



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	Difference value 1,5 ms after excitation			200	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			GOhm
Breakdown voltage		2			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			
Approval		UL-File No. NRNT2.E156887			
Approval		UL-File No. NRNT8.E156887			
Reach / RoHS conformity		yes			



Europe: +49 / 7731 8399 0

| Email: info@standexmeder.com

USA: +1 / 508 295 0771

| Email: salesusa@standexmeder.com

Asia: +852 / 2955 1682

| Email: salesasia@standexmeder.com

Item No.:

3312185578

Item:

SHV12-1A85-78D2K

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: 09.09.13 Designed by: ABURGESS

Approval at: 15.09.16 Approval by: DSTASTNY

Last Change at: Last Change by:

Approval at: Approval by:

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