

## Standard Family Code LTHS03201\*A02



## Description

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

Reference Standard IEC 60077, IEC 61992 and IEC 60947.

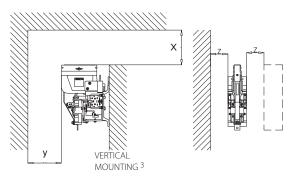
Туре	LTHS 320
Number of Poles	1 NO
Mounting Position	Vertical
Control Voltage Rating Uc [Vdc]	24 - 36 - 48 - 72 - 110 <sup>1</sup>
Auxiliary Contact Blocks	2x (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	S6
Electric Diagram	-
Layout Drawing	D52486

<sup>1</sup> To be specified in order phase.

Electrical Characteristics			
Rated Operational Voltage [Vac / Vdc]	900		
Max Operational Voltage [Vac / Vdc]	1000		
Rated Insulation Voltage [V]	2000		
Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>	320		
Conventional Free Air Thermal Current [A] at 75°C <sup>2</sup>	300		
DC-Rated Operational Current ( $\tau$ =15ms) [A]			
1000V	270		
900V	300		
DC-Maximum Breaking Capacity ( $\tau$ =5ms) [A]			
1000V	360		
900V	400		
AC-Maximum Breaking Capacity (cos $\phi$ =0,8; 50Hz) [A]			
1000V	500		
900V	500		
Component Category / Operational Frequency Class	A2 / C3		
Short Circuit Withstand Capacity for 5ms [kA]	8		
Critical Current Range [A]	NONE		
Fault Making Capacity [kA]	4.8		
Blow Out Circuit Type	Indirect coil with arcing contact		

<sup>2</sup> Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated Operational Voltage		Х	Y	Ζ
900V	Metal Parts	100	50	30
9000	Plastic Parts	50	30	20



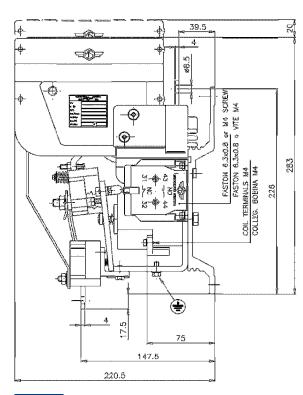
Other mounting positions not allowed, reduced distances should be approved by MS.



Mechanical Characteristics	
Mechanical Endurance (cycles)	2x10 <sup>6</sup>
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	4.8
Control Circuit	
Control Voltage Range	0.7U₅ ÷ 1.25U₅
Power Consumption (U <sub>c</sub> and T = 20°C) at Pick Up - when Holding [W]	25 - 25
Mechanical Operation Time (U <sub>c</sub> and $T = 20^{\circ}$ C) when Closing - Opening [ms]	110 - 30
Time Constant (L/R) at Pick Up - when Holding [ms]	60 - 80
Electrical Connections	Fast-On 6.35x0.8mm
Auxiliary Contacts	
Rated Operational Voltage [Vac / Vdc]	250
Conventional Free Air Thermal Current [A] at 40° C	10
Tips material Rated Current [A]	Silver Alloy (Optional: Golden Plated)
Minimum Let-Through Current at 24/72/110V₄ [mA] <sup>4</sup>	20(10)/15(7.5)/10(5)
Electrical Connections	Fast-On 6.35x0.8mm
Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
	T ( 1000 - 7500)
Operational Temperature Range	Tx (-40°C ÷ +75°C) <sup>5</sup>
Operational Temperature Range Pollution Degree - Overvoltage Category (EN 50124-1)	Tx (-40°C ÷ +/5°C)° PD3 - OV3

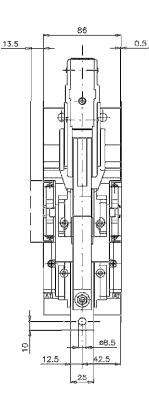
 $^{\rm 4}$  Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condiotions, please contact MS.

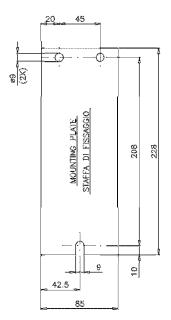
<sup>5</sup> In according to IEC50125-1





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.







Microelettrica Scientifica S.p.A. - 20090 Buccinasco (MI) - V. Lucania, 2 - Italy Tel. +39 02 575731 - Fax +39 02 57510940 - E-Mail: info@microelettrica.com