## **TE Mechanical Relay**

BRAND		<u>TE</u>	<u>TE</u>	<u>TE</u>	<u>TE</u>
Туре		РСН	OJ / OJE / OJS	RT	RT inrush
外觀形狀 Appearance			11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (		
尺寸 Size (L×W×H) mm		20 x 10 x 15.2	18.2 x 10.2 x 14.7	29 x 12.7 x 15.7	29 x 12.7 x 15.7
Termainal Layout dimension Bottom view (PCB layout)		2-\$\phi\begin{pmatrix} 102\pma\begin{pmatrix} 102\pma\begin{pmatrix} 2-\phi\begin{pmatrix} 15\pma\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin{pmatrix} 2-\phi\begin\begin\begin{pmatrix} 2-\phi\begin\begin\begin{pmatrix} 2-\phi\begin\begin\begin{pmatrix} 2-\phi\begin\begin\begin{pmatrix} 2-\phi\begin\begin\begin\begin{pmatrix} 2-\phi\begin\be	7.5	013" 2252 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(2.3.5°) (2.
Features		Compact size     Meet 8kV surge voltage between coil and contacts     TV-3 ratings for NO contact	Miniature size     Meet 4kV dielectric between coil and contacts     Meet UL TV-5 ratings	Sensitive DC and AC coil     5kV/10mm coil-contact     Reinforced insulation     Latching version available	Inrush peak currents able up to 320A     Latching version available     5kV/10mm coil-contact     Reinforced insulation
Contact Form		1A, 1C	1A	1A, 1C, 2A, 2C	1A, 1C
Carry Current		3/5/10A	3/5/8/10/16A	8/16A	12/16A
Coil Voltage		3 to 48VDC	3 to 48VDC	5 to 110VDC / 24 to 230VAC	5 to 110VDC
Coil Operating Pow	/er	200/400mW	200/250/450mW	400mW/0.75VA	650/665mW
Max Switching Pow	ver	1400VA/150W (NO) 850VA/90W (NC)	720 to 2500VA/ 90 to 240W	2000/4000VA	4000VA
Rate Voltage		277VAC/30VDC	250VAC/28VDC	250VAC	250VAC
Dielectric Strength (coil and contact)		4000Vrms	3000/4000Vrms	5000Vrms	5000Vrms
Operating Tempera	ature	up to 85°C	up to 85°C	up to 85°C	up to 70°C
Operatng / Release	Time	10/5ms	10/4ms	8/6ms	9/6ms
Running	Load	100x10 <sup>3</sup> operations 10A 125VAC, 85°C	60x10 <sup>3</sup> operations 5A, 250VAC,85°C	3x10 <sup>4</sup> operations (2a 8A, 1a 16A), 250VAC, 85°C	50x10 <sup>3</sup> operations 16A, 250VAC, 85°C
Specifications	Nonload	10 <sup>7</sup> operations	10 <sup>7</sup> operations	3x10 <sup>7</sup> operations(DC coil)	5x10 <sup>6</sup> operations at least
BRAND		<u>TE</u>	<u>TE</u>	<u>TE</u>	<u>TE</u>
Туре		PB / PBH	ORWH	PCN	T92 / T92H
外觀形狀 Appearance				2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
尺寸 Size (LxWxH)	) mm	15 x 15 x 20	19.0 x 15.5 x 15.8	20 x 5 x 12.5	52.3 x 34.6 x 30.8
Termainal Layout dimension Bottom view (PCB layout)		913 <sup>-60</sup>	1 236 ± .004 (8.0 ± .1) 1 236 ± .004 (6.0 ± .1)  (6.0 ± .1)  (7.9 ± .004  (2.0 ± .1)  (1.3)  (1.3)	(20.9°4) Ø1,1°4)	2.26 ± 0.00 ± 0.
Features		Ambient temperatures     up to 105°C (PBH)     Compact and simple design gives high process security	1. 10A switching capacity     2. Flux proof or sealed type     available	5mm wide slim type, allowing high density spacing     Reinforced insulation type available	DC or AC coil     4kV/8mm coil-contact     PCB or QC connections or chassis mount
Contact Form		1A, 1C	1A, 1C	1A	2A, 2C
Carry Current		10A	10A	3/5A	30A
Coil Voltage		5 to 24VDC	3 to 48VDC	3 to 24VDC	6 to 110VDC / 12 to 277VAC
Coil Operating Pow		360mW/500mW	360mW	120mW	1.7W/4.0VA
Max Switching Pow	ver	2500VA	2770VA/360W	750VA/1250VA	7500VA
Rate Voltage		250VAC	277VAC/28VDC	250VAC/30VDC	400VAC
Dielectric Strength (coil and contact)		2500Vrms	1500Vrms	3000Vrms	4000Vrms
Operating Temperature		up to 85°C/105°C	up to 70°C/105°C	up to 70°C	up to 65°C/85°C

10ms/5 ms

10<sup>5</sup> operations

10A, 250VAC, 85°C

10<sup>7</sup> operations

8/3 ms

3x10<sup>4</sup> operations

5 A, 250 VAC, 85°C

2x10<sup>7</sup> operations

Load

Nonload

10/20 ms

20x10<sup>3</sup> operations

10A, 250VAC,85°C

5x10<sup>6</sup> operations

Operatng / Release Time

Running

Specifications

25/25ms

5x10<sup>4</sup> operations

40A, 240VAC, 85°C

10<sup>6</sup> operations at least

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BRAND		<u>TE</u>	<u>TE</u>	<u>TE</u>	<u>TE</u>
Туре		T9A	T9G	T9V	PCF
外觀形狀 Appearance					The second secon
尺寸 Size (L×W×H)	) mm	32.3 x 27.4 x 20.4	29 x 21.5 x 15.7	32.5 x 27.4 x 20.4	30.4 x 16 x 26.5
Termainal Layout dimension Bottom view (PCB layout)		171,000 at 1,000 to 1	### 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2071 DIA 1.09 ± .008 (27 ± ± 2)
Features		PCB and QC connections and chassis mount version     UL-class F as standard     Open version available	8kV Initial surge voltage between contact and coil     Option for 6.3mm quick connect termianls	1. pole 40A, 1 NO contact 2. Contact gap >1.8mm (suffix S) 3. 350mW hold power	QC terminal for load     (PCF only)     Meet 4kV dielectric voltage     between coil and contact
Contact Form		1A, 1C	1A, 1B, 1C	1A	1A
Carry Current		30A	20/30A	30/40A	25A
Coil Voltage		6 to 48VDC	5 to 110VDC	12VDC	6 to 24VDC
Coil Operating Power		1W/900mW	900mW	2.25W	900mW
Max Switching Power		7500VA	7500VA	10 000 VA	6370VA
Rate Voltage		250VAC	250VAC	277VAC	250VAC
Dielectric Strength (coil and contact)		2500Vrms	4000Vrms	4000Vrms	4000Vrms
Operating Temperature		up to 85°C	up to 105°C	up to 85°C	up to 55°C
Operatng / Release Time		15/15ms	15/22ms	18/15ms	20/10ms
Running Specifications	Load	10 <sup>5</sup> operations 30A, 240VAC, general purpose	75x10 <sup>3</sup> operations 30A, 250VAC, 85°C (PCB)	20x10 <sup>3</sup> operations 35A, 250VAC, 85°C	100x10 <sup>3</sup> operations 25A, 250VAC, 55°C
	Nonload	10 <sup>7</sup> operations	10 <sup>7</sup> operations	10 <sup>6</sup> operations	10 <sup>7</sup> operations
BRAND		TE (Force Guided)	TE (Force Guided)	TE (Force Guided)	TE (High Voltage)
Type		SD2M (V22047)	SD4 D/M	SP6 D/M	ECK150

	-		-		
BRAND		TE (Force Guided)	TE (Force Guided)	TE (Force Guided)	TE (High Voltage)
Туре		SR2M (V23047)	SR4 D/M	SR6 D/M	ECK150
外觀形狀 Appearance					Table of the state
尺寸 Size (LxWxH) mm		29 x 12.6 x 25.5	40 x 13 x 16.5	55 x 16.5 x 16.5	80.4 x 52.8 x 73.0
Termainal Layout dimension Bottom view (PCB layout)		25.25d V 25.25d V 2.4 5.0 5.0	013 <sup>41</sup>	22.5 5 18 5 18 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 5 19 5 1	Main contact pushes pole
Features		2 pole relay with force guided contacts according to EN 50205     Reinforced insulation between poles	4 pole relay with force guided contacts according to EN50205     Compact design, space efficient	4/6 pole relay with force guided contacts according to EN 50205     Reinforced insulation between all contacts	Designed with built-in economizer, hold power 1.7W     Maximum breaking current at 1500A, breaking voltage at 1000VDC
Contact Form		1A+1B, 2C	3A+1B, 2A+2B	3A+1B, 2A+2B	1A
Carry Current		6A	8A	8A	200A
Coil Voltage		5 to 110VDC	5 to 110VDC	5 to 110VDC	9 to 36VDC
Coil Operating Power		700mW	800mW	1200/800mW	Start: 43.2W, Hold: 1.7W
Rate Voltage		250VAC	250VAC	250VAC	1000VDC
Dielectric Strength (coil and contact)		4000Vrms	4000Vrms	4000Vrms	3500Vrms
Operating Temperature		up to 70°C	up to 70°C	up to 70°C	up to 85°C
Operatng / Release	e Time				30/10ms
Running Specifications	Load	10 <sup>5</sup> operations 1A/24VDC, 70°C	6x10 <sup>3</sup> operations 8A, 250VAC, 70°C	6x10 <sup>3</sup> operations 8A, 250VAC, 70°C	6x10 <sup>3</sup> operations, load: 150A, 450VDC, make/break, resistive
	Nonload	10 <sup>7</sup> operations	10 <sup>7</sup> operations	10 <sup>7</sup> operations	5x10 <sup>5</sup> operations

## **TE Mechanical Relay**

BRAND		TE (High Voltage)	TE (High Voltage)	TE (High Voltage)	TE (High Voltage)
Туре		ECK200	ECK250	ECP150B	ECP250B
外觀形狀 Appearance			100 Mars 100		
尺寸 Size (L×W×H) mm		80.4 x 52.8 x 73.0	80.4 x 52.8 x 73.0	104.0 x 74.5 x 89.5	104.0 x 74.5 x 89.5
Termainal Layout dimension Bottom view (PCB layout)		Ale contact positive pair   Ale contact pair   Ale contact positive pair   Ale contact	Ass. contact positive prior - Ass. contact (sylveral)  Allow contact reprine prior - Ass. contact (sylveral)  Ass. contact reprine prior	2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Features		Designed with built-in economizer, hold power 1.7W     Maximum breaking current at 1500A, breaking voltage at 1000VDC	Designed with built-in economizer, hold power 1.7W     Maximum breaking current at 1500A, breaking voltage at 1000VDC	Allow bi-diectional load     Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current 150A	Allow bi-diectional load     Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current 250A
Contact Form		1A	1A	1A	1A
Carry Current		500A	500A	350A	350A
Coil Voltage		9 to 36VDC	9 to 36VDC	12 to 24VDC	12 to 24VDC
Coil Operating Pow	er	Start: 43.2W, Hold: 1.7W	Start: 43.2W, Hold: 1.7W	Start: 50W, Hold: 5W	Start: 50W, Hold: 5W
Rate Voltage		1000VDC	1000VDC	1500VDC	1500VDC
Dielectric Strength		3500Vrms	3500Vrms	4000Vrms	4000Vrms
Operating Tempera	ture	up to 85°C	up to 85°C	up to 85°C	up to 85°C
Operatng / Release	Time	30/10ms	30/10ms	50/30ms	50/30ms
Running Specifications	Load	6x10 <sup>3</sup> operations, load: 200A, 450VDC, make/break, resistive	6x10 <sup>3</sup> operations, load: 250A, 450VDC, make/break, resistive	500 operations, load: 150A, 1500VDC, make/break, resistive	500 operations, load: 250A, 1500VDC, make/break, resistive
openioane	Nonload	5x10 <sup>5</sup> operations	5x10 <sup>5</sup> operations	2x10 <sup>5</sup> operations	2x10 <sup>5</sup> operations
BRAND		TE (High Voltage)	TE (High Voltage)	TE (High Voltage)	TE (High Voltage)
Туре		ECP350B	IHV200	EV200B	K1K
外觀形狀 Appearance					SITE OF THE PROPERTY OF THE PR
尺寸 Size (LxWxH)	mm	104.0 x 74.5 x 89.5	80.48 x 62.23 x 72.3	80.48 x 62.23 x 72.3	114.8 x 96.3 x 74.2
Termainal Layout dimension Bottom view (PCB layout)		1	10.1 × 10.0 × 10	12 + 2   20	
Features		Water contents	200 + 20 200 + 4 90 20 + 20	100 = 01 100 = 20 2 000 = 20 100 = 20	3.56 [64.6]
Features		Allow bi-diectional load     Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current     350A	Designed to be the smallest, lightest weight, lowest cost sealed contactor in the industry with its current rating	Designed to be the smallest, lightest weight, lowest cost sealed contactor in the industry with its current rating	Suitable for application in harsh environments     Bidirectional switching     Main contacts not polarity sensitive
Features  Contact Form		Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current	lightest weight, lowest cost sealed contactor in the	lightest weight, lowest cost sealed contactor in the industry	harsh environments 2. Bidirectional switching 3. Main contacts not polarity
		Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current     350A	lightest weight, lowest cost sealed contactor in the industry with its current rating	lightest weight, lowest cost sealed contactor in the industry with its current rating	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive
Contact Form		Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current     350A	lightest weight, lowest cost sealed contactor in the industry with its current rating	lightest weight, lowest cost sealed contactor in the industry with its current rating	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive
Contact Form Carry Current	er	Dual coil design, hold 5W     Auxiliary contact available     Rate Switching current     350A     1A     350A	lightest weight, lowest cost sealed contactor in the industry with its current rating 1A 500A	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B  500A	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A
Contact Form Carry Current Coil Voltage	er	2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A  500A  12 to 95VDC	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B  500A	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC
Contact Form Carry Current Coil Voltage Coil Operating Pow	er	2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC  Start: 50W, Hold: 5W	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A  500A  12 to 95VDC  Hold: 1.7W	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B  500A  12 to 24VDC	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC  Hold: 8W
Contact Form Carry Current Coil Voltage Coil Operating Pow Rate Voltage		2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC  Start: 50W, Hold: 5W  1500VDC	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A  500A  12 to 95VDC  Hold: 1.7W  900VDC	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B  500A  12 to 24VDC  750VDC	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC  Hold: 8W  100VDC
Contact Form Carry Current Coil Voltage Coil Operating Pow Rate Voltage Dielectric Strength	ture	2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC  Start: 50W, Hold: 5W  1500VDC  4000Vrms	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A 500A 12 to 95VDC Hold: 1.7W 900VDC 2200Vrms	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B 500A 12 to 24VDC 750VDC 2200Vrms	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC  Hold: 8W  100VDC  2800Vrms
Contact Form Carry Current Coil Voltage Coil Operating Pow Rate Voltage Dielectric Strength Operating Tempera Operating / Release Running	ture	2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC  Start: 50W, Hold: 5W  1500VDC  4000Vrms  up to 85°C  50/30ms  400 operations, load: 300A, 1500VDC, make/break,	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A 500A 12 to 95VDC Hold: 1.7W 900VDC 2200Vrms up to 85°C 15/12ms  700 operations, load: 200A, 600VDC, make/break,	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B 500A 12 to 24VDC 750VDC 2200Vrms up to 85°C 15/15ms  10,000 operations, load 200A 270Vdc, make/ break,	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC  Hold: 8W  100VDC  2800Vrms  up to 105°C  50/8ms  3500 operations, load: 200 A, 1000 VDC, make/break,
Contact Form Carry Current Coil Voltage Coil Operating Pow Rate Voltage Dielectric Strength	ture	2. Dual coil design, hold 5W 3. Auxiliary contact available 4. Rate Switching current 350A  1A  350A  12 to 24VDC  Start: 50W, Hold: 5W  1500VDC  4000Vrms  up to 85°C  50/30ms  400 operations, load: 300A,	lightest weight, lowest cost sealed contactor in the industry with its current rating  1A 500A 12 to 95VDC Hold: 1.7W 900VDC 2200Vrms up to 85°C 15/12ms 700 operations, load: 200A,	lightest weight, lowest cost sealed contactor in the industry with its current rating  1B 500A 12 to 24VDC 750VDC 2200Vrms up to 85°C 15/15ms 10,000 operations, load 200A	harsh environments 2. Bidirectional switching 3. Main contacts not polarity sensitive  1A  1000A  12 to 24VDC  Hold: 8W  100VDC  2800Vrms  up to 105°C  50/8ms  3500 operations, load: 200 A,