SANYOURELAYS
Relaysforadvancedtechnology

MiniatureHigh PowerRelay

SZ- Series

Features

- ●High switching capability : 16 A.
- ●Smallsize fordensity PCB mounting.
- ●Dielectric strength : 5000 V.

SafetyApproval

UL , C-ULFileNo . : E190598

TUVFileNo . : R50226154

CQCFileNo. : CQC07001018779

VDEFileNo. : 40036033

ContactCapacity

Model	SZ -DM & LM	SZ -D & L
Nominalswitchingcapacity (res . load)	16A&17 A 277 VAC	NO/NC 16A&17 A/10 A 277 VAC
Max . switchingcurrent	20A	17A
Max . switchingvoltage	277VAC	277VAC
Max . switchingpower	5,540VA	4,709VA

Chara cteristicData

Contactmaterial	Silveralloy	
Initialcontactresistance (at 6VDC 1A)	100m ΩMax.	
Operatetime (atnominalvolt .)	20msec . Max .	
Releasetime (atnominalvolt .)	8msec . Max .	
Initialinsulationresistance	100 M Ω Min .(DC500 V)	
Initialdielectricstrength	Betweenopencontacts : AC 1,000 V , 50/60 Hz 1Min .	
	Betweencoilandcontact : AC 5,000 V , 50/60 Hz 1Min .	
Vibrationresistance	Functional	10 ~ 55Hzatdoubleamplitudeof 1.5 mm
	Destructive	10 ~ 55Hzatdoubleamplitudeof 1.5 mm
Shockresistance	Functional	10G Min .
	Destructive	100 G Min .
Endurance (operations)	Mechanical (at 10,800 ops ./h)	10,000,000
	Electrical (at 360 ops ./h)	100,000
Ambienttemperature	-40℃ ~ +105℃(nocondensation)	
Unitweight	Approx .12.8 g	

CoilData (at 20℃)

Nominal voltage (VDC)	Nominal operating current 10%(mA)	Coil resistance 1 0%(Ω)	.Max allowable voltage	Pick -up voltage (Max .)	Drop -out voltage (Min .)	Nominal operating power
3	240.00	12.5	130%of nominal voltage	80%of nominal voltage	5%of nominal voltage	.Approx 0.72W
5	144.00	36				
6	120.00	50				
9	80.00	112				
12	60.00	200				
18	40.00	450				
24	30.00	820				
48	14.50	3,300				

CoilData (at20℃)

Nominal voltage (VDC)	Nominal operating current 1 0%(mA)	Coil resistance 1 0%(Ω)	.Max allowable voltage	Pick -up voltage (Max .)	Drop -out voltage (Min .)	Nominal operating power
3	180.00	17	130%of nominal voltage	80%of nominal voltage	5%of nominal voltage	.Approx 0.53W
5	108.00	47				
6	90.00	68				
9	60.00	150				
12	45.00	270				
18	30.00	600				
24	22.50	1,100				
48	10.90	4,400				

SafetyApprovalRatings

Approval	CQC	TUV	VDE	UL/CUL
FileNo.	CQC07001018779	R50226154	40036033	E190598
Approved ratings	16A 250VAC 10A 277VAC,NC 17A 277VAC,NO	Form A 16A 250 VAC 16A 30VDC FormC 16A/10 A 250VAC 16A/10 A 30VDC	17A 277 VAC , NO 10A 277 VAC , NC	16A 240 VAC, ResistiveNO &NC 16A 240 VAC , GeneralUseNO, 5A 120 VAC /24 VDC , Resistive &GeneralUse , NO&NC 17A 277 VAC /30 VDC , Resistive &GeneralUse , NO&NC TV-8120 VAC,NO

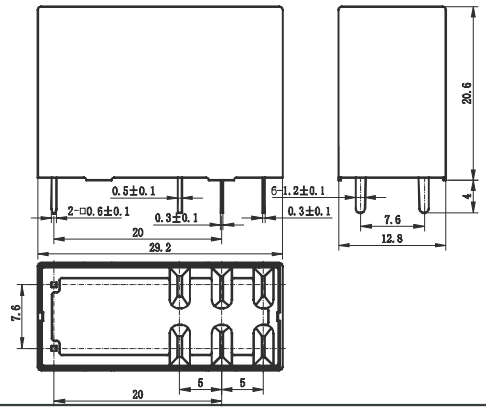
OrderingInformation

Nomenclature

SZ - S -1 12 D M 1 - F - XX

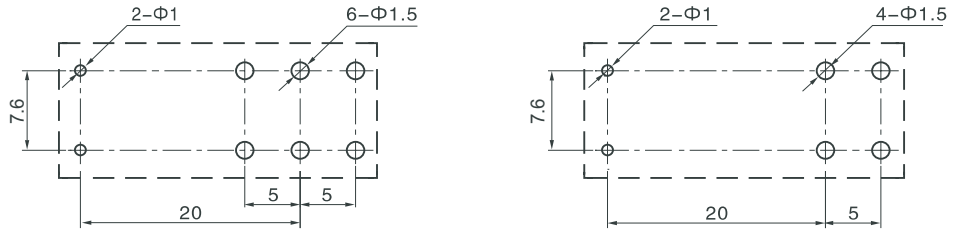
- SpecialParameter : Nil-Standardtype , Letteror number -Specialrequirement
- InsulationSystem : Nil-Standard , B-ClassB , F-ClassF
- ContactMaterial : Nil-AgSnO2,1- AgCdO
- ContactForm : Nil-FormC , M -FormA
- CoilPower : D-0.72W, L-0.54W
- CoilVoltage (VDC) : 03,05,06,09,12,18,24,48
- NumberofPoles : 1-1 Pole
- ProtectiveConstruction : S Fluxproofed , SH-Sealedtypewashable
- TypeDesignation : SZ

OutlineDimensions , WiringDiagram , PC .BoardLayout (unit mm)



Unlessotherwisespecified :
Ifdimension < 1mm , tolerance : 0.2 mm ;
Ifdimension 1~5 mm , tolerance : 0 .3 mm;
Ifdimension > 5mm , tolerance : 0.4 mm .
Note : 1. Extendedterminaldimensionisdimension beforesoldering.
2. ToleranceofP .C.B. layout : 0 .1 mm.

1c WiringDiagram (bottomview) 1a



1c 1a

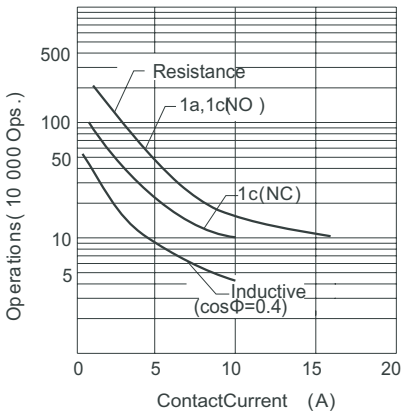
PCB . Layout (bottomview)

TypicalApplications

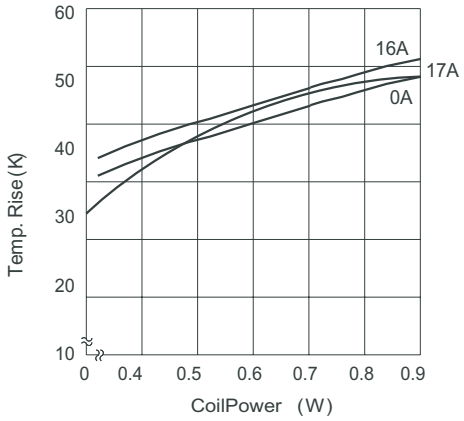
●Homeappliances , airconditioner ,microwaveoven ,audioequipment ,monitor ,industrialcontrol equipment , instrument ,etc .

CharacteristicCurves

EnduranceCurve



CoilTemp . Rise



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