

Standard Family Code TADN0125P3E00



Туре	TADN 125
Number of Poles	2 NO + 1 NC
Connection between poles	Series for NO pole ¹
Mounting Position	Vertical
Control Voltage Rating Uc [Vdc]	110Vdc/Vac - 220Vdc/Vac ²
Auxiliary Contact Blocks	5 NO + 5 NC
Block Type	В
Arc chute Material	Plastic shells
Main Contacts tips Material	S6 (NO pole) - S4 (NC pole)
Arcing Contacts tips Material	-
Electric Diagram 110V / 220V	SC27101 / SC27102
Layout Drawing	D53580

Description

Contactor with single interruption in air, electromagnetic control by two coils (one for close and one for open), and also handle lever. Double state functioning thanks to mechanical latching device. Reference standard ANSI-IEEEE CE 37.18-1979 and C37.16-1988.

¹ Series bar connections available under request

² To be specified in order phase.

Electrical Characteristics	
Rated Nominal Voltage Class Vn [Vac / Vdc]	600
Rated Insulation Voltage Ui [V]	1000
Characteristics of the main Contacts (2 Poles NO Series)	
Conventional Free Air Thermal Current Ith [A] at 40°C ³	125
Conventional Free Air Thermal Current Ith [A] at 60°C ³	110
Rated short-time voltage of main contacts V' [Vac]	700
Rated interruption current l'cc of main contacts at V' (short-circuit in the field circuit) [kA]	1
Rated maximum interrupting voltage of main contacts Vcc [Vdc]	1000
Rated interruption current lcc of main contacts at Vcc (short-circuit in the armature circuit) [kA]	0.6
Rated 1/2 second short-time current Icc 0,5 [kA]	2
Average impedence per pole at 50 Hz [µOhm]	1200
Blow out type	Direct
Characteristics of Normally Closed Contact	
Rated continuos current Ind [A]	125
Rated interrupting current lccd of the discharge contacts at V' [kA]	0.6
Rated making current of the discharge contacts I chd (short-circuit in the armature circuit) [kA]	1.8
Rated 15 seconds short-time current Id 15" [kA] of the discharge contacts	0.9
Blow out type	Direct
Contact Overlap between NO & NC Poles	
Time from NC closing and NO opening [ms]	2÷3
Time from NO closing and NC opening [ms]	3÷5

³ Device cabled according IEC 60947

Minimum clearances [mm] from:				
Rated Operational Voltage		Х	Y	Ζ
1000	Metal Parts	100	50	30
	Plastic Parts	50	30	20





⁴ OTHER MOUNTING POSITIONS NOT ALLOWED



Switches

Standard Family Code TADN0125P3E00

Mechanical Characteristics	
Mechanical Endurance (cycles) ⁵	2.5x10 ^s
Weight [kg]	6
Control Circuit	
Control Voltage Range	0.85Uc ÷ 1.1Uc
Power Consumption (Uc and T = 20° C) at Closing - When holding - at Opening [W]	200 - 0 - 150
Mechanical Operation Time (U _c and T = 20°C) when Closing - Opening [ms]	25 - 15
Mechanical Operation Time (in the worst condition) when Closing - Opening [ms]	250 - 20
Time Constant (L/R) at Pick Up - when Holding [ms]	
Electrical Connections	Terminal board
Auxiliary Contacts	
Tips material	Solid Silver
Rated Operational Voltage [Vac / Vac]	250
Rated Current [A]	10
Minimum Switching Current at 16V _{ac} [mA] ⁶	100
Electrical Connections	Fast-On 6.35x0.8mm
Environmental Conditions	
Stock Temperature Paper	25°C : 160°C

Stock Temperature Range $-25^{\circ}C \div +60^{\circ}C$ Operational Temperature Range $-5^{\circ}C \div +55^{\circ}C$ Max Altitude without Performance Derating [m]2000

⁵ With respect of the maintenance operations

⁶ In clean and dry conditions





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 relating 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