ELECTROMATIC CONTROLS

49E D

Quechomatic

00 240 .50

■ 3373024 0005938 568 ■ EFEC **♦ RP 1x0 240-0.5-x**

T.25-31

AC solid state relays for PCB mounting.

Zero switching. •

- •
- ٠
- ٠
- •

SPECIFICATIONS

Input	RP 110 240-0.5-5 RP 120 240-0.5-5	RP 100 240-0.5-0
Control voltage range Pick up voltage, max. Drop out voltage, min. Reverse voltage, max. Resp. time pick up, max. Resp. time drop out, max. Input impedance	3-16 VDC 3 VDC 1 VDC 6 VDC 1/2 cycle 1/2 cycle 1.5 KΩ	3-32 VDC 3 VDC 1 VDC 6 VDC 1/2 cycle 1/2 cycle 1.5 KΩ
Output		
Load current, max. Load current, min. Overload current	0.5 A _{PMS} 3 mA _{RMS}	
t=1 s, max. Non-rep. surge current	2 A	
t≕20 ms, max. Off-state leakage current @ rated voltage, max.	10 A _p 2 mA _{BMS}	
l ² t for fusing t=10 ms, max. di/dt, max.	0.2 A ² s 25 A/μs	
On-state voltage @ rated current, max. dV/dt Off-state, max. dV/dt Comm., max.	3.5 V _{PMS} 15 V/μs 15 V/μs	
Line voltage range Non-rep. voltage, max. Zero voltage turn-on, max. Line frequency range Power factor, min.	24-280 VAC 650 V _p \pm 20 V 45-65 Hz < 0.5. For pf < 0.5 use snubber circui R=100 Ω , C=47 ni	it,

Thermal data

Operating temp. range	-40 to +100°C
Storage temp. range	-40 to +100°C
Junction temperature, max.	115°C
Thermal resistance	
junction-ambient, max.	40°C/W
Thermal resistance	
junction-case, max.	20.5°C/W

WIRING DIAGRAM



♦ Items not produced by the holder of the ISO 9001 certificate

Isolation

Input-output
Voltage
Resistance, min.
Capacitance, max.

4000 VAC_{RMS} 10¹⁰ Ω 5 pF

ORDERING KEY

ELECTRO	MATIC CONTROLS	49E D	35130 2	4 0002840	T80 melec
	100: Zero switching, housing A 110: Zero switching, housing B 120: Zero switching, housing C	Line voltage 240: 24-280 VAC	Load current 0.5: 0.5 A	Control voltage 5: 3-16 VDC 0: 3-32 VDC	T-25-31
⊘ R P	100 110 120	240	-0.5	-5 -0	

Note:

Not all types are available. See specifications.

Derating curve



Non-repetitive surge current curve f=50 Hz

The curve is only applicable in case of faults such as completely or partly short-circuited loads. The curve is *not* applicable for normal operation.

Peak surge current



MECHANICAL DATA



Powered by ICminer.com Electronic-Library Service CopyRight 2003