

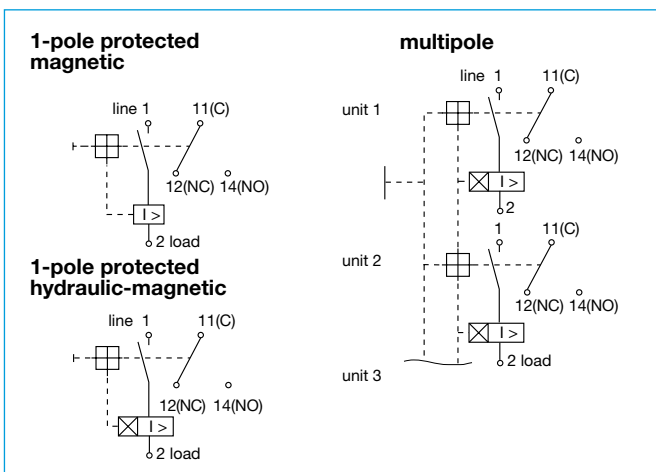
Ordering information

Type No.	8340 magnetic circuit breaker with toggle actuator
Mounting	F flange mounting
Configuration	1 with mounting nuts 6-32 UNC 4 with mounting nuts M3 9 snap-in frame
Number of poles	1 single pole protected 2 two pole protected 3 three pole protected
	} magnetic and hydraulic magnetic delayed
Panel hardware	0 without panel hardware
Terminal design (main contact)	K4 screw terminals M5 recommended for $I_N > 20$ A P1 blade terminals A6.3-0.8 mm (QC.250) (≤ 35 A)
Characteristic curve *)	Characteristic curve, instantaneous: F1 DC F2 AC 50/60 Hz Short delay: K1 DC K2 AC 50/60 Hz Medium delay: M1 DC M2 AC 50/60 Hz Long delay: T1 DC T2 AC 50/60 Hz
Actuator colour/design	A black, long toggle K black, short toggle Z black, without toggle, with slot (only 1-pole)
other colours to special order	
Marking on actuator	0 without marking L I-O; ON-OFF N I-O; ON-OFF (IN on housing top)
Auxiliary contacts	H0 without auxiliary contacts H1 with auxiliary contacts, gold-flushed H2 auxiliary contacts, gold-flushed on one pole only (multipole)
Auxiliary contact function	4 1 change over contact
Auxiliary contact terminal design	2 blade terminal 2.8-0.5 mm
Current ratings	0.02...50 A
8340 - F 1 1 0 - P1 M1 - A L H1 4 2 - 30A ordering example	

Approvals

Authority	Standard	Rated voltage	Current ratings
VDE	IEC / EN 60934	AC 240/415 V AC 240 V DC 80 V	0.02 A...30 A 0.02 A...30 A 0.02 A...50 A
UL	UL 1077	AC 250 V DC 80 V DC 80 V	0.02 A...30 A 0.02 A...50 A 100 A (2 poles in parallel)
CSA	C22.2 No 235	AC 250 V DC 80 V	0.02 A...30 A 0.02 A...30 A
CQC	GB 17701	AC 240/415 V AC 240 V DC 80 V	0.02 A...30 A 0.02 A...30 A 0.02 A...50 A
QPL Sweden Defence Material Admin.	MIL-C-55629	AC 240 V DC 50 V AC 240 V AC 240 / 415 V	1 A...30 A (8340-F410) 1 A...30 A (8340-410) 1 A...30 A (8340-F420) 1 A...30 A (8340-F430)

Internal connection diagrams



*) Other characteristic curves upon request (e.g. pulse delayed, for high inrush currents or capacitive loads)

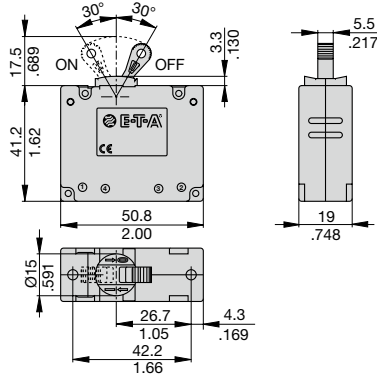
Preferred types

Preferred types	Standard current ratings (A)													
	1	2	3	5	8	10	12	16	20	25	30	40	50	
8340-F410-P1K1-KNH0-	x	x	x	x	x	x	x	x	x					
8340-F410-P1K1-KNH142-	x	x	x	x	x	x	x	x	x					
8340-F410-P1M1-KNH0-	x	x	x	x	x	x	x	x	x					
8340-F410-P1M1-KNH142-	x	x	x	x	x	x	x	x	x					
8340-F410-K4K1-KNH0-										x	x	x	x	
8340-F410-K4K1-KNH142-										x	x	x	x	
8340-F410-K4M1-KNH0-										x	x	x	x	
8340-F410-K4M1-KNH142-										x	x	x	x	

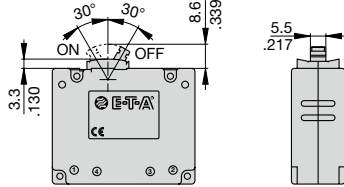
Dimensions

**Flange mounting
Configuration: F4**

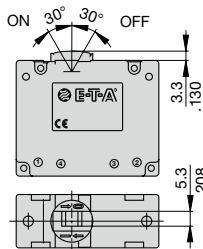
Actuator: long toggle



Actuator: short toggle

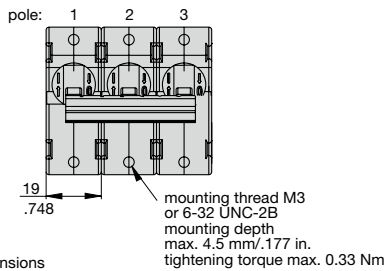


Actuator: without toggle, with slot

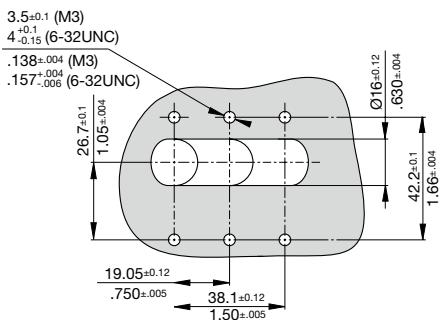


Applicable for nominal dimensions without direct tolerance indication:
DIN ISO 286 ± IT13

number of poles: 1-3

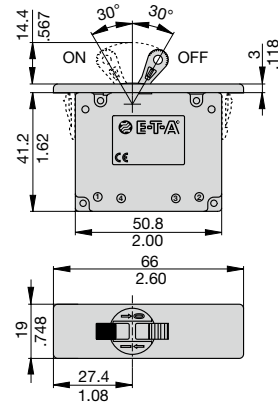


Cut-out dimensions
max. panel thickness: 3 mm

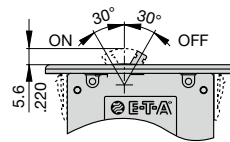


Configuration: F9

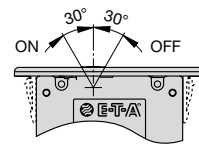
Actuator: long toggle



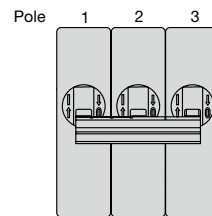
Actuator: short toggle



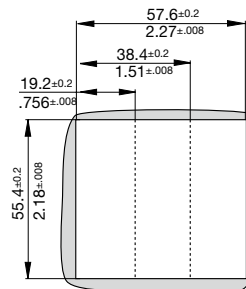
Actuator: without toggle, with slot



number of poles: 1-3



Cut-out dimensions
max. panel thickness: 2 ± 0.1 mm or 4 ± 0.15 mm
(snap-fit)



Applicable for nominal dimensions without direct tolerance indication:
DIN ISO 286 ± IT13

This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)

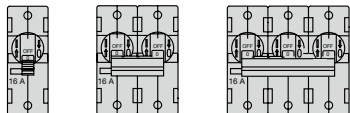


Actuator configuration

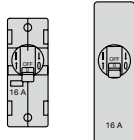
Actuator design

number of poles: 1 - 3
Configuration: F4

Actuator long

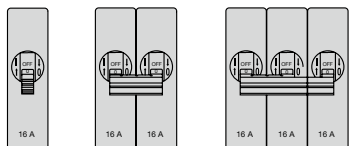


Actuator short



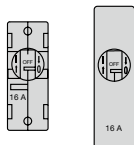
number of poles: 1 - 3
Configuration: F9

Actuator long



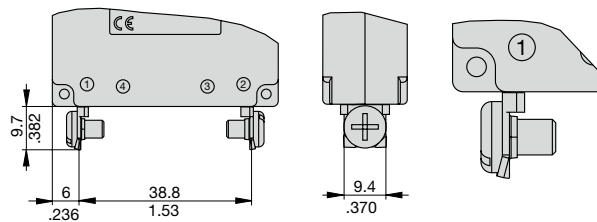
number of poles: 1
Configuration: F4 / F9

Actuator: Z (black, without toggle, with slot)

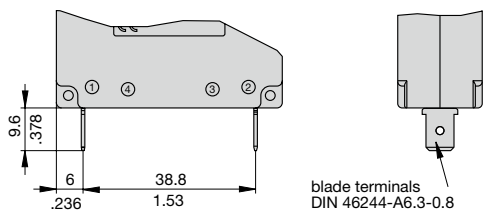


Terminal design / Dimensions

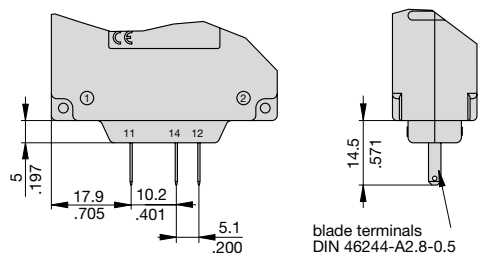
K4 screw terminals M5
tightening torque max. 1.2 Nm



P1 blade terminals

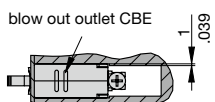


Auxiliary contacts

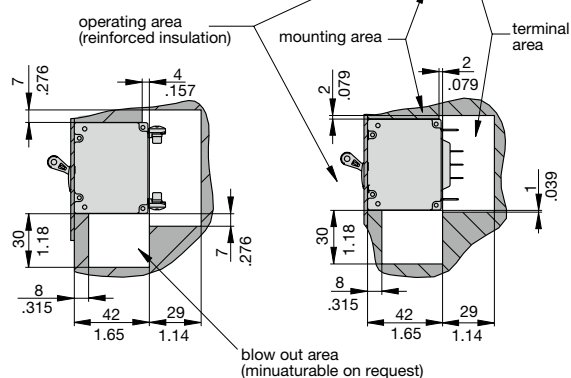
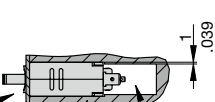


Installation drawing

Terminal design K



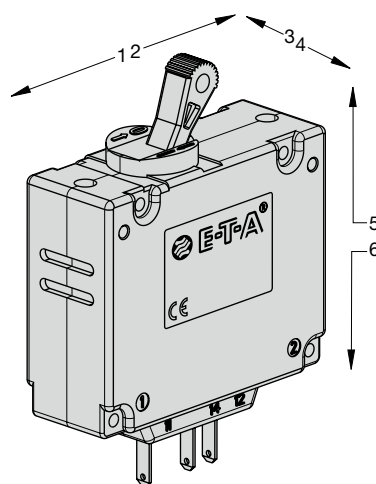
Terminal design P



Trip time values indicated for front mounting on a vertical even surface

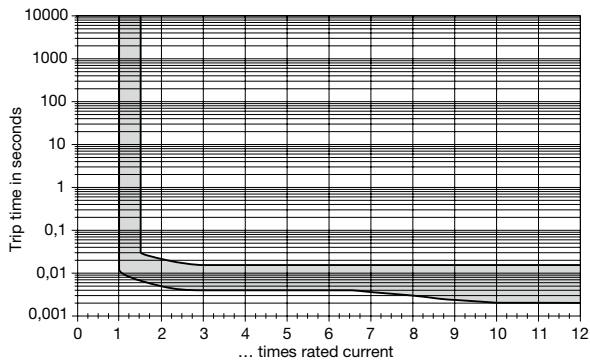
This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

Shock directions / Mounting attitudes

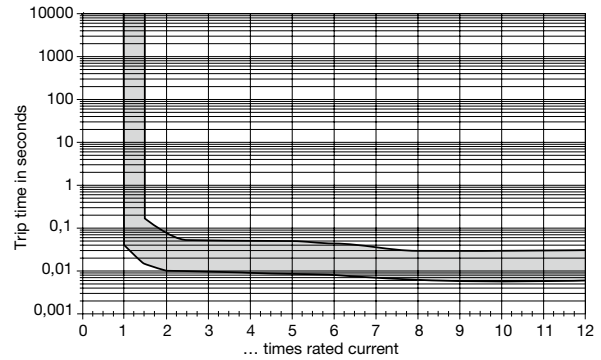


Typical time/current characteristics at 23 °C / +73.4 °F

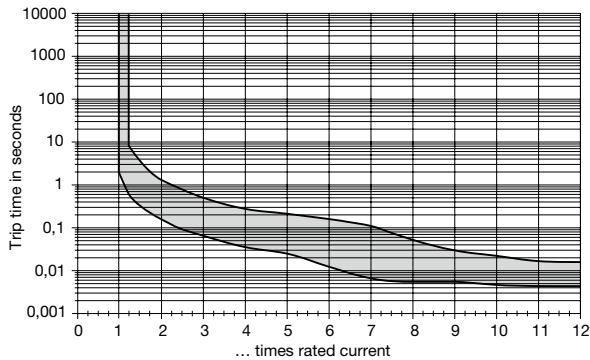
Curve F1 (instantaneous) for DC



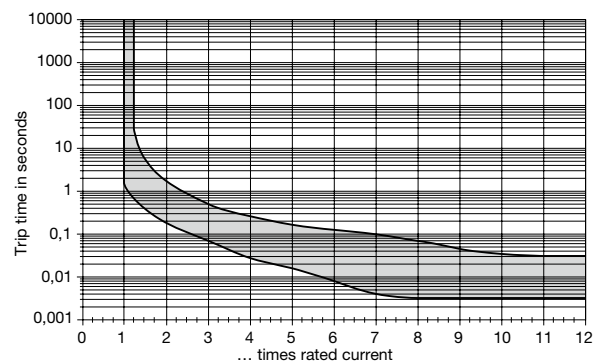
Curve F2 (instantaneous) for AC



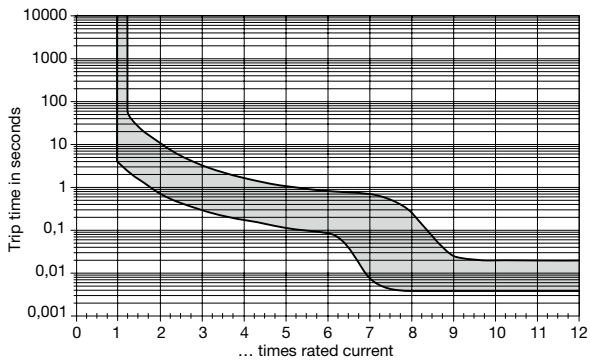
Curve K1 (short delay) for DC



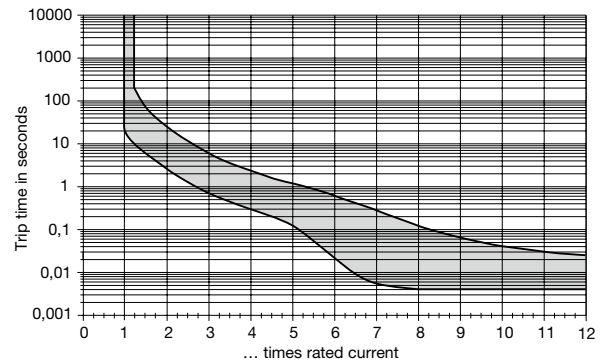
Curve K2 (short delay) for AC 50/60 Hz



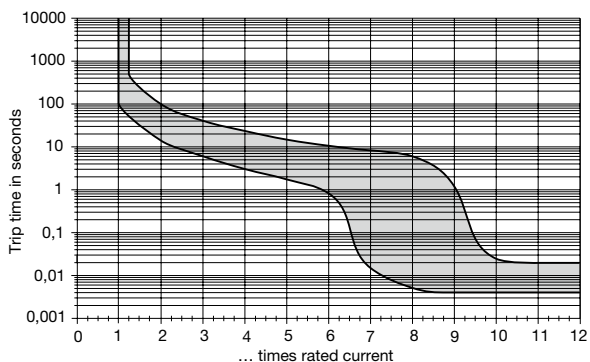
Curve M1 (medium delay) for DC



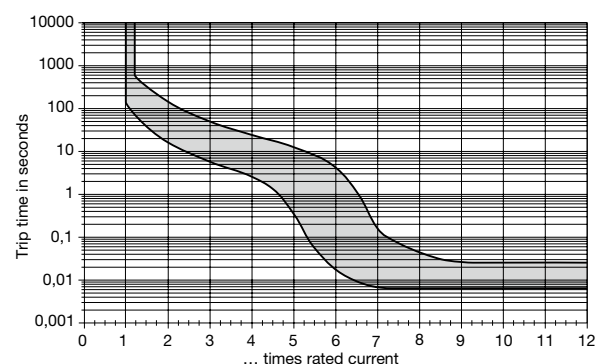
Curve M2 (medium delay) for AC 50/60 Hz



Curve T1 (long delay) for DC



Curve T2 (long delay) for AC 50/60 Hz



N.B. All curves will only be maintained if the escutcheon is mounted on a vertical surface. Ambient temperature or mounting side-by-side does not influence the trip curve, derating is not required. The breakers may trip in the event of current peaks < 0.003 sec. For these applications we offer a mechanical pulse delay – please enquire.

Other characteristic curves upon request (e.g. pulse delayed, for high inrush currents or capacitive loads).

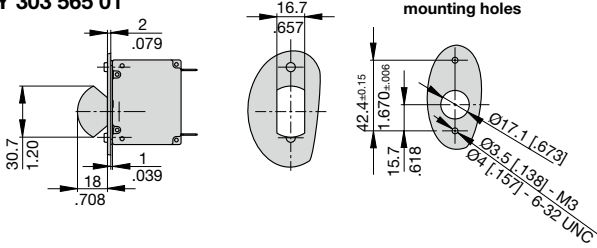
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Accessories

**Splash cover with mounting plate and screws
for 8340-F1.. and 8340-F4**

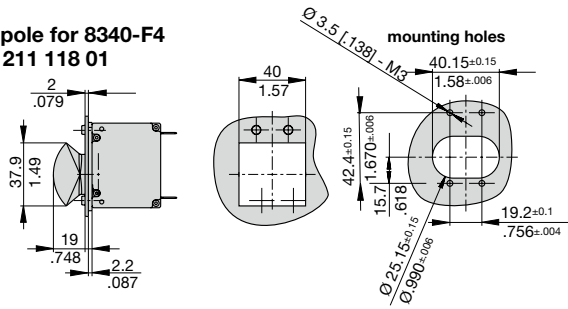
1 pole

Y 303 565 01



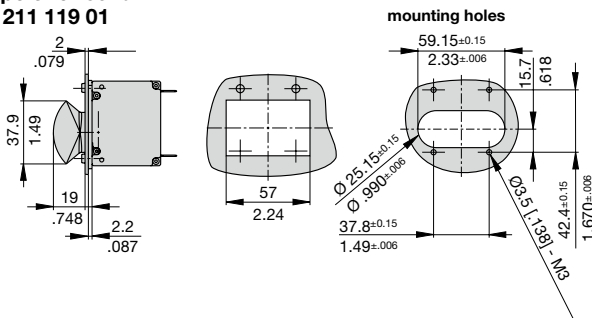
2 pole for 8340-F4

X 211 118 01



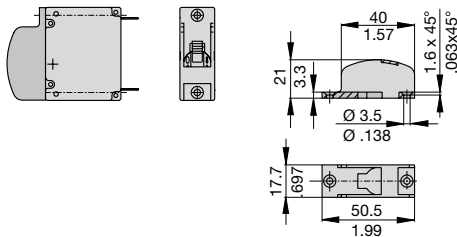
3 pole for 8340-F4

X 211 119 01



Toggle guard for 8340-F1.. and 8340-F4

Y 307 250 01



This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.