

Standard Family Code LTC002501*B02



Description

Contactor with double interruption in air, electromagnetic control by full power coil. Single state functioning.

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Туре	LTCS 250 or LTCH 250
Number of Poles	1 NC
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating Uc [Vdc]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 (1 NO + 1 NC)
Block Type	SJ
Arc chute Material	Polyester Resin - Ceramic ¹
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Layout Drawing (Polyester Resin)	D48543
Layout Drawing (Ceramic)	D49064

¹ To be specified in order phase.

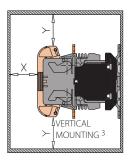
Electrical Characteristics				
Rated Operational Voltage [Vac/Vdc]	440 / 900	440 / 900 / 1800 ¹		
Max Operational Voltage [Vac/Vdc]	20	00		
Rated Insulation Voltage [V]	20	00		
Conventional Free Air Thermal Current [A] at 40°C ²	25	0		
Conventional Free Air Thermal Current [A] at 75°C ²	20	00		
DC-Rated Operational Current (τ =15ms) [A]	Polyester Resin arc chute	Ceramic arc chute		
1800V	16	20		
900V	65	100		
400V	130	200		
DC-Maximum Breaking Capacity (τ =5ms) [A]				
1800V	25	30		
900V	130	150		
400V	195	225		
AC-Maximum Breaking Capacity (cos ϕ =0,8; 50Hz) [A]				
1800V	60	72		
900V	250	320		
400V	320	400		
Component Category / Operational Frequency Class	A2 /	A2 / C3		
Short Circuit Withstand Capacity for 5ms [kA]	4	4		
Critical Current Range [A]	DC Revers	DC Reverse current		
Fault Making Capacity [kA]	2.4			
Blow Out Circuit Type	Permanen	Permanent Magnet		

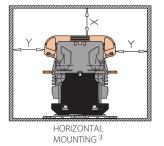
Blow Out Circuit Type

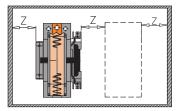
² Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated (Operational Voltage	Х	Y	Ζ
900	Metal Parts	80	80	20
	Plastic Parts	50	50	0
Minimum clearances [mm] from:				

Minimum clearances [mm] from:				
Rated 0	Operational Voltage	Х	Y	Ζ
1800	Metal Parts	120	120	30
	Plastic Parts	50	50	20







³Other mounting positions not allowed, reduced distances should be approved by MS.



Switches

Standard Family Code LTC002501*B02

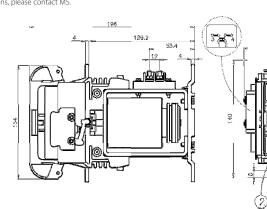
Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	2.5
Control Circuit	
Control Voltage Range	0.7Uc ÷ 1.25Uc
Power Consumption (U _c and T = 20°C) at Pick Up - when Holding [W]	25 - 25
Mechanical Operation Time (U _c and $T = 20^{\circ}$ C) when Closing - Opening [ms]	50 - 20
Time Constant (L/R) at Pick Up - when Holding [ms]	25 - 70
Electrical Connections	Fast-On 6.35x0.8mm
Auxiliary Contacts	
Rated Operational Voltage [Vac / Vac]	250
Conventional Free Air Thermal Current [A] at 40° C	10
Tips material Rated Current [A]	Silver Alloy (Optional: Golden Plated)
Minimum Let-Through at 24/72/110V₀c [mA] ⁴	20(10)/15(7.5)/10(5)
Electrical Connections	Low voltage connector AMP20Pins

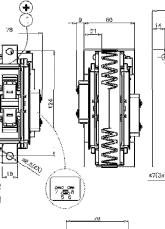
Environmental Condition	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁵
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	2000

⁵ In according to IEC50125-1

⁴ Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condiotions, please contact MS.

Polyester Resin

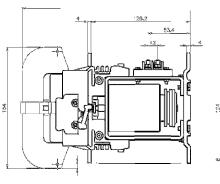


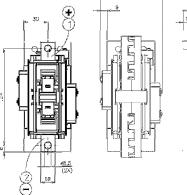




A2

Ceramic







Microelettrica Scientifica



This publication may be subject to alteration without prior notice. Therefore, a printed copy of this document may not be the latest revision. Please contact your local representative for the latest update. The trademarks MS Microelettrica Scientifica, Knorr and Knorr-Bremse as well as the figurative mark "K" are registered. Copyright © Knorr-Bremse AG and Microelettrica Scientifica SpA - all rights reserved, including industrial property rights application. Knorr-Bremse AG and Microelettrica Scientifica SpA retain any power of disposal, such as for copying and transferring.