

FEATURES

- · 2 Form C available
- · High resistance available
- 2 Form A switches available
- · Magnetic shield available
- · 4.25 kVDC breakdown voltage available
- · High power switching available

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DESCRIPTION

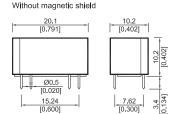
Several pin out options are possible with the 14 pin DIL series. Suitable for telecommunication applications where breakdown voltages up to 4.25 kVDC is required.

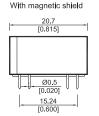
CHARACTERISTICS

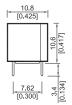
- Compatible with DIL socket
- Coil resistance up to 11 k Ω
- Diode option

DIMENSIONS

All dimensions in mm [inches]







ORDER INFORMATION

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

Part Number Example

DIL12 - 1A72 - 10LHR

12 is the nominal voltage

1A is the contact form

72 is the switch model

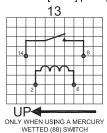
13 is the pin out

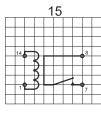
L is the option

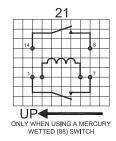
HR is the high resistance version

PIN OUT

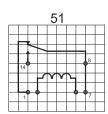
View from top of component 2.54mm [0.10"] pitch grid

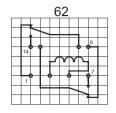


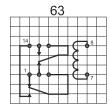




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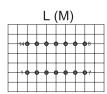


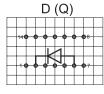


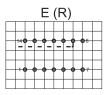
OPTIONS

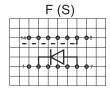
() Versions with magnetic shield

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 electrical data. Please contact us.

Special performance:

The following special options are available on request:

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

RELAY DATA

All Data at 20° C	Switch Model → Contact Form →				vitch 72 orm A			
Contact Ratings	Conditions	Min.	Тур.	Мах.	Min.	Тур.	Мах.	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	w/ 0.5 V & 50mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			200	mΩ
Insulation Resistance (100 Volts applied)	Across Contact Contact to coil	10 ¹⁰ 10 ¹²			10 ¹² 10 ¹²			Ω
Breakdown Voltage	Across Contact Contact to coil	225 1.5*			250 1.5*			VDC kVDC
Operate Time incl. Bounce	With nominal voltage			0.5			0.7	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	Across Contact Contact to coil		0.2 4.0			0.2 4.0		pF
Life Expectancies								
Switching 5V - 10 mA	DC <10 pF stray cap.		1000			1000		10 ⁶ Cycles
For other load requirements, s	ee the life test section on P. 112.							
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	max. 10°C/ minute allowable	-20		70	-20		70	°C
Storage Temperature	max. 10°C/ minute allowable	-25		85	-35		95	°C
Soldering Temperature 5 sec. dwell				260			260	°C
* 4.25 kVDC / 3.0 kVRMS for Pin-outs 13 and 15.								

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RELAY DATA

All Data at 20° C	Switch Model → Contact Form →				Switch 90 Form 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	Α
Static Contact Resistance	w/ 0.5 V & 50mA			200			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			250	mΩ
Insulation Resistance (100 Volts applied)	Across Contact Contact to coil	10 ¹⁰ 10 ¹²			10 ⁹ 10 ¹²			Ω
Breakdown Voltage	Across Contact Contact to coil	1500 1.5*s			200 1.5			VDC kVDC
Operate Time incl. Bounce	With nominal voltage			0.5			0.7	ms
Release Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	Across Contact Contact to coil		0.4 4.0			1.0 4.0		pF
Life Expectancies								
Switching 5V - 10 mA	DC <10 pF stray cap.		500			100		10 ⁶ Cycles
For other load requirements, s	ee the life test section on P. 112.							
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	max. 10°C/ minute allowable	-20		70	-20		70	°C
Storage Temperature	max. 10°C/ minute allowable	-25		85	-25		85	°C
Soldering Temperature	5 sec. dwell			260			260	°C
* 4.25 kVDC / 3.0 kVRMS fo								

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COIL DATA

Contact Form	Switch Model	Co Volt	oil age	Coil Resistance			Pull-in Voltage	Drop-Out Voltage	Nominal Coil Power	
All Data at 20 °C		VDC		Ω			VDC	VDC	mW	
		Nom.	Max.	Min. Typ. Max.		Max.	Min.	Тур.		
	66 72 75	5	7.5	405	450	495	3.5	0.75	55	
1A		12	16	1620	1800	1980	8.4	1.8	80	
		24	30	4050	4500	4950	16.8	3.6	130	
U.com	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	
	90	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	
		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, drop-out voltages and coil resisitance will change at the rate of 0,4 % per °C.										

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