



Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		450	500	550	Ohm
Coil voltage			12		VDC
Rated power			288		mW
Pull-In voltage				8,4	VDC
Drop-Out voltage		1,8			VDC

Contact Data 85	Conditions	Min	Typ	Max	Unit
Contact rating	Any DC combination of V & A not to exceed their individual max.'s			100	W
Switching voltage	DC or Peak AC			1.000	V
Switching current	DC or Peak AC			1	A
Carry current	DC or Peak AC 100% Duty Cycle			2,5	A
Pulsed carry current	DC or Peak AC 5ms after coil excitation for 50ms max.			3	A
Contact resistance static	Measured with 40% overdrive			150	mOhm
Contact resistance dynamic	Maximum value 1,5 ms after excitation			200	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			GOhm
Breakdown voltage		4			kV DC
Operate time incl. bounce	measured with 40% overdrive			1,1	ms
Release time	measured with no coil suppression			0,1	ms
Capacitance	@ 10 kHz across open switch		0,5		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Dielectric Strength Coil/Contact	according to EN 60255-5	4			kV DC
Housing material				epoxy resin	
Connection pins				FeNi42, tin plated	
Magnetic Shield				Internal Mu Metal Shield	
Reach / RoHS conformity				yes	



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Item No.:
3312185478
Item:
SHV12-1A85-78L4K
SIL12-1A85-78L4K

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine, duration 11ms, in 3 axis			50	g
Vibration	from 10 - 2000 Hz			20	g
Operating temperature		-40		105	°C
Storage temperature		-40		125	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability				fully sealed	

General data	Conditions	Min	Typ	Max	Unit
Packaging				Tube per 20 pcs.	

Modifications in the sense of technical progress are reserved

Designed at: 27.06.14 Designed by: ABURGESS
Last Change at: 05.06.15 Last Change by: THAUKE

Approval at: 27.06.14 Approval by: TLANE
Approval at: 09.06.15 Approval by: JHEYDER

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