

OTX102F	Power relay
	Features ● 25A switching capability ● Suitable for switching motor load ● Dustproof cover type package structure ● Printed plate and quick connection pins ● Outline Dimensions: (30.1×15.7×33.3) mm (30.1×15.7×26.2) mm

CONTACT DATA

Contact arrangement	1A
Contact resistance ⁽¹⁾	≤100mΩ(1A 6VDC)
Load	Resistive load (COS φ =1)
Contact material	AuAg
Contact rating	20A/250VAC 1HP/120VAC 2HP/240VAC
Minimum load (1)	100mA 5VDC
Max. switching voltage	250VAC
Max. switching current	20A
Max. switching power	5000VA
Mechanical endurance	1x10 ⁷ OPS(at 300 beats/min)
Electrical endurance	1x10 ⁵ OPS(at 300 beats/min)

CHARACTERISTICS

Insulation resistance	100mΩ(500VDC)	
Dielectric strength	Between coil & contacts	4500VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at rated. volt.)	20ms	
Release time (at rated . volt.)	10ms	
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance	10-55Hz, 1.5mm	
Humidity	40%~85%	
Ambient temperature	-40℃~85℃	
Max. switching frequency	Electrical life: 1800 times/hour	
	Mechanical life: 18000 times/hour	
Unit weight	23g	

Notes:(1) minimum application load is a reference value;

(2) Electrical durability is the test data of normally open contact or normally closed contact

COIL	at 20℃			
Coil power	0.9W/1.4W			
COIL DATA				
0.9W				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage (mA)	Coil Resistance ±10%
5	≤3.75	≥0.25	180	27.8
6	≤4.5	≥0.30	150	40
9	≤6.75	≥0.45	100	90
12	≤9.00	≥0.60	75	160
18	≤13.5	≥0.90	50	360

24	≤18.0	≥1.20	37.5	640
48	≤36.0	≥2.40	18.8	2560
1.4W				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage (mA)	Coil Resistance ±10%
5	≤3.75	≥0.25	280	17.9
6	≤4.5	≥0.30	233	25.7
9	≤6.75	≥0.45	156	57.9
12	≤9.00	≥0.60	117	103
18	≤13.5	≥0.90	78	231
24	≤18.0	≥1.20	58	411
48	≤36.0	≥2.40	29	1646

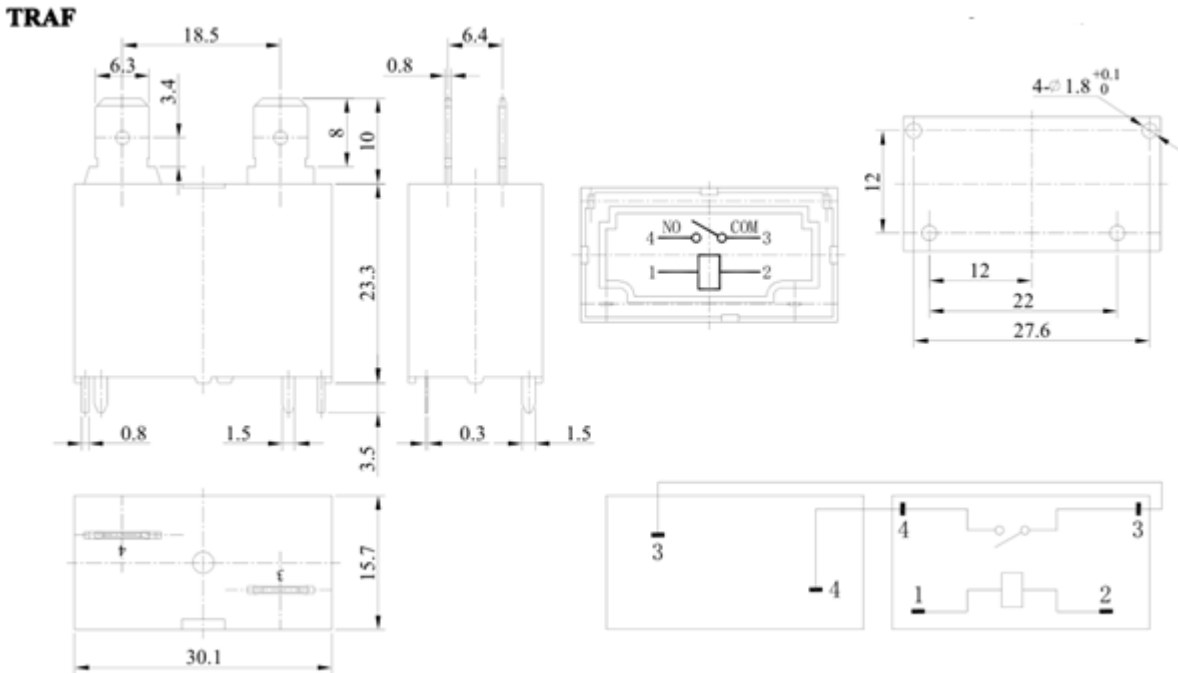
ORDERING INFORMATION

	OTX102F	-L	-5V	-1A	-S	-	xxx
Type							
Coil power	L:0.9W;M:1.4W						
Coil voltage	5,6,9,12,18,24,48(VDC)						
Contact arrangement	1A:1FormA						
Construction :	S: dustproof type SH : Flux proofed						
The leakage end feet	Nil: Exposed end foot, package type: S Installation type: PCB&QC P: no exposed end foot, encapsulation form: S/SH, installation form: PCB						
Special							

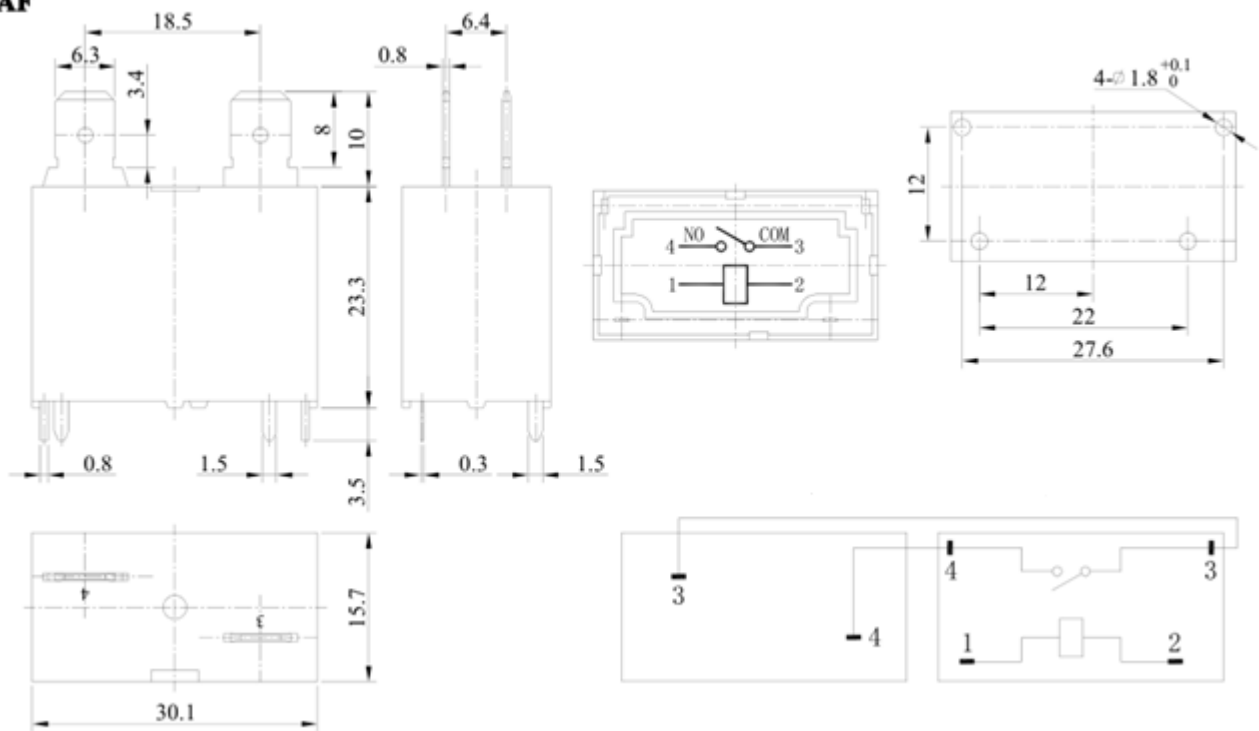
Notes: （1）We recommend flux proofed types for a clean environment (free from contaminations like H₂S、SO₂、SO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S、SO₂、SO₂, dust, etc.).

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM

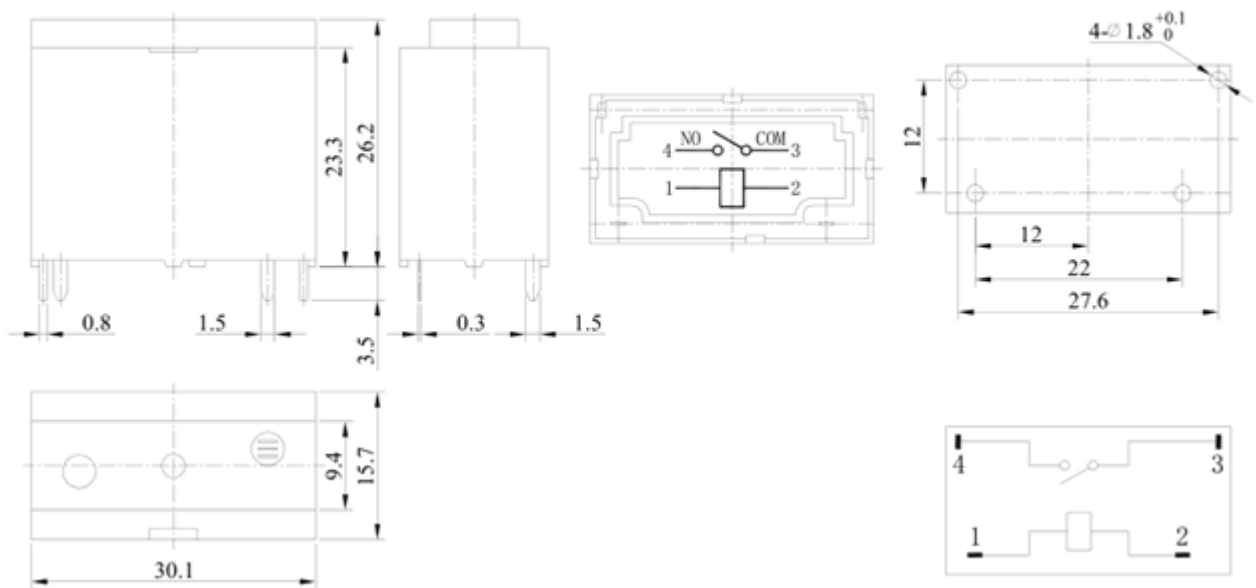


TRAF



OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM

TRAF-P



Notes:(1)In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $>1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $>5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

(2) The tolerance without indicating for PCB layout and pin size is always $\pm 0.1\text{mm}$.

(3)This product specification is for reference only, subject to change without prior notice

This specification is for reference only, the actual use is subject to the sample, all relays meet ROHS requirements, if there is any change will not be notified. web:www.qingmu.hk