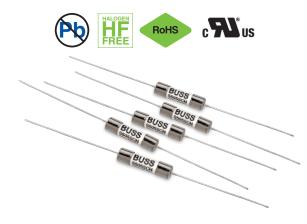
BUSSMANN SERIES

S505SCH

5 x 20 mm Time-delay, high l²t, axial lead, ceramic tube fuses



Product description

- · Time-delay, high breaking capacity
- High I2t
- Nickel-plated brass end cap construction
- 5 x 20mm physical size
- · Halogen free, lead free, RoHS compliant

Applications

Primary circuit protection:

- · Power supplies
- · LED lighting
- · LED/LCD televisions
- · Appliances and white goods
- · Printers

Agency information

 cURus Recognition file number: E19180, Guide JDYX2/JDYX8

CQC: 14012118443, 14012118444

- KC-Mark: File SU05030-14002
- TUV: R50294952

Ordering

• Specify packaging prefix and part number as shown

Packaging prefixBK/
Part number
S505SCH-1-R

Packaging prefixes

- BK/20 parts in a carrier, 5 carriers in a box
- TR2/1500 parts per reel, tape width 52mm
- TR3/1500 parts per reel, tape width 54mm



Electrical characteristics

I <u>n</u>	1.5l min minute	2.1I _n max minute	2.75I _n min ms	max s	4I min ms	max s	10l min ms	max ms
3.15A	60	30	750	80	95	5	10	150
5A-6.3A	60	30	750	80	150	5	10	150

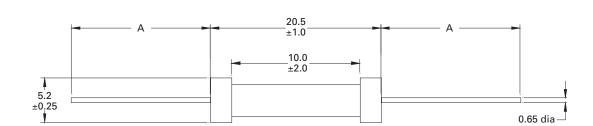
Product specifications

Part number ⁵	Voltage rating AC	Interuppting rating at rated voltage (50 Hz) AC¹ (amps)	Typical DC cold resistance $(\Omega)^2$	Typical pre-arcing I ² t (A ² s) ³	Typical voltage drop (mV) ⁴	cURus	кс	coc	TUV
S505SCH-3.15-R	250	1500	0.017	120	67	Х	Х	Х	Х
S505SCH-5-R	250	1500	0.014	160	90	Х	Х	Х	Х
S505SCH-6.3-R	250	1500	0.010	330	85	Х	Х	Х	X

¹ Interrupting ratings 1A to 10A were measured at 70% to 80% PF on AC.

Dimensions-mm

Α	
BK: 38.1±0.38	
TR2: 15.0 typ	
TR3: 16.0 typ	



² Typical DC cold resistance measured at <10% of rated current .

^{3.} Typical I²t value is measured at 10 times the rated current under DC.

^{4.} Typical voltage drop is measured at 20°C ambient temperature at rated current .

^{5.} Part number definition: S505SCH-xxx-R

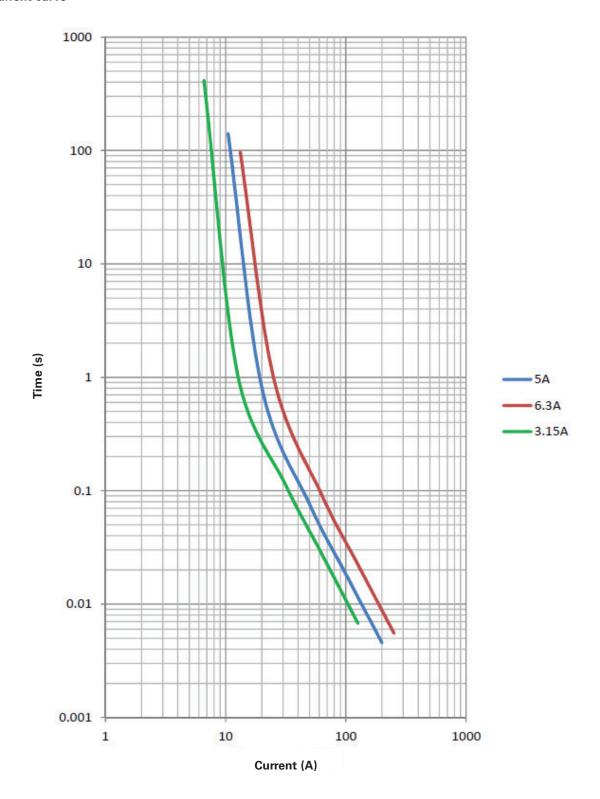
S505 = Product code

SCH = Single cap- high I2t

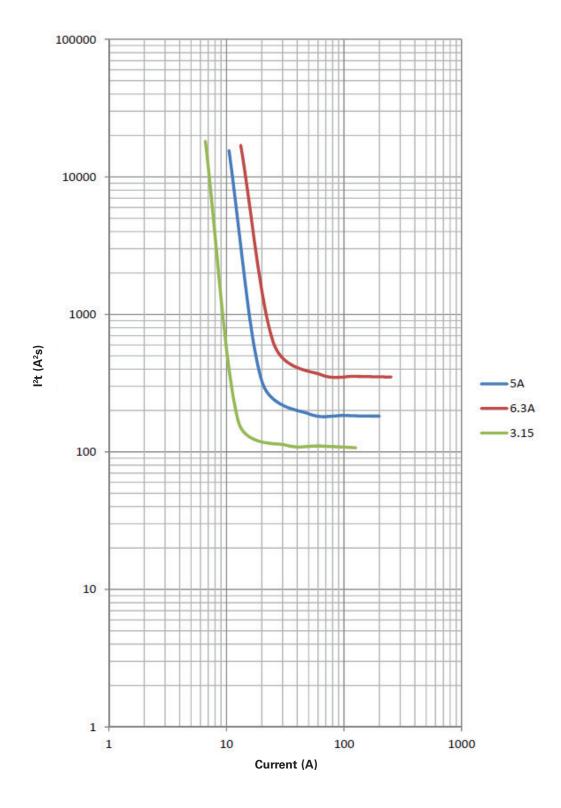
xxx = Ampere rating

⁻R = RoHS compliant

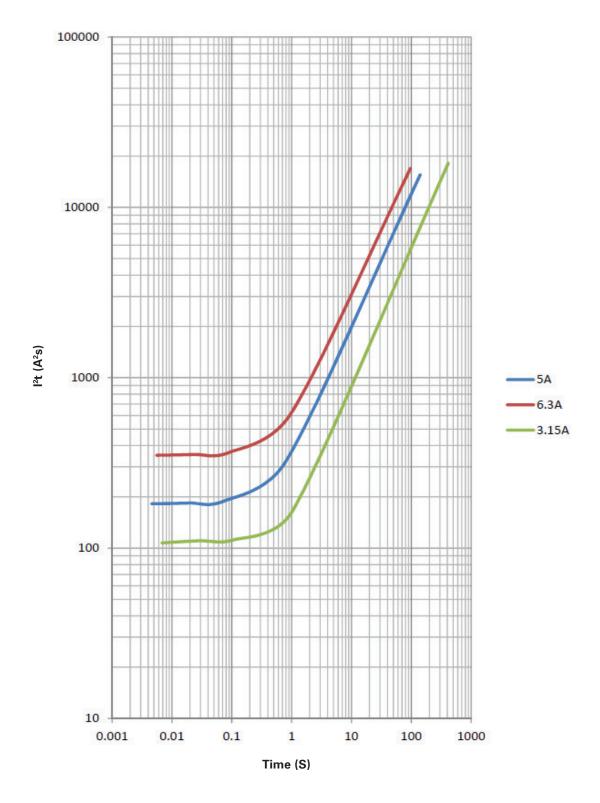
Time vs. current curve



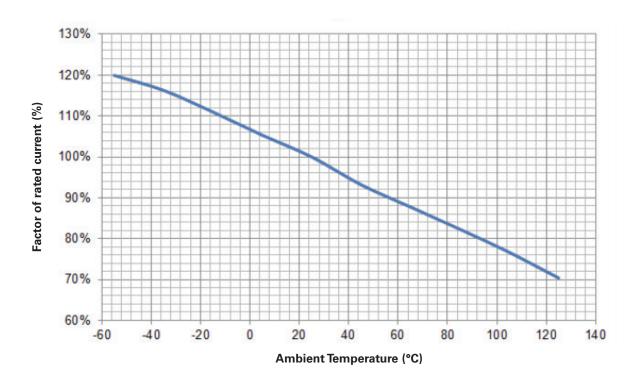
l²t vs. current curve



l²t vs. time curve



Temperature derating curve



Environmental data

Operating temperature: -55°C to 125°C (with derating)

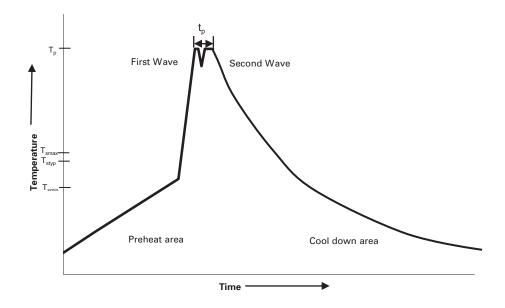
Thermal shock: MIL-STD- 202G, Method 107G, test condition B (5 cycles - 65°C to 125°C)

Vibration: MIL-STD- 202G, method 201A

Humidity: MIL-STD- 202G, method 103B, test condition A

Salt spray: MIL-STD- 202G, method 101E, test condition B

Wave solder profile



Reference EN 61760-1:2006

Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder		
Preheat	• Temperature min. (T _{smin})	100°C	100°C		
	• Temperature typ. (T _{styp})	120°C	120°C		
	• Temperature max. (T _{smax})	130°C	130°C		
	• Time (T _{smin} to T _{smax}) (t _s)	70 seconds	70 seconds		
Δ preheat to max Temperature		150°C max.	150°C max.		
Peak temperature (Tp)*		235°C – 260°C	250°C – 260°C		
Time at peak temperature (t_p)		10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave		
Ramp-down ra	ate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max		
Time 25°C to	25°C	4 minutes	4 minutes		

Manual solder

350°C, 4-5 seconds. (by soldering iron), generally manual, hand soldering is not recommended.

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