

## LTHH02501\*A02

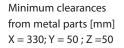
Туре	LTHH 250
Number of Poles	1 NO
Mounting Position	Horizontal - Vertical
Control Voltage Rating [Vdc]	12 ÷ 220
Auxiliary Contact Blocks	Max 2 (1 NO + 1 NC)
Block Type*	SJ - LJ
Arc chute Material	Ceramic
Contact tips material*	S6

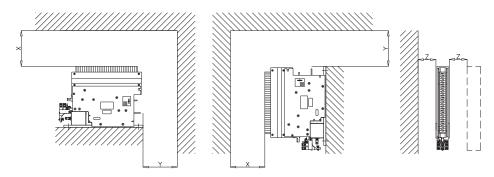
\* For details please refer to dedicated technical note

## Description

Contactor single interruption in air, electromagnetic control by full power coil. Single state functioning. Reference standard IEC 60077.

Rated Operational Voltage [V* / V*c]3000Max Operational Voltage [V* / V*c]4000Rated Insulation Voltage [V]4000Conventional Free Air Thermal Current [A] at 75°C250DC-Rated Operational Current ( $\tau$ =15ms) [A]2703000V2701500V540DC-Maximum Breaking Capacity ( $\tau$ =15ms) [A]3000V3000V3501500V700AC-Maximum Breaking Capacity (cos\u00eq=0,8; 50Hz) [A]7003000V4001500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONEFault Making Capacity [kA]3.6	Electrical Characteristics	
Rated Insulation Voltage [V]       4000         Conventional Free Air Thermal Current [A] at 75°C       250         DC-Rated Operational Current (τ=15ms) [A]       270         3000V       270         1500V       540         DC-Maximum Breaking Capacity (τ=15ms) [A]       350         3000V       350         1500V       700         AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]       700         3000V       400         1500V       800         Component Category / Operational Frequency Class       A2 / C3         Short Circuit Withstand Capacity for 5ms [kA]       6         Critical Current Range [A]       NONE	Rated Operational Voltage [Vac / Vdc]	3000
Conventional Free Air Thermal Current [A] at 75°C       250         DC-Rated Operational Current (τ=15ms) [A]       270         3000V       270         1500V       540         DC-Maximum Breaking Capacity (τ=15ms) [A]       350         3000V       350         1500V       350         1500V       700         AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]       700         AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]       400         1500V       400         1500V       800         Component Category / Operational Frequency Class       A2 / C3         Short Circuit Withstand Capacity for 5ms [kA]       6         Critical Current Range [A]       NONE	Max Operational Voltage [Vac / Vdc]	4000
DC-Rated Operational Current (τ=15ms) [A]     270       3000V     540       1500V     540       DC-Maximum Breaking Capacity (τ=15ms) [A]     350       3000V     350       1500V     700       AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]     700       AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]     400       3000V     400       1500V     800       Component Category / Operational Frequency Class     A2 / C3       Short Circuit Withstand Capacity for 5ms [kA]     6       Critical Current Range [A]     NONE	Rated Insulation Voltage [V]	4000
300V       270         1500V       540         DC-Maximum Breaking Capacity (τ=15ms) [A]       350         3000V       350         1500V       700         AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]       700         AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]       400         3000V       400         1500V       800         Component Category / Operational Frequency Class       A2 / C3         Short Circuit Withstand Capacity for 5ms [kA]       6         Critical Current Range [A]       NONE	Conventional Free Air Thermal Current [A] at 75°C	250
1500V540DC-Maximum Breaking Capacity (τ=15ms) [A]3503000V3501500V700AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]4003000V4001500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	DC-Rated Operational Current (r=15ms) [A]	
DC-Maximum Breaking Capacity (τ=15ms) [A]3000V3501500V700AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]4003000V4001500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	3000V	270
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1500V700AC-Maximum Breaking Capacity (cos \$=0,8; 50Hz) [A]4003000V4001500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	DC-Maximum Breaking Capacity ( $\tau$ =15ms) [A]	
AC-Maximum Breaking Capacity (cos $\phi$ =0,8; 50Hz) [A] 3000V 1500V Component Category / Operational Frequency Class Short Circuit Withstand Capacity for 5ms [kA] Critical Current Range [A] NONE	3000V	350
3000V4001500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	1500V	700
1500V800Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	AC-Maximum Breaking Capacity (cos $\phi$ =0,8; 50Hz) [A]	
Component Category / Operational Frequency ClassA2 / C3Short Circuit Withstand Capacity for 5ms [kA]6Critical Current Range [A]NONE	3000V	400
Short Circuit Withstand Capacity for 5ms [kA]   6     Critical Current Range [A]   NONE	1500V	800
Critical Current Range [A] NONE	Component Category / Operational Frequency Class	A2 / C3
	Short Circuit Withstand Capacity for 5ms [kA]	6
Fault Making Capacity [kA] 3.6	Critical Current Range [A]	NONE
	Fault Making Capacity [kA]	3.6
Blow Out Circuit Type Indirect	Blow Out Circuit Type	Indirect

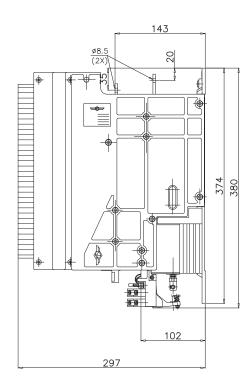


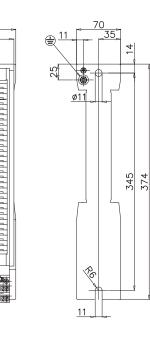






Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 <sup>6</sup>
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	8.5
Control Circuit	
Control Voltage Range	0.7U∈ ÷ 1.25U∈
Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W]	35 - 35
Mechanical Operation Time (U <sub>c</sub> and $T = 20^{\circ}$ C) when Closing - Opening [ms]	100 - 25
Time Constant (L/R) at Pick Up - when Holding [ms]	30 - 80
Electrical Connections	Fast-On 6.35x0.8mm - Screw M4
Auxiliary Contacts	
Tips material	Solid Silver (Gold plating opt)
Rated Operational Voltage [Vac / Vdc]	250
Rated Current [A]	10
Minimum Switching Current at 16V <sub>d</sub> [mA]	20
Electrical Connections	Fast-On 6.35x0.8mm - Screw M3
Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	-40°C ÷ +75°C
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	1500





70

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