

Double Mini Relay DMR

Limiting continuous current 30 A

Typical applications Car alarm, door control, door lock, immobilizer, seat control, sun roof, window lifter, wiper control.



Coil Data

Coil code

001

002

Coil voltage range	-40 to +85°C
Rated coil voltage	12VDC

Release

voltage

VDC

1.0

0.8

Coil

resistance

Ω±10%

255

178

Rated coil

power

mW

565

809

Operate

voltage

VDC

6.9

5.8

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

Contact arrangement	2 form	C, 2 CO			
Rated voltage	12VDC				
Rated current	both	motor			
	systems	reverse ¹⁾²⁾			
	20/20A	30/30A			
Limiting continuous current					
at 23°C	20/20A	30/30A ²⁾			
at 85°C	15/15A	30/30A			
Limiting making current ¹⁾	35A	35A			
Limiting breaking current ¹⁾	35A	35A			
Contact material	AgSnO ₂				
Min. recommended contact load	1A at 5VDC ³⁾				
Initial voltage drop at 10A, typ./max.	. 30/300mV				
Operate/release time max. at nominal voltage typ. 3/1.3ms ⁴⁾					
Electrical endurance					
at cyclic temperature -40/+23/+85°C an	d				
13.5VDC, both systems, motor reverse I	olocked,				
25A, 0.77mH inductive	>10	⁵ ops.			
AgSnO ₂ , lamp load, 45A (on), 8A (off), 80	℃ >2x1	0 ⁵ ops.			
AgSnO ₂ , resistive load, 20A, 80°C	>2x1	0 ⁵ ops.			
Mechanical endurance	>10 ⁷ o	perations			
1) The values apply to a resistive or inductive load v	vith suitable spark s	uppression and at			

maximum 13.5VDC for 12VDC load voltages.

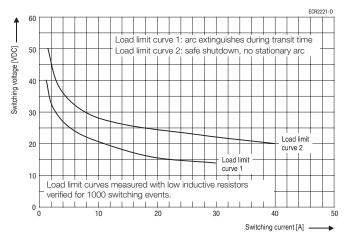
2) At 50% ON period: max. make time 15s.

Contact Data

See chapter Diagnostics of Relays in our Application Notes or consult the internet at 3) http://relays.te.com/appnotes/

4) For unsuppressed relay coil. A low resistive suppression device in parallel to the relay coil increases the release time and reduces the lifetime caused by increased erosion and/or higher risk of contact tack welding.

Max. DC load breaking capacity



02-2014, Rev. 0214 www.te.com © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company.

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

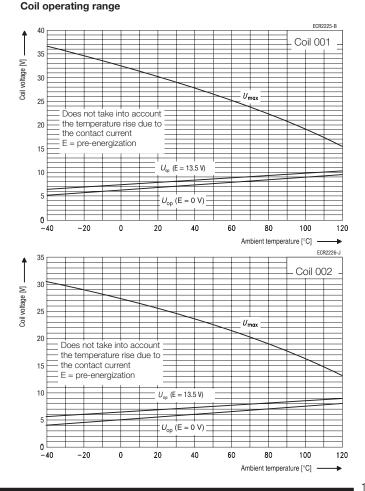
Coil versions, DC coil Rated

voltage

VDČ

12

12



Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



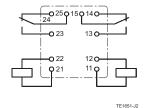
Double Mini Relay DMR (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	500VAC _{rms}
between contact and coil	500VAC _{rms}
Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40 to 85°C
Cold storage, IEC 60068-2-1	1000h; -40°C
Dry heat. IEC 60068-2-2	1000h; +125°C
Temperature cycling (shock)	,
IEC 60068-2-14. Na	1000 cycles; -40/+125°C
Temperature cycling	
IEC 60068-2-14, Nb	35 cycles; -40/+125°C
Damp heat cyclic	,
IEC 60068-2-30, Db, Variant 1	6 cycles 25°C/55°C/93%RH
Damp heat constant	2
IEC 60068-2-3, Ca	56 days 40°C/95%RH ⁵⁾
Category of environmental protection	,
IEC 61810	RT III - immersion cleanable
Sealing test	
IEC 60068-2-17	Qc, method 2, 1min, 70°C
Vibration resistance (functional)	
IEC 60068-2-6 (sine sweep)	10 to 200Hz; 6to 30g ⁶⁾
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	6ms; 30g ⁶⁾
Shock resistance (destructive)	
IEC 60068-2-29 (half sine)	30g: 6ms, 105 shocks
	100g: 2ms, 10 shocks
Terminal type	PCB
Weight	approx. 10g (0.35oz)
Solderability (aging 3: 4h/155°C)	
IEC 60068-2-20	Ta, method 1, hot dip 5s, 215°C
Resistance to soldering heat THT	
IEC 60068-2-20	Tb, method 1A, hot dip 10s, 260°C
	with thermal screen
Deelvesinguneit	000 000

Terminal Assignment

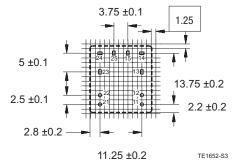
Bottom view on solder pins

2 form C contacts, 2 CO



PCB Layout

Bottom view on solder pins

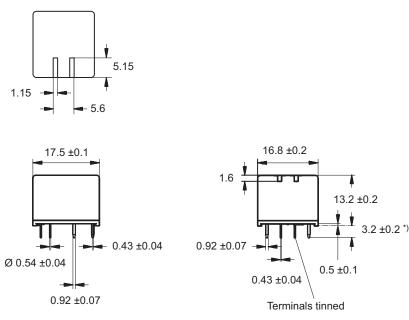


Packaging unit

5) Relays have to be dried at 85°C for 24 hours after test.

6) depending on mounting position: no change in the switching state >10µs.

Dimensions



600 pcs.

*) Additional tin tops max. 1mm

TE1650-B3

02-2014, Rev. 0214 www.te.com © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company.

2

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



Double Mini Relay DMR (Continued)

Prod	uct co	de structure		Typical product code	V23084	-C	2	001	-A	4	03
Туре	V2308	4 Double Mini Relay DMR]						
Termi	nal and	enclosure									
	С	PCB version, sealed									
Desig	n						-				
-	2	Double relay									
Coil								1			
	001	Standard (THT)	002	Sensitive (THT)							
Conta	ct type	•		· · ·					•		
	Α	Single contact									
Conta	ct mat	erial									
	4	AgSnO ₂									
Conta	ct arra	ngement									
	03	1 form C, 1 CO									

Product code	Terminal/Encl.	Design	Coil	Contact	Cont. material	Arrangement	Part number
V23084-C2001-A403	PCB, immersion	Double	Standard (THT)	Single	AgSnO ₂	2 form C, 2 CO	0-1393267-6
V23084-C2002-A403	cleanable		Sensitive (THT)				1-1393267-2

3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: V23084C2001A303 V23084C2001A303-USBX