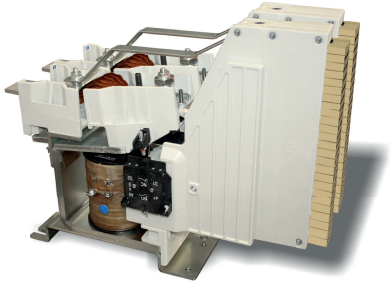


Switches

Standard Family Code LTHS15002*A03



Description

Contactor with single interruption in air, electromagnetic control by starter power save system for double winding coil. Single state functioning. Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Type	LTHS 1500
Number of Poles	2 NO
Connection between poles	Single, series or parallel ¹
Mounting Position	Horizontal - Vertical ¹
Control Voltage Rating U _c [Vdc]	24 - 36 - 48 - 72 - 110 ¹
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Ceramic
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Layout Drawing	D49078

¹ To be specified in order phase.

Electrical Characteristics

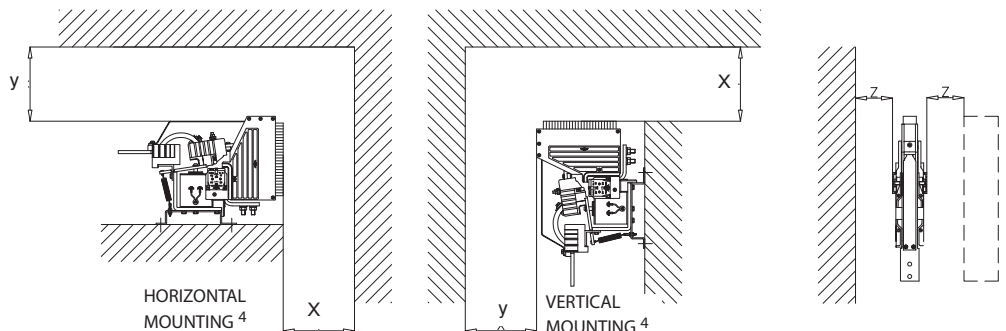
Rated Operational Voltage [V _{ac} / V _{dc}]	900 / 1800 ¹		
Max Operational Voltage [V _{ac} / V _{dc}]	2000		
Rated Insulation Voltage [V]	2000		
	Single Pole	Series Connected ³	Parallel Connected ³
Conventional Free Air Thermal Current [A] at 40°C ²	1350	1350	2700
Conventional Free Air Thermal Current [A] at 75°C ²	1250	1250	2500
DC-Rated Operational Current (τ=15ms) [A]			
1800V	915	2000	915
900V	1830	4000	1830
DC-Maximum Breaking Capacity (τ=5ms) [A]			
1800V	1350	2500	1350
900V	2500	5000	2500
AC-Maximum Breaking Capacity (cosφ=0,8; 50Hz) [A]			
1800V	1800	3300	1800
900V	3750	6600	3750
Short Circuit Withstand Capacity for 5ms [kA]	16	16	24
Critical Current Range [A]	<50 at 1500V _{dc}	<30 at 1500V _{dc}	<50 at 1500V _{dc}
Fault Making Capacity [kA]	9.6	9.6	14.4
Component Category / Operational Frequency Class	A2 / C3		
Blow Out Circuit Type	Indirect coil with Arcing Contacts		

² Device cabled according IEC 60947

³ Series or parallel bar connections are available under request

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

Minimum clearances [mm] from:				
Rated Operational Voltage	X	Y	Z	
1800V	Metal Parts	120	50	40
	Plastic Parts	50	30	20



⁴ OTHER MOUNTING POSITIONS NOT ALLOWED



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Switches

Customized Family Code
LTHS15002*A03

Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	31

Control Circuit

Control Voltage Range	0.7U _c ÷ 1.25U _c
Power Consumption (U _c and T = 20°C) at Pick Up - when Holding [W] ⁵	60 - 30
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	300 - 60
Time Constant (L/R) at Pick Up - when Holding [ms]	5 - 5
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts

Tips material	Solid Silver
Rated Operational Voltage [V _{ac} / V _{dc}]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{dc} [mA] ⁶	20
Electrical Connections	Fast-On 6.35x0.8mm

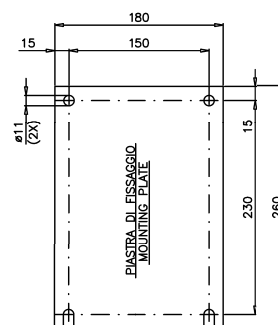
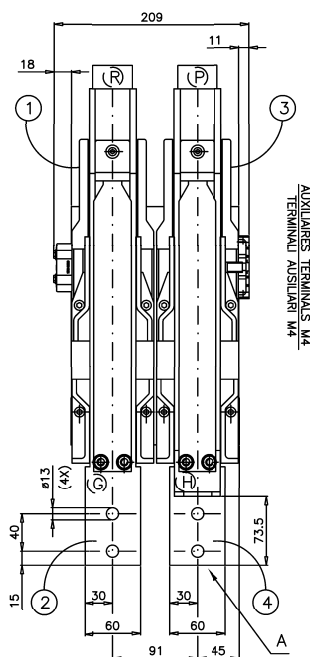
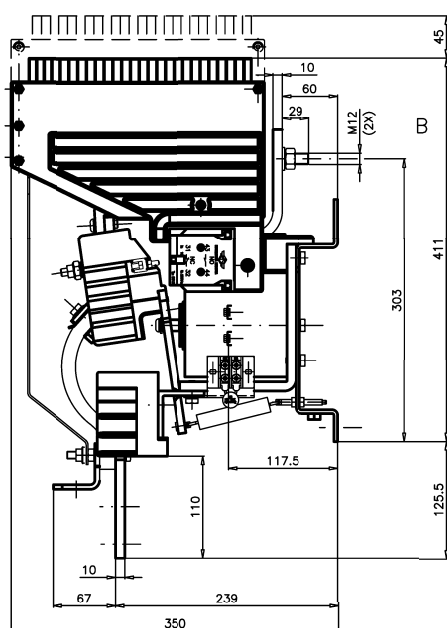
Environmental Conditions

Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C) ⁷
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 / OV3
Max Altitude without Performance Derating [m]	2000

⁵ Minimum reclosing command time = 2s

⁶ In clean and dry conditions

⁷ In according to IEC50125-1



KNORR-BREMSE



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