

SAFETY PRODUCTS

# Estrong Emergency Stop Data Sheet

Estrong is an emergency stop used to stop unsafe machine function in order to prevent an accident or reduce its consequences.

Comes standard with a stainless steel enclosure and IP69K rating. Option with a LED for status.



Optimum Interface

**Robust Design**

Ideally suited for industries that have special demands, such as food processing or the chemical industry.



Continuous operation

**LED Diagnostics**

Models with integrated LED diagnostics reduce downtime when troubleshooting.

**Reliable in extreme conditions**

IP69K rating and stainless steel enclosure.



Safety and Protection

**Special Lid Mechanism**

Contacts inside the Estrong go into an open or safe state if the cover is not secured properly to the enclosure.

**Ordering Information**

Description	Material Housing	Order code
Estrong, ½ NPT	Stainless Steel	2TLA050220R1020
Estrong, ½ NPT, with protection shroud	Stainless Steel	2TLA050220R1422
<b>Estrong, ½ NPT, 24VDC LED</b>	<b>Stainless Steel</b>	<b>2TLA050220R1222</b>
Estrong, ½ NPT, 115VAC LED	Stainless Steel	2TLA050220R1223
Estrong, ½ NPT, 230VAC LED	Stainless Steel	2TLA050220R1224

NOTE: Anything in **bold** is typically stocked.

**Accessories**

Description	Material Housing	Order code
½ NPT Cable Gland	Stainless Steel	2TLA050040R0001

NOTE: Anything in **bold** is typically stocked.

Additional information can be found in the [Estrong Product Manual](#).

**Technical Data**

<b>Manufacturer</b>	
Address	ABB Electrification Sweden AB / JOKAB SAFETY Varlabergsvägen 11 SE-434 39 Kungsbacka Sweden
<b>Electrical characteristics</b>	
Contact type	IEC/EN60947-5-1 double break typ Zb
Contact material	Silver
Termination	Clamp up to 2,5 mm <sup>2</sup> Conductors
Utilization category	AC15 A300 3A 240VAC 3A/120VAC 6A/24VDC 2.5A inductive
Thermal current (I <sub>th</sub> )	10A
Rated insulation/withstand voltages	500 VAC/2500 VAC
Short circuit overload protection	Fuse externally 10 A (FF)
<b>General</b>	
Enclosure classification	IP67, IP69K
Ambient temperature	-25...+80°C
Size	See manual
Shock Resistance	15 g 11 ms
Enclosure/Cover	Stainless Steel 316
Size	See manual
Mounting Positions	Any
Mounting Bolts	4 x M4
Torque Settings	Mounting M5 4,0 Nm Lid T20 Torx M4 1,5 Nm Terminals 1,0 Nm
Conduit Entries	3 x ½ NPT
Vibration	IEC 68-2-6, 10-55 Hz+1 Hz, Excursion: 0.35 mm, 1 octave/min
<b>Safety-related characteristic data and Conformity</b>	
Conformity	European Machinery Directive 2006/42/EC EN ISO 12100:2010, EN ISO 13850:2008, EN 60204-1:2006+A1:2009 EN 60947-1:2007+A1:2011, EN 60947-5-1:2004+A1:2009, EN 60947-5-5:1997+A1:2005
EN ISO 13849-1	Up to PL e, Cat. 4 depending on system architecture
EN 62061	Up to SIL3 depending on system architecture
Safety data	
Mechanical reliability B10d	1 500,000 operations at 100 mA load
PFHD	<1.0 x 10 <sup>-7</sup>
Proof test interval (life)	21 years
MTTFd	214 years (8 cycles per hour/24 hours per day/365 days per year)
Certifications	TÜV, cULus

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Information with regard to UL 508

Use 12AWG copper conductors only  
Electrical Rating: A300 48W5  
Type 1 Enclosure  
Max. Switching Current / Volt / Amp: 120V 6A (720VA  
break) PF 0.38, 240V 3A (720VA break) PF 0.38

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