KRPA Series Panel Plug-in Relay

- 5 to 10A current capability
- Contact arrangements of 1, 2 and 3 form C (CO)
- Octal type termination for quick installation
- Indicator lamp available on certain models

TranSystems — Vermont Agency of Transportation
Lyndon STPG SGNL(48) Project

	Approved
	Fabrication/Installation may be undertaken
X	**Approved as Corrected**
	Approval provided comments are incorporated
	Correct, Revise and Resubmit
	Fabrication/Installation MAY NOT be undertaken
	No Action Taken

Review / approval does not relieve the contractor from complying with all the requirements of the contract

1

Approvals

UL E22575; CSA LR15734
Technical data of approved types on request

Contact Data

Contact arrangement	1 form C (CO), 2 form C (CO), 3 form C (CO)	
Rated voltage	240VAC	
Rated current	10A	
Contact material	Ag	AgCdO
Min. recommended contact load	100mA, 12VDC	300mA, 12VDC
Frequency of operation	360 ops./hour	360 ops./hour

Contact ratings

Type	Load	Cycles
UL 508		
KRPA, Ag		
	5A, 120VAC	$100x10^3$
	3A, 240VAC	$100x10^3$
	1/10HP, 120VAC	$1x10^3$
	1/6HP, 240VAC	$1x10^3$
KRPA, AgCdO		
	10A, 240VAC	$100x10^3$
	1/3HP, 120VAC	$1x10^3$
	1/2HP, 240VAC	$1x10^3$
KA, Ag		
	5A, 120VAC	
	3A, 240VAC	
	1/10HP, 120VAC	
	1/6HP, 240VAC	
KA, AgCdO		
	10A, 120VAC	
	6A, 240VAC	
	1/6HP, 120VAC	
	1/3HP, 240VAC	
Mechanical endurance	$10x10^6$ ops	

Coil Data

Coil voltage range	6 to 220VDC 6 to 240VAC
Coil insulation system according UL	Class B

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Coil resistance Ω±10%	Rated coil power W
6	6	4.5	32	1.15
12	12	9.0	120	1.2
24	24	18.0	472	1.25
48	48	36.0	1800	1.3
110	110	82.5	10000	1.2
–	220	Use 110V relay with 10KΩ, 5W resistor in series		

All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil Data (continued)

Coil versions, AC coil

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance Ω±15%	Rated coil power VA
6	6	5.1	6	2.01
12	12	10.2	24	2.02
24	24	20.4	85	2.02
20	120	102.0	2250	2.1
240	240	204.0	9110	2.1

All figures are given for coil without preenergization, at ambient temperature +23°C.

Insulation Data

Initial dielectric strength	
between open contacts	$1000V_{rms}$
between contact and coil	$1000V_{rms}$
between adjacent contacts	$1000V_{rms}$
Initial insulation resistance	
between insulated elements	KRPA: 1000MΩ KA: 100MΩ

Other Data

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Ambient temperature	
DC coil	KRPA: -45°C to 70°C KA: -45°C to 85°C
AC coil	KRPA: -45°C to 55°C KA: -45°C to 70°C
Category of environmental protection	
IEC 61810	RTI - dust protected KRPA and RTO - open style KA
Terminal type	KRPA: 8- or 11-pin octal type plug KA: solder terminals
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs

Accessories

For details see datasheet — Sockets and Accessories, KRPA Relays

Product Code	Description
27E891	Two pole DIN socket (use 20C318 clip)
27E892	Three pole DIN socket (use 20C318 clip)
27E122	Two pole track mount socket (use 20C318 clip)
27E123	Three pole track mount socket (use 20C318 clip)

1 - Relays shall conform to Special Provision Section 63 ACTIVE WARNING SYSTEM MATERIALS (j) Miscellaneous Products and Components Part 29 Vital Relays (see attached pgs 57 and 58) and shall each be clearly marked with a registration plate.

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section