pickering

Application				High Density	Vertical)					Plastic Pac	kage SIL							Metal Package SIL				Application
Series Name	124-1-A	122-1-A	120-1-A 11	7-1-A 117-2-A 116-1-	A 116-2-A	115-1-A 115-2-A 112-1	-A 110-1-A	113-1-A 113SP-1-A 113-2-/	A 113-1-C 111P-1-A	109P-1-A 106-1-	A 106-1-C	105-1-A	105-1-C 105-1-E	3 105-2-A	103-1-A & 103M-1-A	111-1-A 109-1-A	109-1-C 109-1-B 109-2-A	108-1-A 108-1-C	108-2-A 10	07-1-A 10	/-1-C 107-1-B	107-2-A 1	07-2-C Series Name
Physical Outline	4mm ²™	4 mm²™	4 mm²™		Programme Sectore With Aller		2000					Non the Same		The second	No. 1 March								Physical Outline
_				Highest Quality Instrumentatio	on Grade Reed Switches			Action Action Action	Smallest	High	est Quality Instrumentation Grade Reed	I Switches			Low		Harris Harris	Hig	nest Quality Instrumentation Grade Reed Switc	thes			_
Features	ath 3.9 (0.153)	3.9 (0.153)	Ultra H	igh Packing Density	7 (0.145)	37(01/5)	igh Packing Density	High Packing Density	Form C High Packin	Density Stand	ard 0.2" Pitch	Wide Ran	nge of Configurations		Capacitance	3.7 (0.145)	3.7 (0.145)	3.7 (0.1/5)	SoftCenter [™] Construction in Mu-Metal Can		4.8 (0.19)		Features
Dimensions mm (inches)	Ith 3.9 (0.153)	3.9 (0.153)	3.9 (0.153) 3.9 (0.153) 6.6	(0.26) 9.9 (0.39) 6.6 (0.2	6) 9.9 (0.39) 6	5.7 (0.143) 5.7 (0.1 6.6 (0.26) 9.9 (0.39) 10.0 (0.	43) 3.7 (0.143) 395) 10 (0.39)	12.5 (0.49)	10.0 (0.39)	5.1 (0.595) 19	9.1 (0.75)		19.1 (0.75)		19.1 (0.75)	10.0 (0.39)	15.1 (0.595)	20.0 (0.79)		19.	(0.75)	24	i.1 (0.95) Width Dimensions mm (inches)
Footprint	ght 9.5 (0.375)		15.5 (0.61)	9.52 (0.375) 12.	.45 (0.49)	15.5 (0.61) 11.0 (0	<u>43)</u> 15.2 (0.6)	6.6 (0.26) 8.9 (0.35	i) 6.6 (0.26) 6.6 (0.26)	6.6 (0.26) 8	.1 (0.32)	7.9 (0.31)		10.7 (0.42)	8.1 (0.32)	6.6 (0.26) 6.6 (0.26)	8.9 (0.35)	6.6 (0.26)		7.6 (0.3)			Height Height
(0.1 inch grid) Contact Configuratio	on 1A (SPST)	1A (SPST)	1A (SPST) 1A (SPST) 2A (DPST) 1A (SPS	5T) 2A (DPST) 1/	1A (SPST) 2A (DPST) 1A (SP	ST) 1A (SPST)	1A (SPST) 1A (SPST) 2A (DPS	T) 1C (SPDT) 1A (SPST)	1A (SPST)	ST) 1C (SPDT)	1A (SPST)	1C (SPDT) 1B (SPN	C) 2A (DPST)	1A (SPST)	1A (SPST) 1A (SPST)	1C (SPDT) 1B (SPNC) 2A (DPST)	1A (SPST) 1C (SPDT)	2A (DPST) 1A	(SPST) 1C (SPDT) 1B (SPNC)	2A (DPST) 20	C (DPDT) Contact Configuration
Switch Schematic	۶. ۲	° X																					Switch Schematic
Dood Switch Type	Low Level	Low Level	General Low	Low Level Lo	w Level Gener	eral Low General Low Low Level	vel General Low		General General	eral Low General	Low General Lo	ow High Standard Position	General L	Low General Low Standar	rd General Low	General General Low		General Low General Low General	neral Low General Low H	High Standard Position	General Low General	Low Level Marcury D	
Switch Number	Dry Reed	Dry Reed	Dry Reed	Dry Reed D	ry Reed Dry Re	Reed Dry Reed Reed Dry Reed Dry Reed	Reed Dry Reed		Dry Reed Dry Reed Re	ed Dry Reed Reed Dry	y Reed Dry Reed Dry Reed Dry R	Reed Switch Switch Switch	Reed Dry L	Reed Reed Dry Reed Switch	Dry Reed Dry Reed	Dry Reed Dry Reed Dry Reed	3 2	Reed Reed I	Reed Dry Reed Reed Sw	witch Switch Switch	Reed Reed Dry Reed	Dry Reed Switch	3 Switch Number
Diode Available	No	No		Yes	Yes	Yes Yes	Yes	Yes	Yes	Yes	Yes		Yes		Yes		Yes 200 Y	Yes			Yes		Diode Available
Switching Voltage/	A 0.5 A	0.5 A	1.0 A 0.5 A	0.5 A	0.5 A 1.0 A	200 V 200 V A 0.5 A 1.0 A 0.5 A 0.5 A	A 1.0 A 0.5 A	200 V 0.5 A	30 V 170 V 0.1 A 0.5 A 1.0	200 V A 0.5 A 1.0 A 0	200 V 200 V 0.5 A 0.25 A 1 A 0.5	500 V 5 A 0.5 A 2 A 2 A	0.25 A 1 A 0	0 V 500 V .5 A 1 A 0.5 A 2 A	/ 200 V 1 A 0.5 A	170 V 200 V 0.5 A 1 A 0.5 A	30 V 200 V 0.1 A 0.5 A	1 A 0.5 A 0.25 A	1 A 0.5 A 1 A 0.5 A	2 A 2 A 0.	200 V 25 A 1 A 0.5 A 1 A	0.5 A 2 A	200 V Switching Voltage/V 0.25 A Switching Current/A
Carry Current/A	0.5 A	0.5 A	1.2 A	0.5 A	0.5 A 1.2 A	A 1.2 A 1.2 A 1.2 A 0.5 A	1.2 A	0.5 A	0.1 A 0.5 A 15(1.2 A	1.2 A 1.2	2 A 3 A 3 A	1. 2.W 15(5V), 1	2 A 3 A 0 W 15(5V), 10 W 50 W	1.2 A	0.5 A 1.2 A 10 W 15(5L), 10 W	0.1 A 1.2 A	1.2 A	i(5V), 10 W 15(3V), 10 W	3 A 3 A	1.2 A W 15(5V), 10 W 15(5V),	3 A	1.2 A Carry Current/A
Max Initial Contact	180 m0	180 m0	180 m0	120 m0 1	120 m0	120 m0	0 150 m0 120 m0	120 m0	250 m0 150 m0 150	m0 120 m0 150 m0 12	20 m0 200 m0 150 m0 120	100 150 m0 75 m0 100 m0	200 m0 150 m0	20 10 W 30 W	0 150 m0 120 m0	150 m0 150 m0 120 m0	250 m0 120 m0 140 m0	150 m0 120 m0 200 m0 1	20 10 0 20 10 0 150 m0	0 m0 75 m0 100 m0 20	20 20 20 150 m0 170 m0	150 m0 100 m0 1	Max Initial
Resistance/mΩ	.oad 2.5 x 10 ⁸	2.5 x 10 ⁸	10 ⁹	2.5×10^8 2	.5 x 10 ⁸	10 ⁹ 10 ⁹	10 ⁹	2.5 × 10 ⁸	$2.5 \times 10^8 2.5 \times 10^8$	10×10^9 10^9	10 ⁸ 10 ⁹	10^8 10^9	10 ⁸	10 ⁹	109	2.5 x 10 ⁸ 10 ⁹	10 ⁸ 10 ⁹	10 ⁹ 10 ⁸	10 ⁹ 10 ⁹	10 ⁸ 10 ⁹	0 ⁸ 10 ⁹		Contact Resistance/mΩ 10 ⁸ Min Load Life
Expectancy/ Typi operations Max I	cal 10 ⁷	10 ⁷	10 ⁸	10 ⁷	10 ⁷	10 ⁸ 10 ⁷ 10 ⁶	10 ⁸	10 ⁷ 10 ⁶	10 ⁷ 10 ⁷ 10 ⁶	10 ⁸ 10 ⁸ 10 ⁷ 10 ⁷	10 ⁷ 10 ⁸ 10 ⁶ 10 ⁷	10 ⁷ 10 ⁸ 10 ⁶ 10 ⁷	10 ⁷	10 ⁸ 10 ⁷	10 ⁸ 10 ⁷	10 ⁷ 10 ⁸	10 ⁷ 10 ⁸	10 ⁸ 10 ⁷ 10 ⁶	10 ⁸ 10 ⁸ 10 ⁸	10 ⁷ 10 ⁸ 10 ⁶	0 ⁷ 10 ⁸ 0 ⁶ 10 ⁷		107TypicalExpectancy/106Max Loadoperations
Operate Time/ms	0.2 ms	0.2 ms	0.5 ms	0.3 ms	0.5 ms	0.5 ms 0.5 m	0.5 ms	0.5 ms	1 ms 0.5 ms	0.5 ms 0.5 ms	s 1 ms 0.5 ms	0.75 1.5 ms 1.5 ms	1 ms	0.5 ms 1.5 ms	s 0.5 ms	0.5 ms 0.5 ms	0.75 ms 0.5 ms	0.5 ms 1 ms	0.5 ms 0.5 ms 0	0.75 2 ms 1	ms 0.5 ms	2 ms	1 ms Operate Time/ms
Insulation Resistance	ce/Ω 10 ¹² Ω	10 ¹² Ω	10 ¹² Ω	10 ¹² Ω	10 ¹² Ω	0.2 ms 0.2 m 10 ¹² Ω 10 ¹²	$\frac{0.2 \text{ ms}}{10^{12} \Omega}$	<u>0.2 ms</u> 10 ¹² Ω	$10^{10} \Omega$ $10^{12} \Omega$	$\frac{0.2 \text{ ms}}{10^{12} \Omega} \qquad 0.2 \text{ ms}}$	$\frac{10^{10} \Omega}{10^{10} \Omega}$	$1^{2} \Omega$ $10^{11} \Omega$	10 ¹⁰ Ω	0.2 ms 1 ms 10 ¹² Ω 10 ¹¹ Ω	$\frac{0.2 \text{ ms}}{10^{12} \Omega}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.5 ms 0.2 ms 10^{11} Ω 10^{12} Ω	0.2 ms 0.5 ms 10 ¹² Ω 10 ¹⁰ Ω	$\frac{0.2 \text{ ms}}{10^{12} \Omega} = \frac{0.2 \text{ ms}}{10^{12} \Omega} = 0.2$	5 ms 1.25 ms 0.3 10 ¹¹ Ω 10	¹⁰ Ω 10 ¹² Ω	1.25 ms 10 ¹¹ Ω	1010 ΩInsulation Resistance/Ω
3V/	Ω 75 Ω (Ω 200 Ω	<u>125 Ω</u> 350 Ω	<u>200 Ω 200 Ω 20</u> 300 Ω 500 Ω 40	10 Ω - 250 Ω 10 Ω 250 Ω 500 Ω	375.0	250 Ω - - 250 Ω 500 Ω 250 Ω 375 Ω 500 Ω	Ω – <u>250 Ω</u> Ω 500 Ω	250 Ω	- 200 Ω -	250 Ω – 5 (1000 for high	500 Ω – 500 Ω 500 500 Ω – 500 Ω 500	<u>0Ω – – – –</u> ΩΩ 140Ω	500 0 1000 0	500.0 100.0		<u>200 Ω</u> – <u>330 Ω</u> 500 Ω 500 (1000 for high	<u>100 Ω – 200 Ω</u> 150 Ω 750 Ω 375 Ω	- <u>330 Ω</u> -	<u>500 Ω</u> 500 Ω	140.0 50			200 Ω 3V/Ω 375 Ω 5V/Ω Coil
Resistance 12V	/Ω –	-	800 Ω 800 Ω	- 750 Ω	750 Ω	1000 Ω 750 Ω 750 Ω 750 Ω	<u>1000 Ω</u>	650 Ω –		itivity version) 1000	1000 Ω 100	00 Ω 500 Ω	1000 Ω 3000 Ω	1000 Ω 375 Ω		- 1000 Ω	750 Ω	1000 Ω	1000 Ω 1000 Ω	500 Ω 10	0 Ω 3000 Ω 1000 Ω	1000 Ω 375 Ω	$\frac{1000 \Omega}{12V/\Omega} = \frac{1000 \Omega}{12V/\Omega}$
24V	/Ω –	-	- -	-	-				- - -	- -	300	0 Ω 1500 Ω	3000 Ω 3000 Ω	3000 Ω 1000 Ω	n – –				3000 Ω	1500 Ω 30	0 Ω 3000 Ω 3000 Ω	3000 Ω 1000 Ω	2700 Ω 24V/Ω
Application			High Switching Po	ower												High Voltage							Application
Series Name	114-1-A	114-2-A	114-1-B	100HC-1-A 100HC	C-2-A 100HC-1-E	🖌 Custo	m Reed	Relays	Nen 131-1-A	119-1-A	119-2-A	119-1-B	106-1-A	104-1-A	104-1-B	104-2-A	100HV-1-A 100H	IV-1-B 100HV-2-A	62/63-1-A 62/63-1-B	60/65-1-A 60/65	1-B 67-1-A	67-1-C 68-1	I-A Series Name
Physical Outline	Party Contraction	The state of the s		Care Care Care Care Care Care Care Care	A STREET OF						Contraction of the second			ALL	a construction of the second	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Contra Contra	Carrier Contraction	I STATUTE	The state of the s			Physical Outline
			heat Quality Instrumentation Com	a Dead Switches		Pickering may be ab	le to adapt an exis	iting relay or design a		44.	a de la companya de la compa	1 N N	Highest Quality	/ Instrumentation Grade Reed Switches						Robust Tungst	en Plated Switches		
Features			High Power						27 (0 1/5)		7 (0.1/5)	27(0.1/5)	(0 (0 10)		2 (0.2/5)	High Voltage	10.2 (0.40)		10.05 (0.75)	1/ 0 (0 (2)			Features
Dimensions Wid	oth ith 24.1 (0.95)	6.3 (0.245) 29.0 (1.	.14) 2	10.2 (0.40)) 29.0 (1.14)	Coccanada Coccanada Arrowana	POLAN ATTOS	PICKERING ELECTRONCS	12.5 (0.49)	15.1 (0.595)	20.1 (0.79)	3.7 (0.145) 15.1 (0.595)	4.8 (0.19) 19.1 (0.75)	24.1 (0.95)	29 (1.	.14)	24.1 (0.95)	29.0 (1.14)	63.5 (2.5)	57.9 (2.28)		.6 (0.495)	Width Dimensions mm (inches)
Hei	ght 8.2 (0.32)	12.5 (0.4	.49) 1	2.7 (0.50)	15.2 (0.60)		11		6.6 (0.26)	6.6 (0.26)	8.9 (0.35)	8.9 (0.35)	8.1 (0.32)		12.5 (0			15.2 (0.60)	21.3 (0.84)	18.0 (0.71) Scaled 50%	Scaled 50%	4.5 (0.57)	Height
Footprint (0.1 inch g	rid)					Standard parts with custom pinouts or	• Specialized Applications, for	switches for RF/HF									· · · · · · · ·	· · ·	• •	• •			Footprint (0.1 inch grid)
Contact Configuratio	n 1A (SPST)	2A (DPST)	1B (SPNC)	A (SPST) 2A (DE	PST) 1B (SPNC)	pin length	example, current operated relays	• 1 and 2 Form A available	1A (SPST)	1A (SPST)	2A (DPST)	1B (SPNC)	1A (SPST)	1A (SPST)	1B (SPNC)	2A (DPST)	1A (SPST) 1B (S	SPNC) 2A (DPST)	1A (SPST) 1B (SPNC)	1A (SPST) 1B (SP	NC) 1A (SPST)	1C (SPDT) 1A (S	PST) Contact Configuration
Switch Schematic						A CONTRACTOR OF A	And a state of the	OC AMAN							, ţiri, ĵ		ţuj liuj liu				Service 2 s s	2 3 5 7 1 2 Series 67 Orcuit Schematic - 1 Form C Dicke is optimal	Switch Schematic
							The second second	Property of the second	1kV Min 1.5kV Min Stand Stand	kV Min 1.5kV Min 2kV M Stand Stand Star	Min 3kV Min 1kV Min 1.5kV Mir nd Stand Stand Stand	n 1kV Min 1.5kV Min 2kV Min Stand Stand Stand	1.5kV Min Stand Off	<v 1.5kv="" 3kv="" 4kv="" m<br="" min="">Stand Stand Off Stand Stand</v>	4in 1.5kV Min 2kV Min 1.5kV nd Stand Stand Star	Min 2kV Min 1.5kV Min 1.5kV Min Stand Off Stand Off	lin 2kV Min 3kV Min 1.5kV Min	2kV Min 1.5kV Min 2kV Min Stand Off Stand Off Stand Off	5kV10kV15kV5kV10kVStandStandStandStandStand	5kV 10kV 15kV 5kV Stand Stand Stand Stand	10kV 5kV 10kV 8kV Stand Stand Stand	5kV 5kV Stand Off Stand Off	10kV Stand Off Reed Switch Type
Reed Switch Type Switch Number		High Power Dry Reed		High Power Dry	y Reed	Standard Catalog parts tested to a	1	12K	Off Off 1 (L) 1	Off Off Off 1 (L) 1 2 (L) 2	f Off Off Off 3 1 (L) 1	Off Off Off 1 (L) 1 2	5 Off	Off (Mercury) Off Off 2 6 3 4	Off Off Off 1 2 1	if Off (Mercury) Stand 0 2 6 1	2 3 1	2 1 2	OffOffOffOffOff12312	OffOffOffOff1231	Off Off Off 2 1 2 4	5 1	2 Switch Number
Diode Available Switching Voltage/V	/ 200	Yes Wdc 240Vac (500V min star	and off)	Yes 200Vdc 240Vac (500V	min stand off)	For example, the	• 2-Pole Mercury We	et a 2 Pala Manauru Wat	Yes 1000 V		Yes 1000 V		Yes 1000 V 1	000 V 500 V 1000 V	Yes 1000 V 1000 V 500	V 1000 V 500 V	Yes 1000 V		No 3500 V 7500 12500 3500 V 7500 V	No 3500 7500 12500 3500 ∨ 1	500 V 3500 V 7500 V 6000 V	Yes 2500 V 3500 V	Diode Available 7500 V Switching Voltage/V
Switching Current/A	A	1 A 3 A		1 A 3 A		been modified for applications requiring	pinout, an equivale	Changeover relay	0.7 A		0.7 A		0.5 A 1 A	2A 1A	1 A	2 A	1 A		3A 35A	3 A 3 5 A	35A 35A 5A	3A 37	A Switching Current/A
Switch Power/W		40 W		40 W		an increased voltage	discontinued part	open time is require	10 W		10 W		10 W 25 W	50 W 25 W	25 W	50 W	25 W		50 W	50 W	50 W 50 W 200 W	100 W 50	W Switch Power/W
Contact Resistance	/mΩ 150 mΩ	250 mΩ	200 mΩ	200 mΩ 250 r	mΩ 200 mΩ		ur Custom E	Poquiromonto	170 mΩ		170 mΩ		150 mΩ 150 mΩ	Ω 120 mΩ 150 mΩ	200 mΩ	150 mΩ	150 mΩ	200 mΩ	120 mΩ	120 mΩ	120 mΩ 500 mΩ	500 mΩ 120	$m\Omega$ Max initiat Contact Resistance/mΩ
Expectancy/ Typ	cal	10 ⁸		10 ⁸			LCOM/reed-relay	/custom-reed-relay	-		108		10 ⁸		10 ⁸		10 ⁸		107	107	107	10 ⁷ 10	7 Typical Expectancy/
Operate Time/ms		10 ⁷		2 ms		If your questio	ns are not answered	d there please call	0.5 ms		0.5 ms		0.5 ms 1 ms	1.5 ms	1 ms	1.5 ms	2 ms		3 ms	3 ms	3 ms 6 ms	4 ms 3 n	max Load Operations operate Time/ms
Release Time/ms Insulation Resistance	re/Ω	0.5 ms 10 ¹² Ω		1 ms 10 ¹² Ω		+44 (0) 1255 42814	or e-mail: techsal	es@pickeringrelay.con	0.2 ms 10 ¹² Ω		0.2 ms 10 ¹² Ω		0.2 ms 0.3 ms 10 ¹² Ω 10 ¹² Ω	1 ms 10 ¹¹ Ω 10 ¹² Ω	0.3 ms 10 ¹² Ω 10 ¹² Ω 10 ¹²	1 ms 2 Ω 10 ¹² Ω 10 ¹¹ Ω	1 ms 10 ¹² Ω		2 ms 10 ¹² Ω	2 ms 10 ¹² Ω	2 ms 10 ¹² Ω 10 ¹⁰ Ω	4 ms 2 m 10 ¹⁰ Ω 10 ¹²	nsRelease Time/ms2 ΩInsulation Resistance/Ω
3V,	/Ω 75 Ω /Ω 250 Ω	- 150.0		500.0 300	0 300.0				<u>100 Ω</u> 250 Ω	100 Ω 100 Ω 50 Ω 75 β 250 Ω 250 Ω 125 Ω 200	Ω 50 Ω 50 Ω 50 Ω Ω 125 Ω 100 Ω 100 Ω	50 Ω 50 Ω 50 Ω 100 Ω 100 Ω 100 Ω	375.0 375.0		750.0	250.0 50.0 2200.0		<u> </u>		35.0 20.0 35.0	- 40.0	 40.0 40	<u>3V/Ω</u>
Resistance 12V	/Ω 750 Ω	350 Ω	1000 Ω	2000 Ω 1000	0 Ω 1000 Ω	For a free evalu +44 (0) 1255 42814	ation sample cal 1. or e-mail sales	ll technical sales on s@pickeringrelav.com	750 Ω	750 Ω 750 Ω 400 Ω 500	Ω 400 Ω 400 Ω 400 Ω	400 Ω 400 Ω 400 Ω	1000 Ω 1000 Ω	500 Ω 500 Ω	2000 Ω	750 Ω 275 Ω 6800 Ω	3300 Ω 2000 Ω 2500 Ω	2000 Ω 2500 Ω 2000 Ω	150 Ω 75 Ω 150 Ω	<u>150 Ω</u> 50 Ω 150	Ω 150 Ω	150 Ω 150	Ω 12V/ Ω Resistance
24V	/Ω 2000 Ω	1000 Ω	2200 Ω	6000 Ω 4000	Ο Ω 4000 Ω				-				- 3000 C	1 1500 Ω 3000 Ω	3000 Ω	2000 Ω 1000 Ω 6800 Ω	Ω 6800 Ω 6800 Ω 6000 Ω	4000 Ω 6000 Ω 4000 Ω	<u> 500 Ω 350 Ω 500 Ω</u>	<u> 500 Ω 200 Ω 500</u>	Ω 003	600 Ω 600	Ω 24V/Ω
Application	111PE-1-A	113RE-1-A 109RE50	Coaxial/RF,	High Speed Digital	Reed Relays	102M-1-A 102M-1-B	118-1-4	<u></u>	101-1-0	l i	101-1-C 101-1-B	Low Coil Power/Low TI	hermal EMF	100-1-0	100-1-0	100-1-B	100-2-4	Application	200-1-4	Surface Mour	200-2-A 200-1-C	200-1-B 200	Surface Mount RF
		NEW			No. Contraction				ALL REAL PROPERTY AND A			NOT 2 TA		Vinterit	100-1-0		Tantana .	Physical Outline	200-1-4	the states of the States		200	PICKERING
	C		a faire			it the mail						NT OF											100-1473TP
Features	SoftCent	ter™ SoftCenter™	Highest Qua M Construction in Mu-Metal Can	Low Capaci	tance	Up to 20W Switching			Highest Quality In	ct Drive From CMOS				Hig	Direct Drive From CMOS - Low	Thermal EMF		Features		Highest Qual Only Surface Mount Re	ty instrumentation Grade Reed Switches Id Relay Available with SoftCenter ™ Con	truction	
Dimensions W	epth 3.7 (0.145) idth 10.0 (0.39)	3.7 (0.145) 12.5 (0.49)	3.7 (0.145) 15.1 (0.595)	4.8 (0.1 19.1 (0.7	9) 75)	<u>4.8 (0.19)</u> 19.1 (0.75)	5.08 (0.2) 8.38 (0.33)			7.4 (0.29) 20.1 (0.79)					<u>10.2 (0.40)</u> 24.1 (0.95)			Dimensions mm (inches)	3.9 (0.154) 15.25 (0.6)	5. 20.0 (0.79)	35 (0.23) 15.25 (0.6) 20.0 (0.79)	4.00 (0 15.25 (0.6) 15.25	0.154) 7.6 (0.3) (0.6) 13.5 (0.53)
He	ight 6.6 (0.26)	6.6 (0.26)	6.6 (0.26)	8.1 (0.3	2)	7.6 (0.3) 10.2 (0.4)	15.5 (0.61)		9.4 (0.37)			12.5 (0.49)		12.7 (0.5)		15.	.2 (0.60)	Contact Configuration	6.8 (0.27) 1A (SPST)	9.0 (0.35)	6.8 (0.27)9.0 (0.35)2A (DPST)1C (SPDT)	6.8 (0.27) 6.8 (0 1B (SPNC) 1A (S	0.27) 4.8 (0.19) PST) 1A (SPST)
Footprint (0.1 inch g	rid)																	Switzh Cabara d'a					
Contact Configuratio	n 1A (SPST)	1A (SPST)	1A (SPST)	1A (SPST)	1A (SPST)	1A (SPST) 1B (SPNC)	1A (SPST)		1A (SPST)	10	C (SPDT) 1B (SPNC)	2A (DPST)		1A (SPST)	1C (SPDT)	1B (SPNC)	2A (DPST)	Switch Schematic		•			
Switch Schematic	General					General Higher Power General Higher D		evel General Low Level Low	evel Dry High Voltage Stand	rd Position		General Low Level Stondard	General Low Lovel	High Voltage Standard	Position	General Low Level Corro		Reed Switch Type	General Low Level High Volt M	Standard Position lercury Wet Insensitive	Low Level Dry Reed	Low Level Low I Dry Reed Dry F	Level General Higher Reed Drv Reed Power Dry
Reed Switch Type	Dry Reed	Dry Reed Dry Reed D	Dry Reed Dry Reed Dry Reed	Dry Reed Dry Reed Dr	ry Reed Dry Reed D	Dry Reed Dry Reed	ed Dry Reed Dry R	eed Dry Reed Dry Reed Reed	(Special) Switch Mercury S (17D) 4 4	witch Insensitive Switch	Ory Reed Ory Reed Dry Reed Dry Reed 3 1 2	Dry Reed Dry Reed Mercury Swit	tch Dry Reed Dry Reed	Switch Mercury Switch Inser	ensitive Switch Dry Reed	Dry Reed Dry Reed Dry R	Reed Dry Reed Mercury Switch	Switch Number	1 2 4	ReedMercury Wet Reed68	2 3	2 2	2 1 2
Diode Available	Yes	Yes	Yes	Yes	200.1/	Yes	Yes			Yes					Yes			Diode Available Switching Voltage/V	200 V 500 V	Yes 500 V 500 V	200 V 200 V	200 V 200	Yes 200 V
Switching Current/	0.5 A	0.5 A 1 A	0.5 A 1 A 0.5 A	1 A 0.5 A	1 A 0.5 A	0.5 A 1 A 0.5 A 1 A	1 A 0.5	A 1 A 200 V	0.5 A 2 A	2 A	0.25 A 1 A 0.5 A	500 V 1 A 0.5 A 2 A	1 A 0	500 V	2 A 0.25 A	1 A 0.5 A 1 A	500 V A 0.5 A 2 A	Switching Current/A Carry Current/A	1 A 0.5 A 0.5 A 1.2 A 1.2 A 1.2 A	2 A 2 A 3 A 3 A	0.5 A 0.25 A 1.2 A 1.2 A	0.5 A 0.5 1.2 A 1.2	A 0.5 A 1 A 2 A 1.2 A 1.2 A
Carry Current/A Switch Power/W	0.5 A 10 W	0.5 A 10 W 20 W	1.2 A 10 W 20 W 10 W	1.2 A 15(5V), 20 10 W	1.2 A 20 W 10 W	1.2 A 10 W 20 W 10 W 20 W	1.2 A	1.2 A	3 A 10 W 50 V	3 A 50 W	1.2 A 3 W 15(5V), 20 10 W 1	3 A 15(5V), 20 10 W 50 W	1.2 A 15(5V), 20 1	3 A 0 W 50 W	3 A 50 W 3 W	1.2 A 15(5V), 20 10 W 15(5V)	3 A /), 20 10 W 50 W	Switch Power/W 1	5(5V), 20 10 W 10 W	50 W 50 W	10 W 3 W	10 W 10	W 10 W 20 W
Max Initial Contact Resistance/	mΩ 150 mΩ	120 mΩ 150 mΩ 1	120 mΩ 150 mΩ 120 mΩ	150 mΩ 120 mΩ 1	50 mΩ 120 mΩ 1	150 mΩ 150 mΩ 150 mΩ 150 m	Ω 120 mΩ	150 mΩ 120 mΩ	150 mΩ 75 m	Ω 100 mΩ 2	200 mΩ 150 mΩ	170 mΩ 150 mΩ 100 mΩ	150 mΩ 120 mΩ	150 mΩ 100 mΩ	120 mΩ 200 mΩ	170 mΩ 200 r	mΩ 180 mΩ 150 mΩ	Contact Resistance/mΩ	150 mΩ 120 mΩ 150 mΩ	75 mΩ 100 mΩ	120 mΩ 200 mΩ	120 mΩ 120	mΩ 100 mΩ
Life Min Expectancy/ Type	Load 2.5 x 10 ⁸	2.5 x 10 ⁸ 10 ⁷	10 x 10 ⁹ 10 ⁸	10 x 10 ⁹ 10 ⁸	10 x 10 ⁹ 10 ⁸	10 ⁹ 10 ⁸	10 ⁹		10 ⁹ 10 ⁸		10 ⁸	10 ⁹ 10 ⁸		10 x 10 ⁹ 10 ⁸	10 ⁸	10	0 x 10 ⁹	Life Min Load Expectancy/ Typical		10 ⁸	10°	10 ⁸ 10) ⁸ 10 ⁸
operations Max	Load 10 ⁶	10 ⁶	10 ⁷	10 ⁷	10 ⁷	10 ⁷	107		107	1.75 mc	10 ⁶	10 ⁷	1	10 ⁷	106	1	107	Operate Time/ms	0.5 ms 0.5 ms	2 ms	10 ⁶ 0.5 ms 1 ms	0.5 ms 0.5	ms 0.5 ms
Release Time/ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.2 ms	0.35 ms	0.75 m	S	1.75 ms	1 ms 0.751	ms 1.75 ms	1 ms	1.75 ms 2 ms 1.75 ms 2 ms	1011 0 cc10	1 ms 1 m	ns 1 ms 2 ms	Release Time/ms Insulation Resistance/Ω	0.2 ms 0.2 ms 10 ¹² Ω	1.25 ms 10 ¹⁰ Ω	0.2 ms 0.5 ms 10 ¹² Ω 10 ¹¹ Ω	0.2 ms 0.2 10 ¹² Ω 10 ¹	ms 0.2 ms ² Ω 10 ¹² Ω
	//Ω –	100 Ω –	200 Ω – –	- 300 Ω	300 Ω	250 Ω	- 10 ¹² Ω - 1000	10 ¹² Ω 800 Ω 1600 Ω		-	700 Ω -	- 1000 Ω -	- 2000 Ω				10 ^{ττ} Ω	<u>3V/Ω</u> 5V/Ω	- 250 Ω - 500 Ω	 140 Ω 140 Ω	 400 Ω 500 Ω		- 250 Ω - 0 Ω 500 Ω 375 Ω
Coil 5\ Resistance 12	//Ω 180 Ω	300 Ω	375 Ω 600 Ω	500 Ω 500 Ω 1000 Ω </td <td>500 Ω 500 Ω 000 Ω 1000 Ω</td> <td>500 Ω 375 Ω 1000 Ω 1000 Ω</td> <td>Ω 1500 Ω 2200</td> <td>0 Ω 1600 Ω 30</td> <td>000 Ω 1600 Ω</td> <td>375 Ω</td> <td>1600 Ω 3000 Ω</td> <td>1000 Ω 150 Ω</td> <td>3300 Ω</td> <td>2200 Ω 500 Ω</td> <td>370 Ω 3300 Ω 1000 Ω 4000 Ω</td> <td>2700 Ω</td> <td>370 Ω</td> <td>Coil Resistance 12V/Ω</td> <td>1000 Ω</td> <td>500 Ω 500 Ω</td> <td>1000 Ω 1000 Ω</td> <td>1000 Ω -</td> <td>1000 Ω 1000 Ω</td>	500 Ω 500 Ω 000 Ω 1000 Ω	500 Ω 375 Ω 1000 Ω 1000 Ω	Ω 1500 Ω 2200	0 Ω 1600 Ω 30	000 Ω 1600 Ω	375 Ω	1600 Ω 3000 Ω	1000 Ω 150 Ω	3300 Ω	2200 Ω 500 Ω	370 Ω 3300 Ω 1000 Ω 4000 Ω	2700 Ω	370 Ω	Coil Resistance 12V/Ω	1000 Ω	500 Ω 500 Ω	1000 Ω 1000 Ω	1000 Ω -	1000 Ω 1000 Ω
24	/Ω -				1000 12		-	6000 Ω	- 6000 Ω	3000 Ω	δ000 Ω δ000 Ω 6000 Ω 6000 Ω	6000 Ω 650 Π 6000 Ω 2000 Ω	6800 Ω	3300 Ω	Ω 6800 Ω	6000 Ω	3300 Ω	24V/Ω					

Application				High Switch	ning Power)						
Series Name		114-1-A	114-2-A	114-1-В	100HC-1-A	100HC-2-A	100HC-1-B					
Physical Outli	ine	Contraction of the second			New	Tarte Statistics						
Features			H	lighest Quality Instrument High F	ation Grade Reed Switches							
	Depth		6.3 (0.245)		10.2 (0.40)							
Dimensions	Width	24.1 (0.95)	29.0	(1.14)	24.1 (0.95)	29.0	(1.14)					
min (inches)	Height	8.2 (0.32)	12.5	(0.49)	12.7 (0.50)	15.2	(0.60)					
Footprint (0.1	inch grid)					· · · ·						
Contact Confi	guration	1A (SPST)	2A (DPST)	1B (SPNC)	1A (SPST)	2A (DPST)	1B (SPNC)					
Switch Schem	natic			Ĵ (ÎIII)								
Reed Switch	Туре		High Power Dry Ree	d	High Power Dry Reed							
Switch Numb	er		1		1							
Diode Availab	le		Yes		Yes							
Switching Vol	.tage/V	200V	dc 240Vac (500V min s	stand off)	200Vdc 240Vac (500V min stand off)							
Switching Cu	rrent/A		1 A		1 A							
Carry Current	t/A		3 A		3 A							
Switch Power	-/W		40 W		40 W							
Max Initial Contact Resis	stance/mΩ	150 mΩ	250 mΩ	200 mΩ	200 mΩ	250 mΩ	200 mΩ					
Life	Min Load		10 ⁹		10 ⁹							
Expectancy/	Typical		10 ⁸		108							
operations	Max Load		107		107							
Operate Time	/ms		1 ms			2 ms						
Release Time	/ms		0.5 ms			1 ms						
Insulation Re	sistance/ Ω		10 ¹² Ω		10 ¹² Ω							
	3V/Ω	75 Ω	-	-	-	-	-					
Coil	5V/Ω	250 Ω	150 Ω	350 Ω	500 Ω	300 Ω	300 Ω					
Resistance	12V/Ω	750 Ω	350 Ω	1000 Ω	2000 Ω	1000 Ω	1000 Ω					
	24V/Ω	2000 Ω	1000 Ω	2200 Ω	6000 Ω	4000 Ω	4000 Ω					



| Series Name
Physical Outline | 124-1-A
 | 122-1-A
4mm ² ™ | 120-1-A
4mm ² ™ | 117-1-A 117-2-A
 | 116-1-A 116-2-A Image: Constraint of the second seco | 115-1-A | 115-2-A 11
 | 2-1-A 110-1-A | 113-1-A 113 | 3SP-1-A 113-2-A 113-1 Image: Constraint of the second se | -C 111P-1-A

 | 109P-1-A | 106-1-A 106-1-C | | 05-1-A | 105-1-C 105-1- | 3 105-2-A | 103-1-A & 103M-1-A
 | 111-1-A | 109-1-A 104 | 9-1-C 109-1-B 109-2-A Image: Comparison of the second se | 108-1-A 108-1-C | 108-2-A | 107-1-A | 107-1-C
 | 107-1-B | 107-2-A 107 | 2-C Series Name Image: Physical Outline |
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---|--|---
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---|--|---|--
---|---|---|---|--|
| Features Dimensions Mm (inches) Protect Footprint (0.1 inch grid) Contact Configuration Switch Schematic Reed Switch Type Switch Number Diode Available Switching Current/A Carry Current/A Switch Power/W Max Initial Contact | 3.9 (0.153) 3.9 (0.153) 9.5 (0.375) 1A (SPST) \$\screwthinksymbol{\screwthinksymbol{(0,153)}}\$ Low Level Dry Reed 2 No 170 V 0.5 A 0.5 A 10 W
 | 3.9 (0.153)
3.9 (0.153)
12.5 (0.49)
12.5 (0.49)
1A (SPST)
5
2
Low Level
Dry Reed
2
No
200 V
0.5 A
0.5 A
10 W | 3.9 (0.153) 3.9 (0.153) 15.5 (0.61) 15.5 (0.61) 1A (SPST) ∴ ↓ < | Highest Quality Ins 3.7 (0.145) 6.6 (0.26) 9.9 (0.39) 9.52 (0.375) 1A (SPST) 2A (DPST) IA (SPST) 2A (DPST) Low Level Dry Reed 2 Yes 170 V 0.5 A 0.5 A 10 W
 | Image: system of the system | Witches 3.7 (0 6.6 (0.26) 15.5 (14 (SPST) Image: Strate Str | .145) 3.7 9.9 (0.39) 10.0 0.61) 11.0 2A (DPST) 1A 2A (DPST) 1A 2A (DPST) 1A 0.61 1.0 0.61 1.0 1 2.0 0.7 1.0 0.61 1.2 1 2 0.7 1.0 1 2 1.0 0.5 1.2A 1.2 1.2A 1.2 1.5 10 | High Packing Density (0.145) 3.7 (0.145) (0.395) 10 (0.39) (0.43) 15.2 (0.6) (0.43) 15.2 (0.6) (0.43) 15.2 (0.6) (SPST) 1A (SPST) (SPST) 1.2 A 0 W 20 W 10 W | High Pace
6.6 (0.26
1.4 (SPST) 1.4
1.4 (SPST) 1.4
Low Lev
2
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 | Smalles Scking Density Smalles 3.7 (0.145) 12.5 (0.49) 3.7 (0.145) 12.5 (0.49) 3.7 (0.145) 12.5 (0.49) 3.7 (0.145) 12.5 (0.49) 3.7 (0.145) 12.5 (0.49) 3.7 (0.145) 1.1 C (SPI) (SPST) 2A (DPST) 1C (SPI) (SPST) 2 (SPI) 30 V 0.5 A 0.1 A 0.1 A 10 W 2 W 2 W | High Packin 3.7 (0.145) 10.0 (0.39) 26) 6.6 (0.26) DT) 1A (SPST) DT) 1A (SPST) General Ger DTY Reed 1 Yes 1 Yes 1 170 V 1.1 A 0.5 A 10 W 15(2)
 | ig Density
3.7 (0.145) 15.1 (0.595) 6.6 (0.26) 1.4 (SPST) Image: A straight of the st | Highest Quality Instrume Standard 0.2" Pitch 4.8 (0.19) 19.1 (0.75) 19.1 (0.75) 8.1 (0.32) 1A (SPST) 1C (SPDT) 1A (SPST) 1C (SPDT) Image: Colspan="2">Image: Colspan="2">Colspan="2" 1A (SPST) 1C (SPDT) Image: Colspan="2">Image: Colspan="2" Colspan="2">Colspan="2" Image: Colspan="2">Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: | General Low Dry Level Vol 1 200 V 1 11 A 0.5 A 0.12 A 115(3V), 10 W 10 W 10 | Wide Rang 7.9 (0.31) (SPST) (SPST) igh Standard Mercury Insensitive witch Switch 4 6 500 V 5 5A 2 A 3 A 3 A 0 W 50 W | ge of Configurations 6.6 (0.26) 19.1 (0.75) 11C (SPDT) 1B (SPN) IC (SPDT) 1B (SPN) IC (SPDT) 1B (SPN) IC (SPDT) IB (SPN) IS (SPN) IS W IS (SV) IS W | 10.7 (0.42) C) 2A (DPST) C) 2A (DPST) C) Charlen and an | Low
Capacitance 4.8 (0.19) 19.1 (0.75) 8.1 (0.32) 1A (SPST) IA (SPST) Image: Comparison of the system | 3.7 (0.145) 10.0 (0.39) 6.6 (0.26) 6.6 (0.26) 1A (SPST) IA (SPST) General Dry Reed Dry Reed 11 Yes 170 V 0.5 A 0.5 A 10 W | 3.
15.
6.6 (0.26)
1A (SPST) 1C (
1A (SPST) 1C (
1A (SPST) 1C (
1C (
1A (SPST) 1C (
1C (| 7 (0.145)
.1 (0.595)
8.9 (0.35)
SPDT) 1B (SPNC) 2A (DPST
 | 3.7 (0.145 20.0 (0.79 6.6 (0.26) 1A (SPST) 1C (SPDT) I (SPST) I (SPST) I (SPST) I (SPST) I (SPST) I (SPST) I (SPDT) I (SPDT) < | Highest Quality Instrumentation SoftCenter ™ Construction 0 8.9 (0.35) 8.9 (0.35) 9 2A (DPST) 9 0 2A (DPST) General Low Dry Reed Dry Reed Dry Reed 9 1 2 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | n Grade Reed Switches
n in Mu-Metal Can
7.6 (0.3)
1A (SPST)
1A (SPST)
1A (SPST)
7al Low High Standard
Voltage Mercury
Reed Switch Switch
200 V 400 V 500 V
0.5 A 2 A
1.2 A 3 A
1.0 W 50 W | 4.8 (0. 19.1 (0.75) 19.1 (0.75) 10 10.75 11C (SPDT) 11C (SPDT) | 19)
10
10
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10 | 24.1 0.2 (0.4) 2A (DPST) 2A (DPST) 2C (I Image: Constraint of the second state of the | Features Depth 0.95) Width Height Dimensions
mm (inches) PDT) Footprint (0.1 inch grid) PDT) Contact Co-figuration Switch Schematic Switch Schematic Reed Reed Switch Type Switch Number Diode Available DV Switching Voltage/V SA Switch Power/W Max Initial Switch Power/W |
| Max minute contact Resistance/mQ Life Min Load Expectancy/ Typical operations Max Load Operate Time/ms Release Time/ms Insulation Resistance/Q 3V/Q Coil 5V/Q Resistance 12V/Q Z4V/Q 24V/Q | 180 mΩ 2.5 x 10 ⁸ 10 ⁷ 10 ⁶ 0.2 ms 0.1 ms 10 ¹² Ω 75 Ω 200 Ω - - 114-1-A
 | 180 mΩ 2.5 x 10 ⁸ 10 ⁷ 10 ⁶ 0.2 ms 0.1 ms 10 ¹² Ω 125 Ω 350 Ω - - 114-2-A | 180 mΩ 10° 10° 10° 0.5 ms 0.2 ms 101² Ω 200 Ω 200 Ω 300 Ω 500 Ω 800 Ω 800 Ω - - | 120 mΩ
2.5 x 10 ⁸
10 ⁷
0.3 ms
0.15 ms
10 ¹² Ω
200 Ω -
400 Ω 250 Ω
-
g Power
100HC-1-A
 | 120 mΩ 2.5 × 10 ⁸ 10 ⁷ 0.5 ms 0.2 ms 10 ¹² Ω 250 Ω 500 Ω 750 Ω 750 Ω 750 Ω | 120
100
100
100
100
100
1000 Ω
1000 Ω
-
00HC-1-B
 | mΩ 12
p ⁹
ms 0.
ms 0.
² Ω 11
2
250Ω 375Ω 5
750Ω 750Ω 7
 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 12
2.5
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0 | 20 mΩ 250 m 5×10^8 2.5×1 10^7 10^7 10^6 10^6 0.5 ms 1 ms 0.2 ms 0.2 ms 0.2 ms 0.2 ms $10^{12} \Omega$ 10^{10} ms $ 150 \Omega$ 150Ω | nΩ 150 mΩ 150 10 ⁸ 2.5 x 10 ⁸ 150 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁶ 10 s 0.5 ms 10 Ω 10 ¹² Ω 10 200 Ω 200 Ω 10 Ω 400 Ω 500 - - 10

 | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 120 mΩ 200 mΩ 10° 10° 10° 10° 0.5 ms 1 ms 0.5 ms 1 ms 0.2 ms 0.5 ms 10°2 Ω 10°0 Ω - 500 Ω - - 1000 Ω - - | 150 mΩ 120 mΩ 150 10° 1 1 10° 1 1 10° 1 1 10° 1 1 10° 1 1 10° 1 1 0.5 ms 0 0 0.2 ms 0 0 10° 500 Ω 500 Ω 500 Ω 500 Ω 500 Ω 1000 Ω 3000 Ω 1000 Ω | 0 mΩ 75 mΩ 100 mΩ 0^8 10^7 0^7 10^8 0^6 10^7 15 1.5 ms 1.5 ms 1.5 ms 0.5 1 ms 10^{11} Ω $ 14^0$ Ω 50^0 Ω 15^0 Ω | 200 mΩ 150 mi 10 ⁸ 107 10 ⁶ 1 1 ms 0.5 ms 10 ¹⁰ Ω - - - 500 Ω 1000 Ω 1000 Ω 3000 Ω 3000 Ω 3000 Ω
 | 170 mΩ 150 mΩ 100 m 10° 10° 100 m 10° 10° 10° 0.5 ms 1.5 m 0.2 ms 1 ms 10 ¹² Ω 10 ¹¹ Ω - - 500 Ω 100 Ω 3000 Ω 1000 Ω 1000 Ω 375 Ω | Ω 150 mΩ 120 mΩ 109 108 107 s 0.5 ms 0.2 ms 1012 Ω 0 150 Ω 0 Ω 150 Ω 104-1-B | 150 mΩ 15 2.5 x 10 ⁸ 1 10 ⁷ 1 0.5 ms 1 0.2 ms 1 10 ¹² Ω 1 200 Ω 50 500 Ω 50 - - - - 104-2-A - | 50 mΩ 120 mΩ 250 10° 1 10° 1 10° 1 0.5 ms 0.7 0.2 ms 0.8 10 ¹² Ω 10 - 330 Ω 10 00 (1000 for high insitivity version) 15 1000 Ω - - - - - | 0 mΩ 120 mΩ 140 mΩ 10 ⁸ 10 ⁹ 10 ⁷ 10 ⁸ 10 ⁶ 10 ⁷ 5 ms 0.5 ms 5 ms 0.2 ms 0 ¹¹ Ω 10 ¹² Ω 00 Ω - 200 Ω 375 Ω - - - - 100HV-1-A 10 | 150 mΩ 120 mΩ 200 mΩ 10° 10° 10° 10° 10° 10° 0.5 ms 1 ms 0.2 ms 0.5 ms 10 ¹² Ω 10 ¹⁰ Ω - 330 Ω - 500 Ω - - 0.7 ms 1000 Ω - - | 170 mΩ 150 mΩ 150 mΩ 10° 10° 10° 10° 10°
10° 0.5 ms 10° 10° 0.2 ms 10° 10° 10 ¹² Ω 500 Ω 10° 375 Ω 1000 Ω 10° - - - 500 Ω 62/63-1-A 10° 10° | Ω 120 mΩ 150 mΩ 75 mΩ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 0.5 ms 0.75 2 m 0.2 ms 0.5 ms 10° 10°2 Ω 0.5 ms 10° Ω 500 Ω - - 62/63-1-B 60/65-1-A | 100 mΩ 200 mΩ 10 ⁸ 10 ⁷ 10 ⁷ 10 ⁶ 10 ⁶ 1 10 ⁶ 1 10 ⁷ 10 ⁶ 10 ¹⁰ Ω 1 - - 10 ¹⁰ Ω 1 - - Ω 500 Ω Ω 3000 Ω | 150 mΩ 170 mΩ 10° 10° 10° 10° 0.5 ms 0.2 ms 0.2 ms 10° 1000 Ω 500 Ω 3000 Ω 1000 Ω 3000 Ω 3000 Ω 4000 Ω 3000 Ω | 150 mΩ 100 mΩ 220 1 1 1 1 2 ms 1 1.25 ms 0.5 10 ¹¹ Ω 10 - 20 500 Ω 100 Ω 3000 Ω 375 Ω 1000 Ω 375 Ω 1000 Ω 375 Ω 1000 Ω 500 Ω 67-1-C 68-1-A | mΩMax initial
Contact Resistance/mΩ P^{B} Min Load
TypicalLife
Expectancy/
operations P^{T} Typical
Max LoadLife
Expectancy/
operations P^{T} Max LoadP P^{T} Max LoadCoil
Resistance/Ω P^{T} Insulation Resistance/Ω P^{T} SV/Ω Coil
Resistance P^{T} $24V/\Omega$ Coil
Resistance P^{T} $24V/\Omega$ Coil
Resistance P^{T} $Series$ Name |
| Physical Outline Features Dimensions
mm (inches) Depth Width Height Footprint (0.1 inch grid) Contact Configuration Switch Schematic Reed Switch Type Switch Number Diode Available Switching Voltage/V Switch Power/W Max Initial Contact Resistance/mΩ Life Min Load Expectancy/
operations Typical
Max Load Operate Time/ms Release Time/ms Insulation Resistance/Ω 3V/Ω | 24.1 (0.95) 8.2 (0.32) 1A (SPST) 1A (SPST) 1A (SPST) 130 $00000c$ 14 (SPST) 150 mΩ 150 mΩ | 6.3 (0.245) 29.0 (1.1) 12.5 (0.4) 22.6 (DPST) 22.4 (DPST) 22.4 (DPST) 1 22.4 (DPST) 1 22.5 (0.4) 1 22.6 (DPST) 1 1 24 (DPST) 1 1 250 mΩ 10 ⁹ 10 ⁹ 10 ⁷ 1 ms 0.5 ms 10 ¹² Ω - | Lest Quality Instrumentation High Power 114) .49) 1B (SPNC) | Image: Normal Stress Stres | $ \begin{array}{c c c c c c c c } \hline 10.2 (0.40) \\ \hline 29.0 (1.14) \\ \hline 29.0 (1.14) \\ \hline 15.2 (0.60) \\ \hline 24 (DPST) \\ \hline 24 (DPST) \\ \hline 24 (DPST) \\ \hline 11 \\ \hline 10 \\ \hline 10 \\ 10 \\ \hline 10 \\ 10 \\ \hline 10^{9} \\ 10^{8} \\ \hline 10^{7} \\ \hline 2 ms \\ 1 ms \\ \hline 10^{12} \Omega \\ \hline \hline 10 \\ \hline 1$ | F s | Pickering may be a special part to suit
Pickering to suit
Pickering may be a special part to suit
Pickering to sui | able to adapt an o
your needs. Son
• Specialized
Applications
example, cur
operated rel
• 2-Pole Mercur
relay with cust
pinout, an equ
to a competito
discontinued p | existing relay on
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examples | yS
r design a
re below:
per plated
tches for RF/HF
lications
nd 2 Form A
ilable
the Mercury Wet
re a common
r time is required
reed-relays
ree call
ngrelay.com | 3.7 (0.145) 1 12.5 (0.49) 1 6.6 (0.26) 1 6.6 (0.26) 1 11A (SPST) 1 1000 V 1 107 m0 1 107 1 0.5 ms 1 100 (O) 1 <td>15.1 (0.5
15.1 (0.5
15.1 (0.5
15.1 (0.5</td> <td>3.7 (0.145) 595) 20.1 595) 20.1 5.6 (0.26) - A (SPST) - A (SPST) - A (SPST) - A (SPST) - Jane 1 - Jane 2 3 Min 3kV Min Stand Off - Off Off Off 0ff 2 (L) 2 2 (L) 2 3 (D) - - <</td> <td>I (0.79) I 8.9 (0.35) I 2A (DPST) I 2A (DPST) I I I</td> <td>3.7 (0.145) 1 15.1 (0.595) 1 8.9 (0.35) 1 1B (SPNC) 1 1B (SPNC) 1 11 1.5kV Min Stand Off 2kV Min Stand Off 11 2 1 12 - 1 13 1.5kV Min Stand Off 1 14 1 2 15 1.5kV Min Stand Off 1 16 1 2 17 1 2 18 (SPNC) 1 19 1 1 10 1 1 11 2 1 11 2 1 11 2 1 11 2 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3 1 11 3</td> <td>4.8 (0.19) Highest Qualities 4.8 (0.19) - 19.1 (0.75) - 8.1 (0.32) - 1.1 (0.75) - 1.1 (0.75) - 1.1 (0.32) - 1.1 (0.75) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.1 (0.32) - 1.2 (0.32) 1.5 (0.3 m) 1.5 (0.5 m) 1 (0.5 m) 1.5 (0.2 m) 1.5 (0.3 m) 10¹² (0.10¹² (0</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Image: series of the serie</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>gh Voltage μενν 24 24 24 12 1 1 5kV Min
tand Off
Mercury) 1.5kV Min
Stand Off
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170 ml
170 ml</td> <td>10 W 15(5V), 20 Ω 200 mΩ 10 x 1 10⁸ 10⁸ 10⁸ 10⁸ 10⁸ 10¹² Ω 2700 Ω 6000 Ω 6000 Ω</td> <td>10 W 50 W 180 mΩ 150 mΩ 0° 150 mΩ 1 ms 2 ms 1 ms 2 ms 1 ms 2 ms 10¹¹ Ω - 370 Ω 3300 Ω</td> <td>Max Initial
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Expectancy/
operations Min Load Operate Time/ms Release Time/ms Insulation Resistance/Ω SV/Ω Coil
Resistance 12V/Ω 24V/Ω</td> <td>150 mΩ 120 mΩ 0.5 ms 0.2 ms 0.2 ms 10¹² Ω - 250 Ω 500 Ω 1000 Ω - -</td> <td>150 mΩ 75 mΩ 150 mΩ 75 mΩ 10⁹ 10⁸ 107 0.5 ms 2 ms 0.2 ms 1.25 m 10¹⁰ Ω - - 140 Ω 500 Ω</td> <td>00 mΩ 120 m 100 mΩ 120 m 0.5 m 0.5 m 0.2 m 0.2 m 1012 f - 140 Ω 400 f 500 Ω 1000 f - -</td> <td></td> <td>120 mΩ 120 mΩ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 0.5 ms 0.5 ms 0.2 ms 0.2 ms 10¹² Ω 10¹² Ω - - 750 Ω 250 Ω 1000 Ω - - -</td> <td>100 mΩ 100 mΩ 10⁹ 10⁸ 10⁷ 0.5 ms 0.2 ms 10¹² Ω 250 Ω 500 Ω 375 Ω 1000 Ω 1000 Ω</td> | 20 W 10 W 20 50 mΩ 150 mΩ 150 10^9 108 150 10^8 107 0.5 ms 0.2 ms 1012 Ω - $75 Ω$ 1000 Ω 10 $150 Ω$ - -
 | 0 W 15 W 0 mΩ 120 m 120 mΩ 109 100 109 100 0.6 m 0.35 m 1012 - 1012 - 1012 - 1500 Ω | 10 W 15(3V), 20 ιΩ 150 mΩ ιΩ | 10 W
120 mΩ
1 ms
0.75 ms
10 ¹² Ω
1600 Ω –
10 Ω 3000 Ω
10 Ω –
10 Ω – | 50 V
150 mΩ 75 m
10 ⁹
10 ⁸
10 ⁷

1600 Ω
6000 Ω

 | V 50 W
Ω 100 m
1.75 ms
1.75 ms
10 ¹¹ Ω
-
375 Ω
1000 Ω
3000 Ω | 3 W 15(5V) Ω 200 mΩ 10 ⁸ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶ 1 11,25 ms 1 1 ms 1 10 ¹⁰ Ω 1 700 Ω 1 6000 Ω 6000 Ω | 20 10 W 15(5V), 20 150 mΩ 170 mΩ 150 mΩ 170 mΩ 10° 10° 10° 10° 10° 10° 1 ms 10° $0.75 ms$ 10° 10°2 Ω - 3000 Ω 100 6000 Ω 300 | 10 W 50 W 150 mΩ 100 mΩ 150 mΩ 100 mΩ ms 1.75 ms 1.75 ms 1.75 ms 100 Ω - 100 Ω - 100 Ω 450 Ω 100 Ω 2000 Ω | 15(5V), 20 150 mΩ 150 mΩ 120 mΩ 120 mΩ 1 1 1 1 1 1 1 1 1 1012 Ω - 2000 Ω 3300 Ω 6800 Ω 6800 Ω | 0 W 50 W
150 mΩ 100 mΩ
10 x 10 ⁹
10 ⁸
10 ⁷
1.75 ms 2 ms
1.75 ms 2 ms
1.75 ms 2 ms
1.75 ms
2.200 Ω 500 Ω
2200 Ω 500 Ω
 | 50 W 3 W 120 mΩ 200 mΩ 10 ⁸ 10 ⁷ 10 ⁶ 10 ⁶ 1 ms 10 ¹⁰ Ω - - 370 Ω 3300 Ω 1000 Ω 6800 Ω | 15(5V), 20
170 ml
170 ml | 10 W 15(5V), 20 Ω 200 mΩ 10 x 1 10 ⁸ 10 ⁸ 10 ⁸ 10 ⁸ 10 ⁸ 10 ¹² Ω 2700 Ω 6000 Ω 6000 Ω | 10 W 50 W 180 mΩ 150 mΩ 0° 150 mΩ 1 ms 2 ms 1 ms 2 ms 1 ms 2 ms 10 ¹¹ Ω - 370 Ω 3300 Ω | Max Initial
Contact Resistance/mΩ Life
Expectancy/
operations Min Load Operate Time/ms Release Time/ms Insulation Resistance/Ω SV/Ω Coil
Resistance 12V/Ω 24V/Ω | 150 mΩ 120 mΩ 0.5 ms 0.2 ms 0.2 ms 10 ¹² Ω - 250 Ω 500 Ω 1000 Ω - - | 150 mΩ 75 mΩ 150 mΩ 75 mΩ 10 ⁹ 10 ⁸ 107 0.5 ms 2 ms 0.2 ms 1.25 m 10 ¹⁰ Ω - - 140 Ω 500 Ω
 | 00 mΩ 120 m 100 mΩ 120 m 0.5 m 0.5 m 0.2 m 0.2 m 1012 f - 140 Ω 400 f 500 Ω 1000 f - - | | 120 mΩ 120 mΩ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° 0.5 ms 0.5 ms 0.2 ms 0.2 ms 10 ¹² Ω 10 ¹² Ω - - 750 Ω 250 Ω 1000 Ω - - - | 100 mΩ 100 mΩ 10 ⁹ 10 ⁸ 10 ⁷ 0.5 ms 0.2 ms 10 ¹² Ω 250 Ω 500 Ω 375 Ω 1000 Ω 1000 Ω |

Pickering Reed Relay Finder - 2022

Key Benefit	Pickering Ree	Typical Industry I				
Instrumentation Grade Reed Switches	Instrumentation Grade Reed Switches with vacuum sputtered Ruthenium plating to ensure stable, long life up to 5x10E9 operations.		Often low grade Reed Switches w Rhodium plating resulting in high resistance.			
2 Formerless Coil Construction	Formerless coil construction increases the coil winding volume, maximizing magnetic efficiency, allowing the use of less sensitive reed switches resulting in optimal switching action and extended lifetime at operational extremes.	Pickering former-less coil Typical industry coil wound on bobbin	Use of bobbins decreases the coil resulting in having less magnetic more sensitive reed switches whi stable with greatly reduced resto			
3 Magnetic Screening	Mu-metal magnetic screening (either external or internal), enables ultra-high PCB side-by-side packing densities with minimal magnetic interaction, saving significant cost and space. Pickering Mu- Metal magnetic screen - interaction approx. 5%	X-Ray of Pickering mu-metal magnetic screen	Lower cost reed relays have mini screening, resulting in magnetic i causing changes in operating and timing and contact resistance, can operate at their nominal voltages Typical industry screen - interact			
4 <i>SoftCenter</i> [™] Technology	SoftCenter [™] technology, provides maximum cushioned protection of the reed switch, minimising internal lifetime stresses and extending the working life and contact stability.	Pickering soft center protection of the reed switch	Transfer moulded reed relays (pr temperature/pressure), result in to the glass reed switch which ca blades to deflect or misalign lead operating characteristics, contact and operating lifetime.			
5 100% Dynamic Testing	100% testing for all operating parameters including dynamic contact wave-shape analysis with full data scrutiny to maintain consistency.	Dynamic Contact Resistance Test	Simple dc testing or just batch ter in non operational devices being s			
6 100% Inspection at Every Stage of Manufacturing	Inspection at every stage of manufacturing maintaining high levels of quality.		Often limited batch inspection.			
7 100% Thermal Cycling	Stress testing of the manufacturing processes, from -20°C to +85°C to -20°C, repeated 3 times.	+85°C -20°C	Rarely included resulting in field			
8 Flexible Manufacturing Process	Flexible manufacturing processes allow quick-turn manufacturing of small batches.	FAST	Mass production: Usually large b quick-turn manufacturing.			
9 Custom Reed Relays	Our reed relays can be customized easily, e.g. special pin configurations, enhanced specifications, non-standard coil or resistance figures, special life testing, low capacitance, and more.		Limited ability to customize.			
10 Product Longevity	Pickering are committed to product longevity; our reed relays are manufactured and supported for more than 25 years from introduction, typically much longer.	Product 25+Years Longevity	Most other manufacturers discon reach a low sales threshold; costi a great deal of unnecessary time and maintain supply.			

Reed Relay Types

Changeover Reeds

Reed relays can be supplied with changeover switches – the reed switch has a normally closed contact (when no magnetic field is applied) and a normally open contact (which closes when the field is applied). The reed switch closed contact uses the blade as a spring bias with a non ferrous spacer to avoid completing a magnetic circuit. The coil field moves the blade to the normally open contact blade which does not have this spacer. As the reed relay switch blades transition between the two states for a brief period neither contact is closed – and important consideration in some applications.

The normally closed position relies on contact pressure being created by the spring bias of the blade. As well as being much harder to manufacture than normally open reed relays the two contacts, normally closed and normally open, can have quite different characteristics and stability. Experience is generally



that they have a slightly less stable contact resistance than their simpler normally open counterparts. Even so, they perform a useful function for many applications because unlike the use of two normally open reed relays used to create a changeover function they only need one coil drive and it is mechanically not possible to have both contacts closed at the same time.

Two Pole Relays

Reed relays can also be supplied as 2 pole relays where two reed switches are contained in the same package and operated by a common coil drive.

It is important to remember that these relays do not have an interlock mechanism between the two, it is unsafe to assume that that the two poles operate at exactly the same time and the two reed switches are essentially independent. There could be an operate time difference of between 50 - 250 microSeconds between them. Failure in one (say a contact weld) will not stop the other contact from moving.



Mercury Reed Relays

There is a class of reed relays that has been historically very popular where the reed contacts include mercury that provides the electrical contact between the blades. The mercury is provided by a small reservoir which blade actuation tends to pump up a grooved surface on the reed blade to the contact area using mercury's high surface tension to retain the material.

Selective chrome plating is often used in the construction since mercury and chrome do not stick together and this is used to help control the mercury.

The glass envelope of mercury relays is also highly pressurised (typically 12 to 14 bar) which helps to manage the switch materials and operation and to improve electrical parameters.

These relays are strongly preferred in some industries because they have a long contact life and bounce free contact closure – a feature that is particularly helpful under hot switch conditions. Stability of low contact resistance during their operational life is considered to be better than that of dry reed relays.

Most types of mercury reed relays are position sensitive – they can only be used in a vertical orientation. Some non position sensitive versions are also available which can be used in any orientation. Mercury wetted relays however are not RoHS compliant and national regulations may limit their use to certain critical applications where exceptions on RoHS have been granted.

High Voltage Reed Relays

High voltage reed relays in addition to having to ensure high clearance distance (including the distance between the contacts in the reed switch) have to have a carefully match operating environment and different contact materials to resist the contact erosion that occur when switching the signals. High voltage reed switches commonly use tungsten or rhodium contacts.

The glass envelope for high voltage reed switches is normally a very hard vacuum to maximise the voltage rating for a given blade separation and to manage arc duration as the contacts open or close. Any loss of seal will rapidly degrade the switch operation so reed switches have to be carefully managed as they are packaged into reed relays.

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Pickering Electronics' Reed Relay range is available on request.

on request.

Go to: pickeringrelay.com/samples

To learn more visit: **pickeringrelay.com/softcenter**

Reed Relay Finder

- Highest Quality Instrumentation Grade Reed Switches
- Coaxial/RF/High Speed Digital
- Ultra High Packing Density
- Direct Drive from CMOS
- *SoftCenter*[™] Technology
- Up to 50W Switching
- Custom Reed Relays
- Low Thermal EMF
- Low Capacitance
- High Voltage
- High Power

SoftCenter[™]

The **Reed Relay Finder** is a single sheet reference to Pickering's high quality range of Reed Relays, including their basic specifications.

pickering**relay.**com

About Pickering Electronics

Pickering Electronics was formed in January 1968 to design and manufacture high quality reed relays, intended principally for use in instrumentation and automatic test equipment.

Today, the UK facility is responsible for Product Development, Technical Back-up, Sales, Marketing and Administratio

Manufacturing is shared between the UK factory and a large modern plant in Trinec, Czech Republic, with strict Quality Control and ISO 9001 certification at both facilities. Pickering Electronics s.r.o. is 100% owned by Pickering Electronics Ltd., England.

Pickering Electronics offer an extensive range of high quality instrumentation grade reed relays designed for applications requiring the highest levels of performance and reliability at an affordable price. Through the experience of supporting the most demanding manufacturers of large ATE systems with high relay counts the company has refined its assembly and quality control methods to optimise its manufacturing methods.

Working with its sister company, Pickering Interfaces (pickeringtest.com), Pickering Electronics has developed innovative reed relay solutions designed to provide high coil efficiency, low switch volume and low PCB footprint solutions to meet the demands of modern equipment manufacturers.

Faster Switching Speeds | Extended Lifetime | Use 75% Less PCB Space

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For a full list of agents and representatives visit: pickeringrelay.com/agents Pickering Electronics maintains a commitment to continuous product development. consequently we reserve the right to vary from the descriptions given in this document.

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