DIL Series

Sealed DIL Version w/ up to 4.25 kVDC Breakdown Voltage Option



FEATURES

- Compatible with 14 pin DIL socket
- High resistance coil up to 11 kOhm available.
- Plastic case sealed with PU-resin
- · Magnetic shield available
- 4.25 kVDC breakdown voltage available.
- Diode option
- · RoHS compliant.

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DESCRIPTION

Several pin out options are possible with the 14 pin DIL series. Suitable for telecommunication applications where breakdown voltages up to 4.25 kVDC is required.

CHARACTERISTICS

- Telecommunications
- General purposes
- Test and Measurement
- Medical equipment

DIMENSIONS All dimensions in mm [inch]





ORDER INFORMATION

Series	Nominal Voltage	Contact Form	Switch Model	Pin Out	Option () Version with magnetic Shield	Version
DIL	ХХ -	хх	ХХ -	хх	x	хх
	05 40 04	1A	66, 72, 75	13*,15		HR, L
Options	05, 12, 24	2A	66, 72, 75	21	L(M),D(Q),E(R) ^t ,	L
	05, 12	1C	90	51*	F(S) [#]	HR, L
	05, 12, 24	2C	90	62, 63		L
* When HR is L = No Option.	selected, 24 V c	^t Not available with P	in out 62, 63.			

Part Number Example

DIL12 - 1A72 - 10LHR

12 is the nominal voltage

- $\mathbf{1A}$ is the contact form
- 72 is the switch model 13 is the pin out
- L is the option
- **HR** is the high resistance version

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PIN OUT



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ONLY WHEN USING A MERCURY WETTED (88) SWITCH





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OPTIONS

() Versions with magnetic shield

View from top of component 2.54mm [0.10"] pitch grid



Please note: any option can affect the coil resistance, the breakdown voltage or other electronical data. Please contact us.

Special performance: The following special options are available on request:

- Other pinning layout
- · Other coil resistance values
- Other switches available

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All Data at 20° C	Switch Model \rightarrow Contact Form \rightarrow	Sv F	vitch orm /	66 A	Switch 72 Form A			
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s.			10			15	W
Switching Voltage	DC or peak AC			200			200	V
Switching Current	DC or peak AC			0.5			1.0	А
Carry Current	DC or peak AC			1.25			1.25	А
Static Contact Resistance	Measured w/ 0.5 V & 50 mA			150			150	mΩ
Dynamic Contact Resistance	Measured w./ 0.5 V &50m A, 1.5 ns after closure			200			200	mΩ
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 ¹⁰ 10 ¹²			10 ¹² 10 ¹²			Ω
Breakdown Voltage	Across contacts Coil to contact	225 1.5*			250 1.5*			VDC kVDC
Operate Time incl. Bounce	Nominal voltage			0.5			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	Across contacts Contact to coil		0.2 4.0			0.4 4.0		pF
Life Expectancies								
Switching 5V & 10 mA	DC only & < 10 pF stray cap.		1000			1000		10 ⁶ Cycles
For other load requirements, see	the life test section on P. 120.							
Environmental Data								
Shock Resistance	1/2 sine wave duration for 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Storage Temperature	10°C/ minute max. allowable	-25		85	-35		95	°C
Soldering Temperature	5 sec. dwell			260			260	°C
* 4.25 kVDC / 3.0 kVRMS for	r pin outs 13 and 15.							

RELAY DATA

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DIL Series

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All Data at 20° C	Switch Model \rightarrow Contact Form \rightarrow	Sv F	vitch form	75 A	Sv F	vitch ⁱ orm	90 C	
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s.			10			10	w
Switching Voltage	DC or peak AC			500			175	V
Switching Current	DC or peak AC			0.5			0.5	А
Carry Current	DC or peak AC			1.0			1.0	А
Static Contact Resistance	Measured w/ 0.5 V & 50 mA			200			150	mΩ
Dynamic Contact Resistance	Measured w./ 0.5 V &50m A, 1.5 ns after closure			200			250	mΩ
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 ¹⁰ 10 ¹²			10 ⁹ 10 ¹²			Ω
Breakdown Voltage	Across contacts Coil to contact	1500 1.5*			200 1.5			VDC kVDC
Operate Time incl. Bounce	Nominal voltage			0.5			0.7	ms
Release Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	Across contacts Contact to coil		0.4 4.0			1.0 4.0		pF
Life Expectancies								
Schaltspannung 5V - 10 mA	DC <10 pF Streukapazität		500			100		10⁵ Cycles
For other load requirements, see	the life test section on P. 120							
Allgemeine Daten								
Shock Resistance	1/2 sine wave duration for 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Storage Temperature	10°C/ minute max. allowable	-25		85	-25		85	°C
Soldering Temperature	5 sec. dwell			260			260	°C
* 4.25 kVDC / 3.0 kVRMS for	r pin outs 13 and 15.							

RELAY DATA

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Contact Form	Switch Model	Coil V	oltage	Coil Resistance			Pull-in Voltage	Drop-out Voltage	Nominal Coil Power	
All Data at 20 °C *		VDC		Ω			VDC	VDC	mW	
		Nom.	Max.	Min.	Min. Typ. Max.		Max.	Min.	Тур.	
		5	7.5	405	450	495	3.5	0.75	55	
1A	66 72	12	16	1620	1800	1980	8.4	1.8	80	
	75	24	30	4050	4500	4950	16.8	3.6	130	
	66 72 75	5	7.5	180	200	220	3.5	0.75	125	
2A		12	16	621	680	748	8.4	1.8	210	
		24	30	1800	2000	2200	16.8	3.6	290	
		5	7.5	180	200	220	3.5	0.75	125	
1C		12	16	900	1000	1100	8.4	1.8	145	
		24	30	2700	3000	3300	16.8	3.6	190	
	90	5	7.5	145	150	165	3.5	0.75	165	
2C		12	16	612	680	748	8.4	1.8	210	
		24	30	1800	2000	2200	16.8	3.6	290	
* The pull-in, d	* The pull-in, drop-out voltages and coil resistance will change at the rate of 0,4 % / °C.									

COIL DATA

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