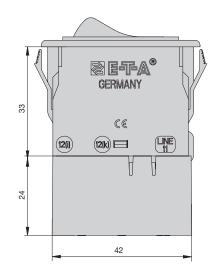
• Quick replacement of devices

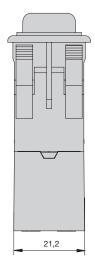
Note:

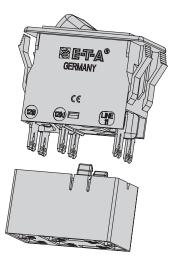
Delivery without receptacles.

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:







X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circuit Breaker Accessories category:

Click to view products by ETA manufacturer:

Other Similar products are found below :

 CSC-403PS
 8T1-D-11A
 8T1-E-125
 B151-7184-L
 NEB10
 8C1-C-721
 8T1-E-115
 8T1-E-275
 8T1-E-278
 506-11315-001
 3803221

 X10506BF
 NES
 9-1393249-0
 802-ESB50UL489
 XFPB-4
 30.329
 X22261102
 CX2.5/4/O
 Y30019003
 PS-1006
 618.6335.069
 BAC03

 JX2.5/4
 JX2.5/6
 JX2.5/5
 HSP6/10U
 DMRBU BLACK BOX
 DB16/BU
 CM2.5S2
 932146100
 930120000
 601.1231.909
 3PRG1

 3PLBR4LU
 351.5900.149
 311.2850.340
 2624.0
 17BSSV
 1-1423696-8
 LS3-WH
 BAC12
 30.617
 8T1-E-114
 SF06-5,08
 PLLA3
 2LP199

 ZG20-2
 3PSML401
 3PSML402
 3PSML402
 3PSML402
 3PSML402
 3PSML401