

## Switches

## Standard Family Code LTHH10441EA02



## Description

Contactor single interruption in air, electromagnetic control by starter power system plus saving resistor. Single state function.

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

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Type	LTE 4-400
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical <sup>1</sup>
Control Voltage Rating Uc [Vdc]	24 - 36 - 48 - 72 - 110 <sup>1</sup>
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Block Type	PBX
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	SC26989
Layout Drawing	D48479
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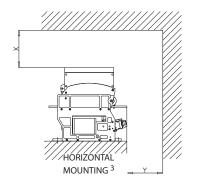
<sup>&</sup>lt;sup>1</sup> To be specified in order phase.

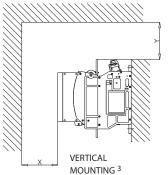
Electrical Characteristics	
Rated Operational Voltage [Vac / Vdc]	900 / 1800 / 3600 <sup>1</sup>
Max Operational Voltage [Vac / Vdc]	4000
Rated Insulation Voltage [V]	4000
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	900
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	800
DC-Rated Operational Current (τ=15ms) [A]	
3600V	330
1800V	750
900V	1125
DC-Maximum Breaking Capacity (τ=5ms) [A]	
3600V	500
1800V	1080
900V	1620
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]	
3600V	800
1800V	1500
900V	2000
Component Category / Operational Frequency Class	A2 / C3
Short Circuit Withstand Capacity for 5ms [kA]	16
Critical Current Range [A]	<6(U > 1500V <sub>dc</sub> )
Fault Making Capacity [kA]	9.6
Blow Out Circuit Type	Indirect coil
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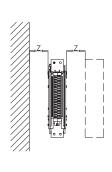
<sup>&</sup>lt;sup>2</sup> Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated Operational Voltage X Y Z				
1800V	Metal Parts	120	50	50
	Plastic Parts	50	30	20

Minimum clearances [mm] from:				
Rated Operational Voltage X Y Z		Z		
3600V	Metal Parts	200	50	50
	Plastic Parts	100	50	30







<sup>&</sup>lt;sup>3</sup> OTHER MOUNTING POSITIONS NOT ALLOWED

## Switches

Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 <sup>6</sup>
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	13

Control Circuit	
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption ( $U_c$ and $T = 20$ °C) at Pick Up - when Holding [W]	300 - 50
Mechanical Operation Time (U₂ and T = 20°C) when Closing - Opening [ms]	100 - 45
Time Constant (L/R) at Pick Up - when Holding [ms]	20 - 36
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [Vac / Vdc]	250
Rated Current [A]	10
Minimum Switching Current at 16V <sub>dc</sub> [mA] <sup>4</sup>	20
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	$Tx (-50^{\circ}C \div +75^{\circ}C)^{5}$
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	2000

 $<sup>^4</sup>$  In clean and dry conditions  $^5$  In according to IEC50125-1

