

插入型絕緣/金屬軸式編碼規則

**RV 09 A X F - 40 E1 - 20 F X - B 5K - X X XXX**  
**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15**

**1. Product Line**

RV Rotary Potentiometer

**2. Model**

**3. Structure Difference**

**4. Derivatives**

**5. RoHS Version**

F indicates RoHS Compliance

**6. Type of Terminal**

Code	Type of Terminal
10	Solder lug
20	PC board (horizontal)
30	PC board (vertical);front
40	PC board (vertical);back

**7. Type of Bushing**

**8. Shaft Length**

**9. Type of Shaft**

**10. Axis Angle of F-type Shaft**

**11. Pattern of Resistance Curve**

**12. Resistance Value**

**13. Materials & Methods for Manufacturing Shaft & Bushing**

**14. Number of Click**

Code	Specification
0	None
C	Center Click
D	11 Positions click
E	21 Positions click
F	41 Positions click

**15. Serial No.**

**訂單指定事項：**

開立訂單時，用途請依下表記載予以指定製品之規格詳細記載並確認之。

**項目：**


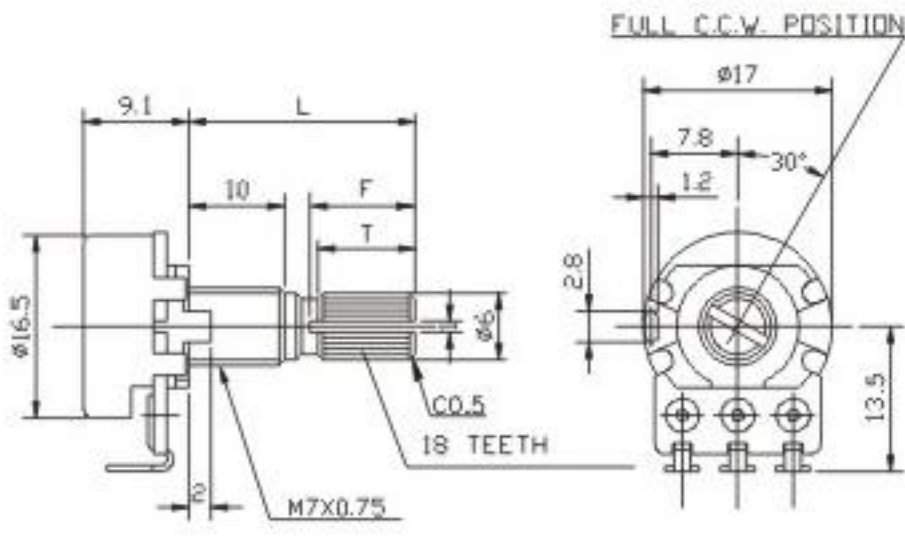

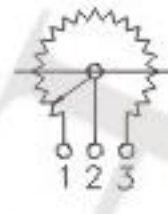

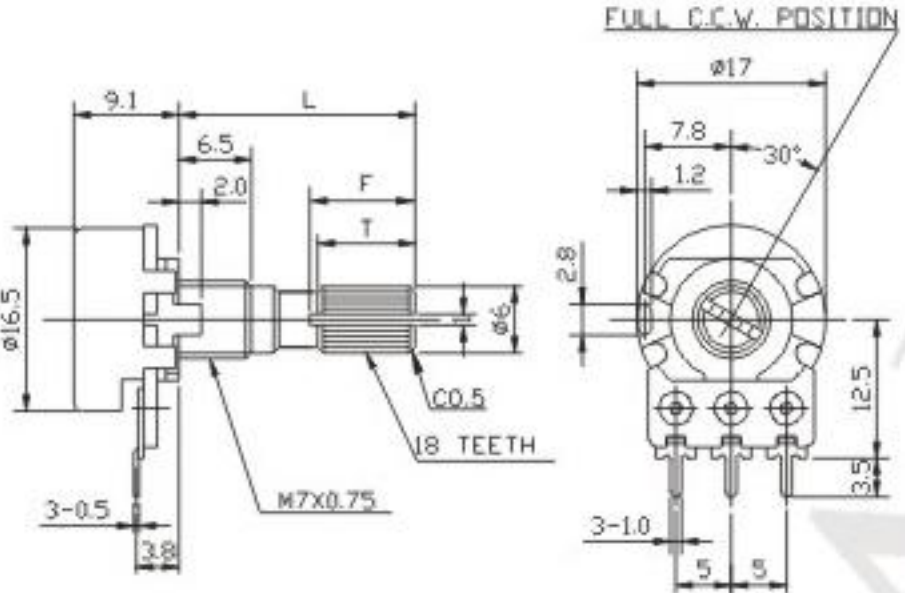

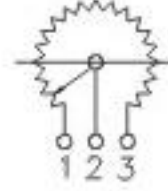

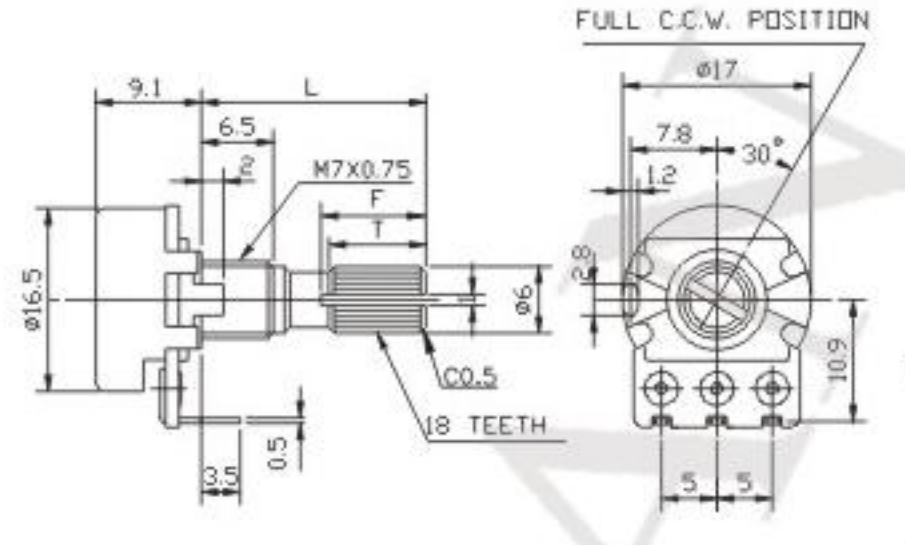

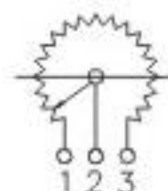

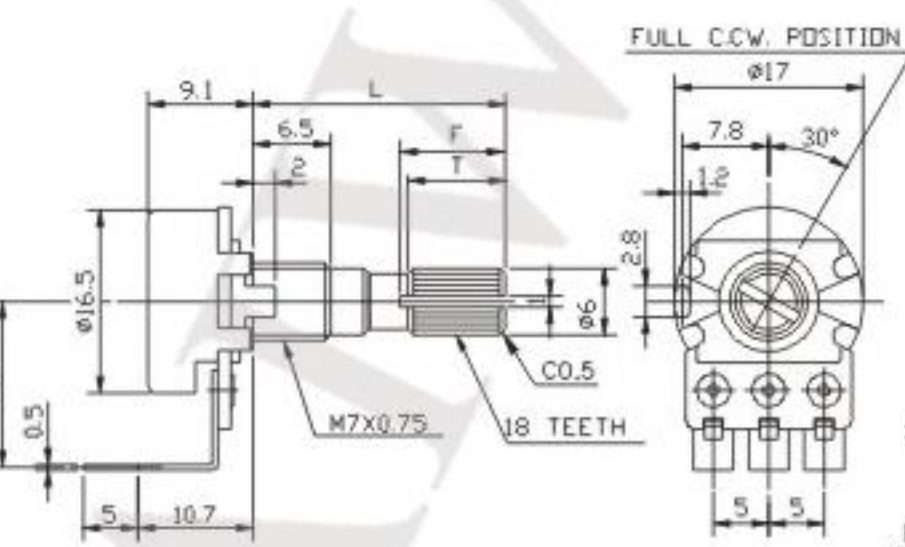

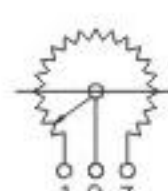

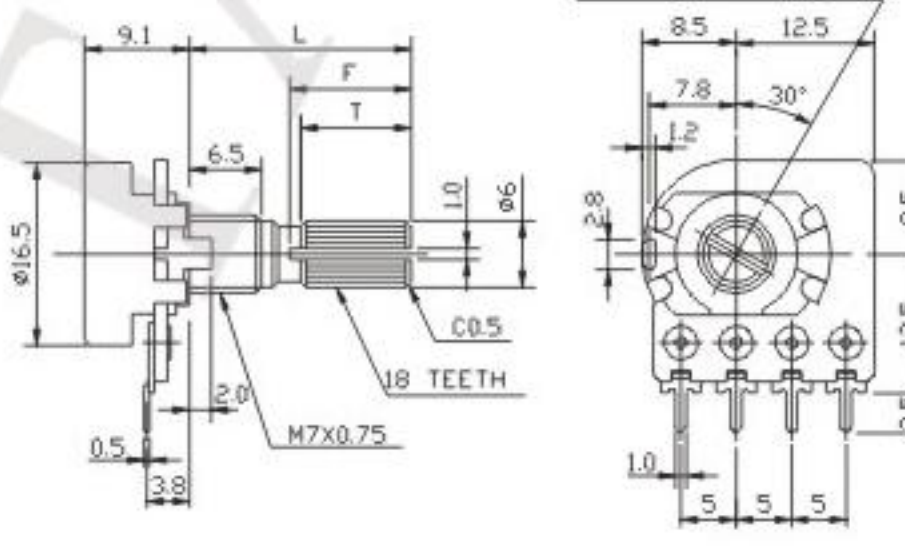

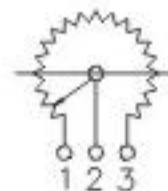
1. 型號。
2. 公稱阻值及線性要求。
3. 軸型及長度。
4. 端子型式。
5. 段點的有無。
6. 中間抽頭的有無。
7. 音量用或其他。
8. 手焊錫或錫爐焊錫。

**ORDERING INSTRUCTIONS**

WHEN PLACING YOUR ORDER, PLEASE SPECIFY THE FOLLOWING ITEMS ACCORDING TO YOUR APPLICATION NEEDS. FOR MORE INFORMATION ABOUT OUR PRODUCTS, PLEASE REFER TO THE SPECIFICATION GIVEN ON THE FOLLOWING PAGES.


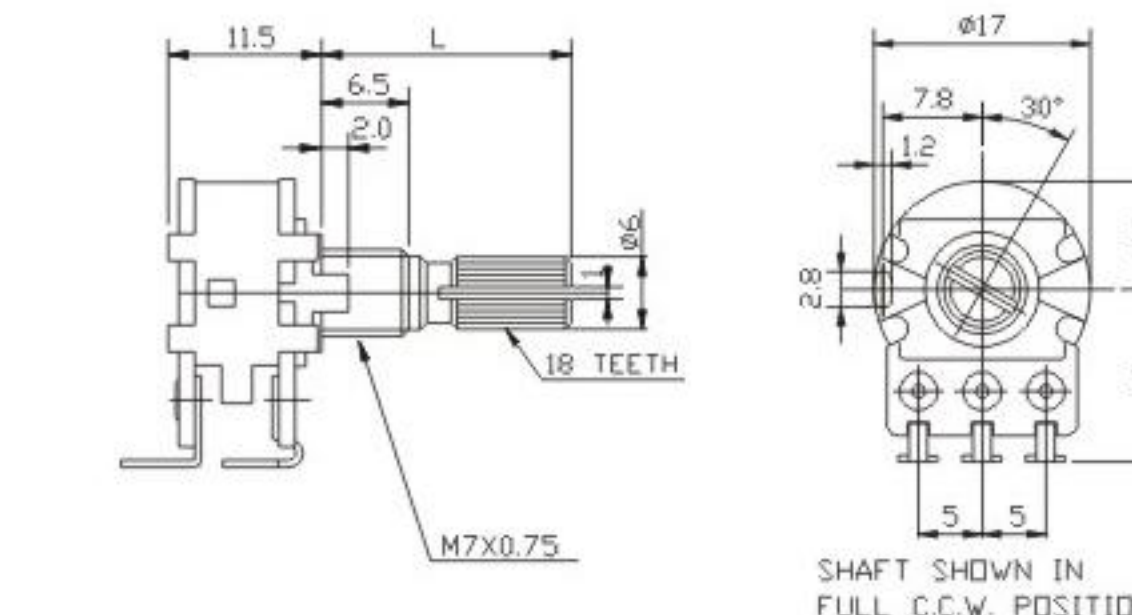
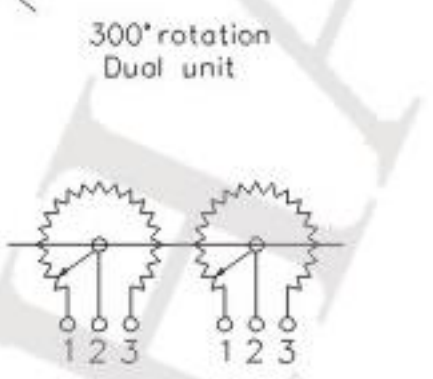

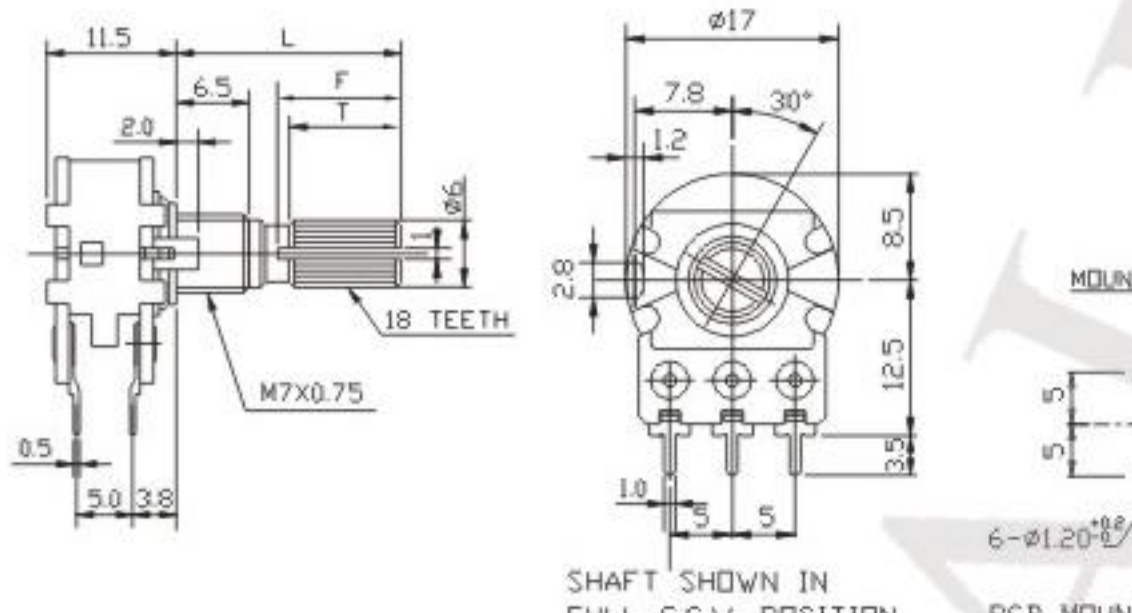
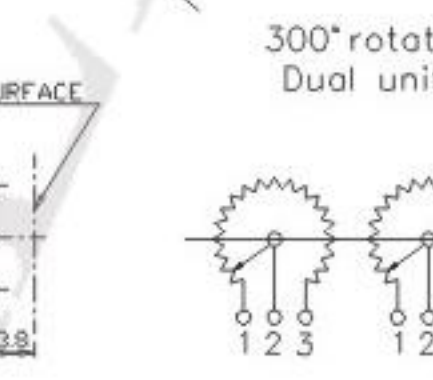

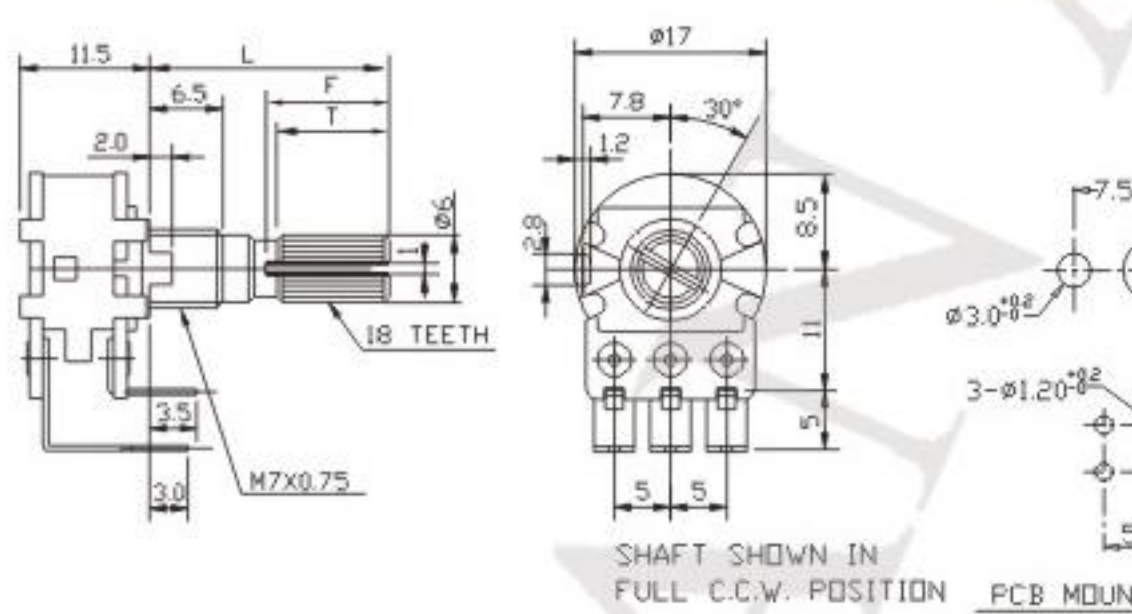
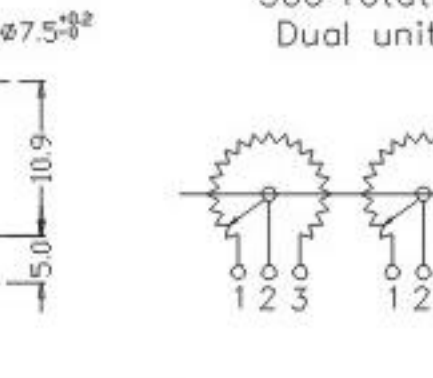

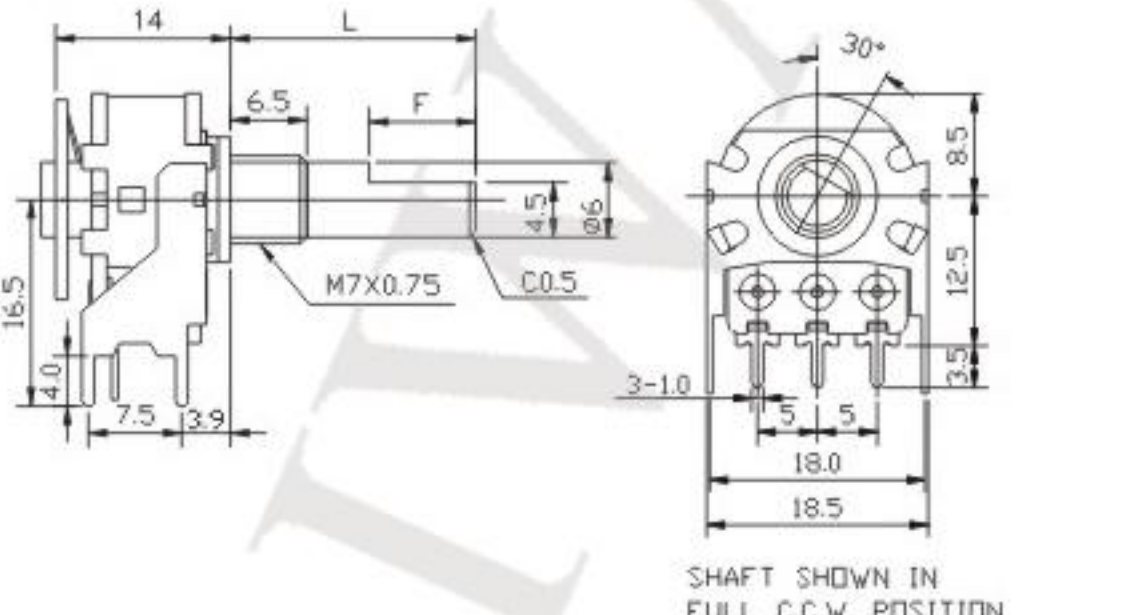
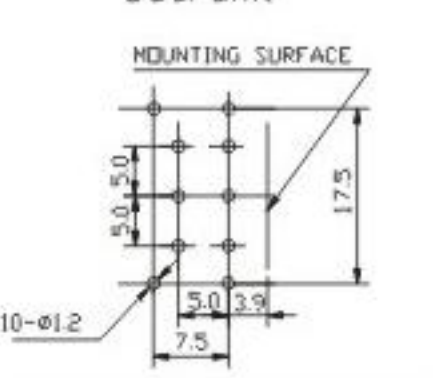

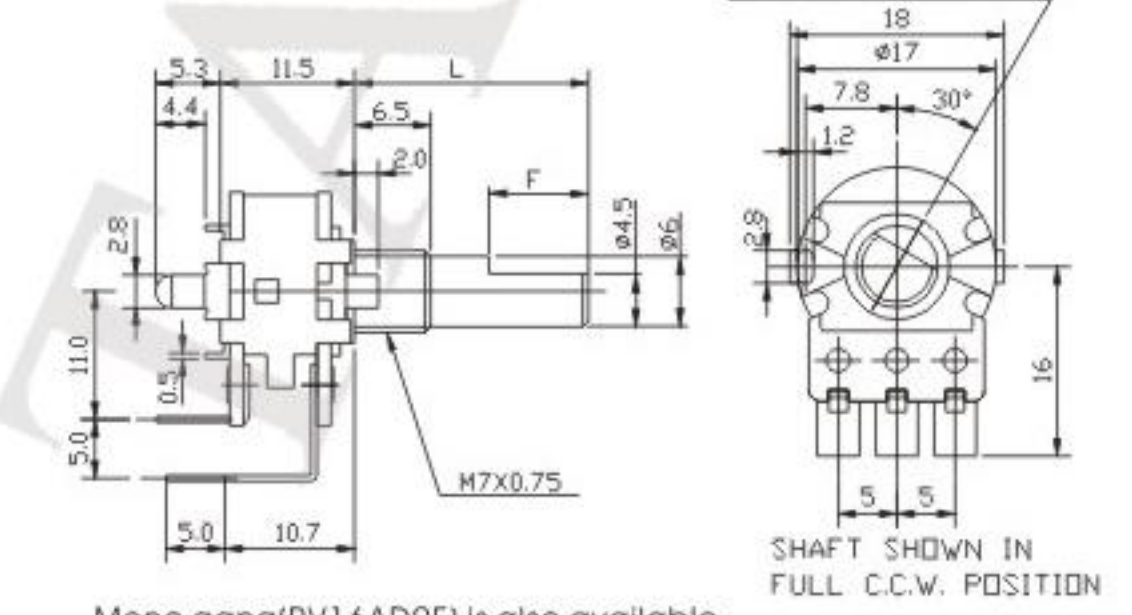
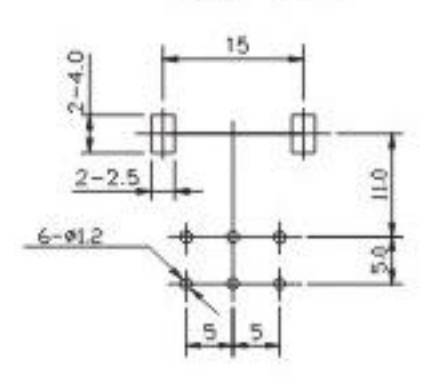
**ITEMS：**

1. MODEL.
2. NORMAL RESISTANCE VALUE AND TAPER.
3. SHAFT STYLE AND LENGTH.
4. TERMINAL STYLE.
5. WITH CLICK OR WITHOUT CLICK, CLICK POSITION
6. WITH TAP OR WITHOUT TAP, TAP POSITION.
7. FOR VOLUME CONTROL OR OTHER USE.
8. MANUAL SOLDERING OR DIP SOLDERING.

Model	Outline Drawing	Features / Individual Specification
<p><b>RV16AF-10B6</b></p> 		 <p>300° rotation mono unit</p> 
<p><b>RV16AF-20</b></p> 		 <p>300° rotation mono unit</p> 
<p><b>RV16AF-30</b></p> 		 <p>300° rotation mono unit</p> 
<p><b>RV16AF-41</b></p> 		 <p>300° rotation mono unit</p> 
<p><b>RV16ARF-20</b></p> 	 <p>Dual Gang (RV16AR1F) is also available</p>	 <p>300° rotation mono unit</p> 

For Shaft & Bushing Dimension please refer to page(69)  
For PCB Mounting Hole Detail please refer to page(45)

# 16mm METAL SHAFT SERIES

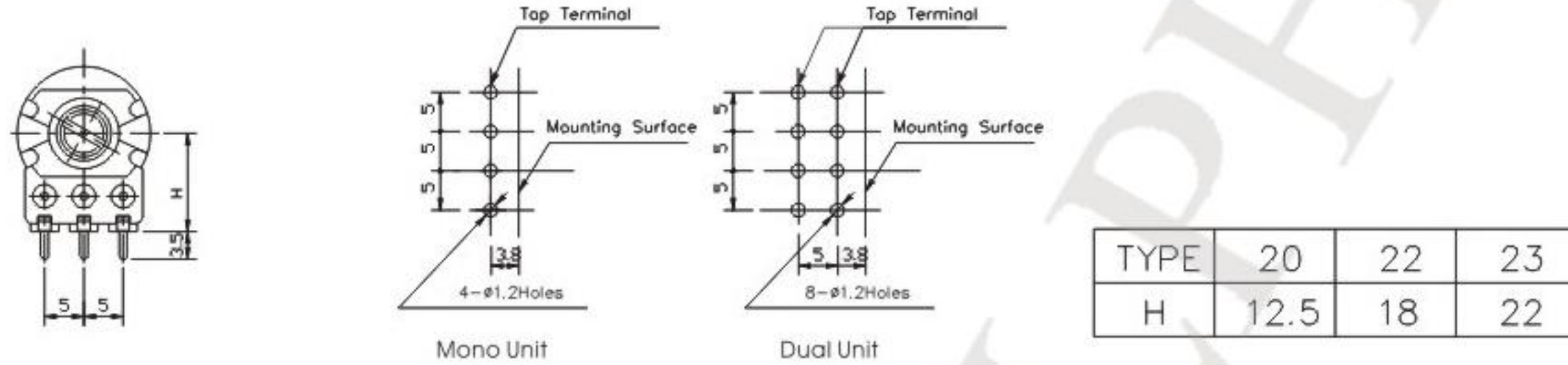
Model	Outline Drawing	Features / Individual Specification
<b>RV16A01F-10</b> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	 <p>300° rotation Dual unit</p>
<b>RV16A01F-20</b> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	 <p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
<b>RV16A01F-30</b> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	 <p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
<b>RV16AE1F-20B2</b> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	 <p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
<b>RV16AD1F-41</b> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	 <p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p>

Mono gang(RV16AD0F) is also available

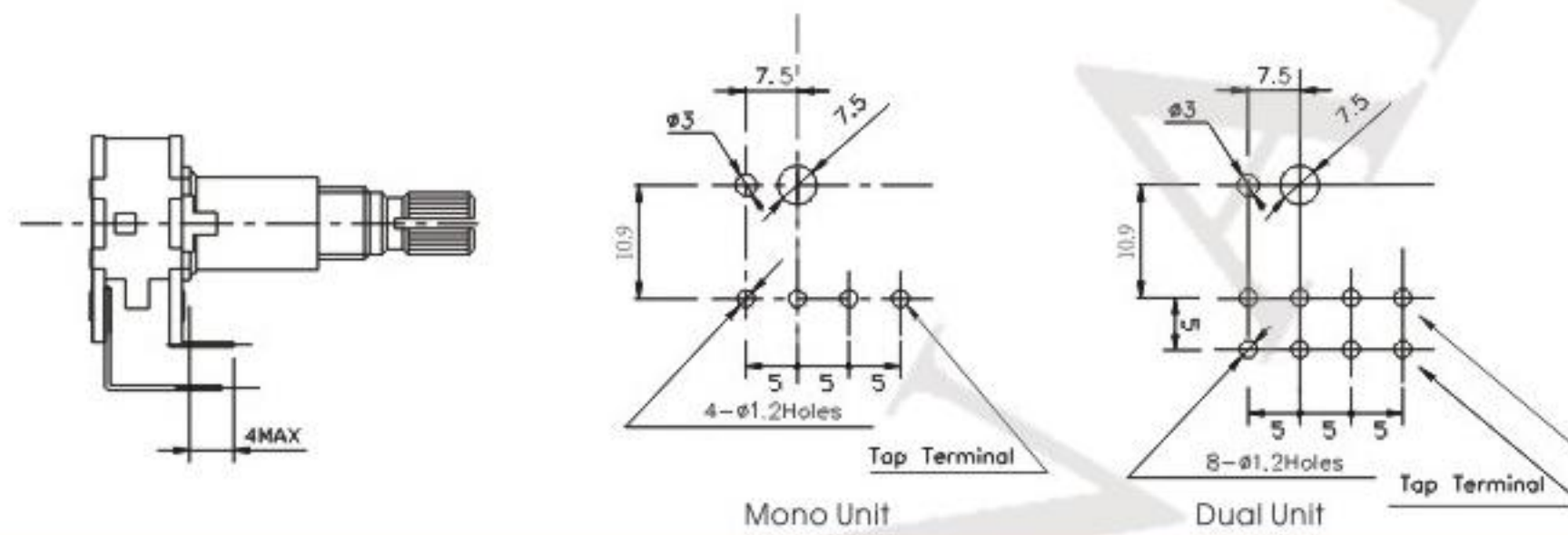
For Shaft & Bushing Dimension please refer to page(69)  
 For PCB Mounting Hole Detail please refer to page(45)

**P.C.B. MOUNTING HOLE DETAIL AND TERMINAL DIMENSIONS**

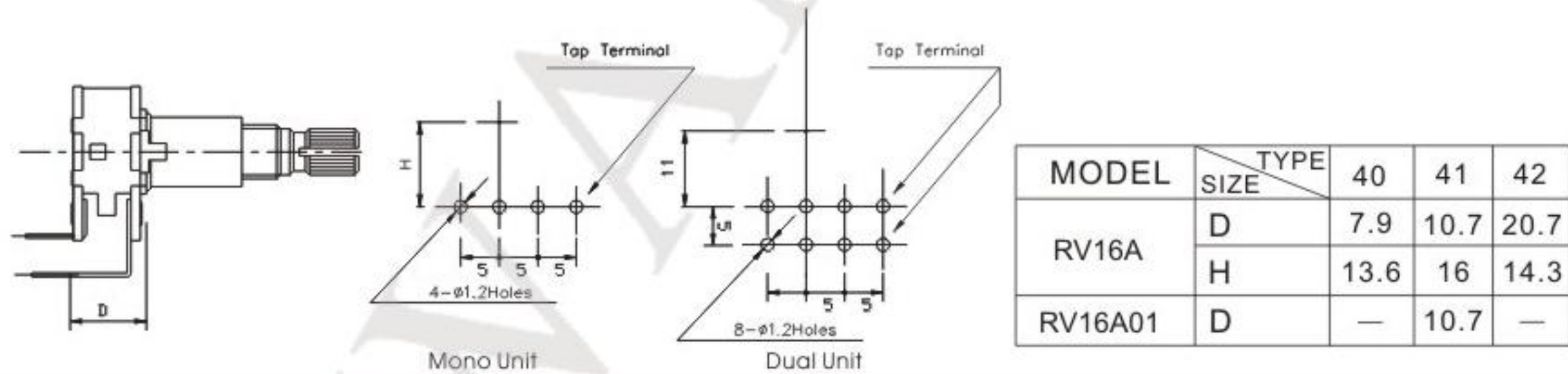
**20 Type Terminal (PH Terminal)**



**30 Type Terminal (PV Terminal)**



**40 Type Terminal (UPV Terminal)**



**RV16AF**

**MECHANICAL**

TOTAL ROTATION ANGLE 300° ±5°  
 ROTATION TORQUE 20-200 gf.cm  
 SHAFT STOP STRENGTH 6kgf.cm/Min.  
 CLICK POSITION Center, 11, 21 or 41 positions  
 CLICK TORQUE 100-400 gf.cm

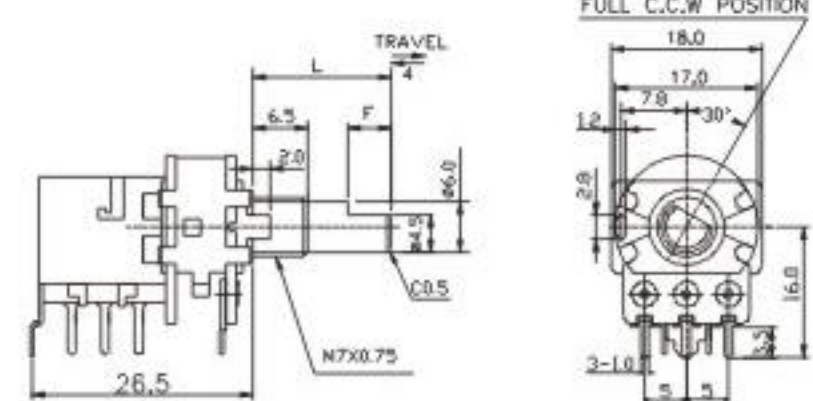
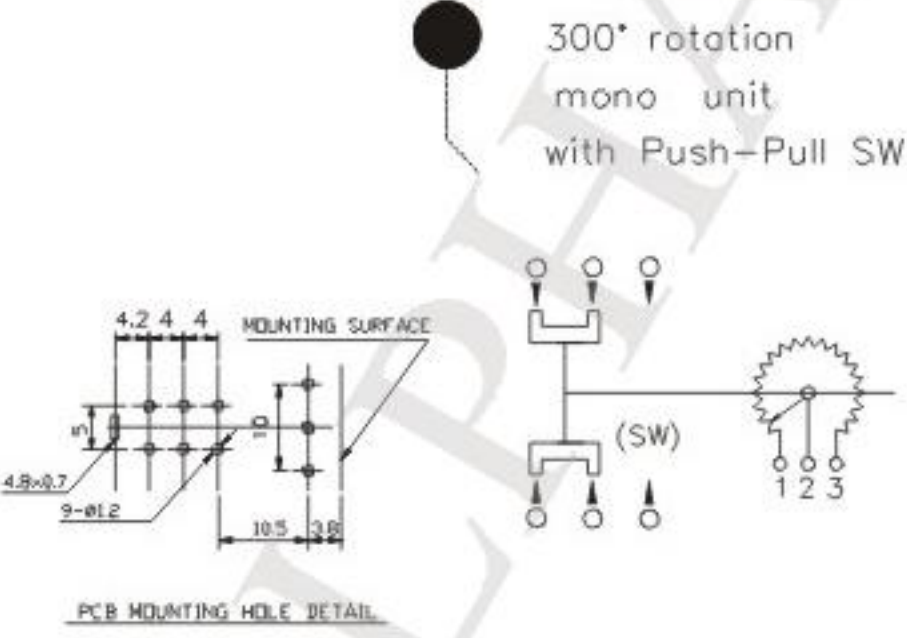
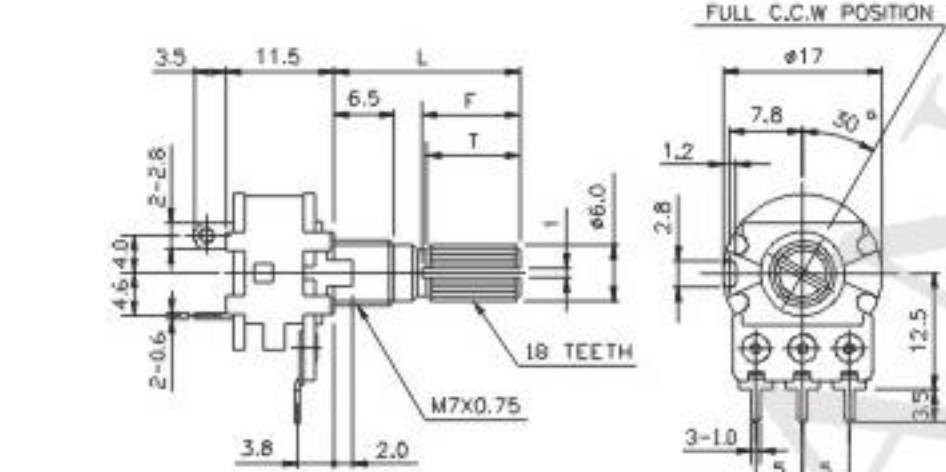
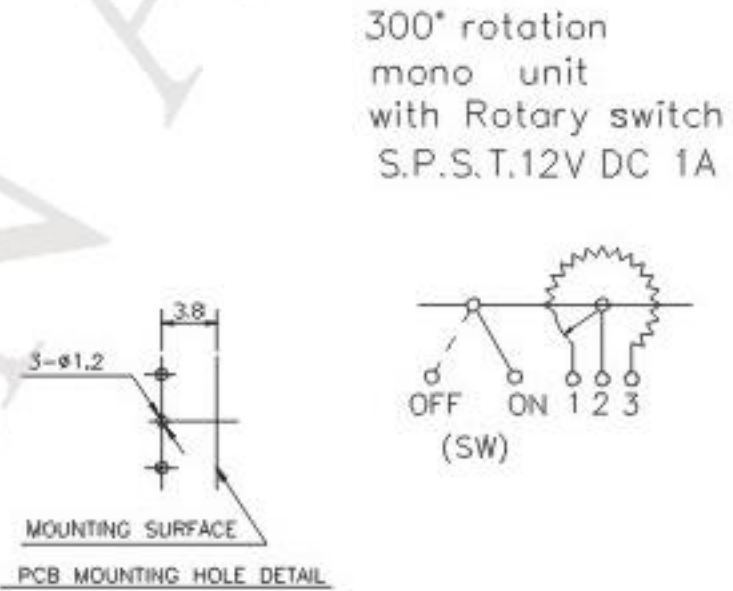
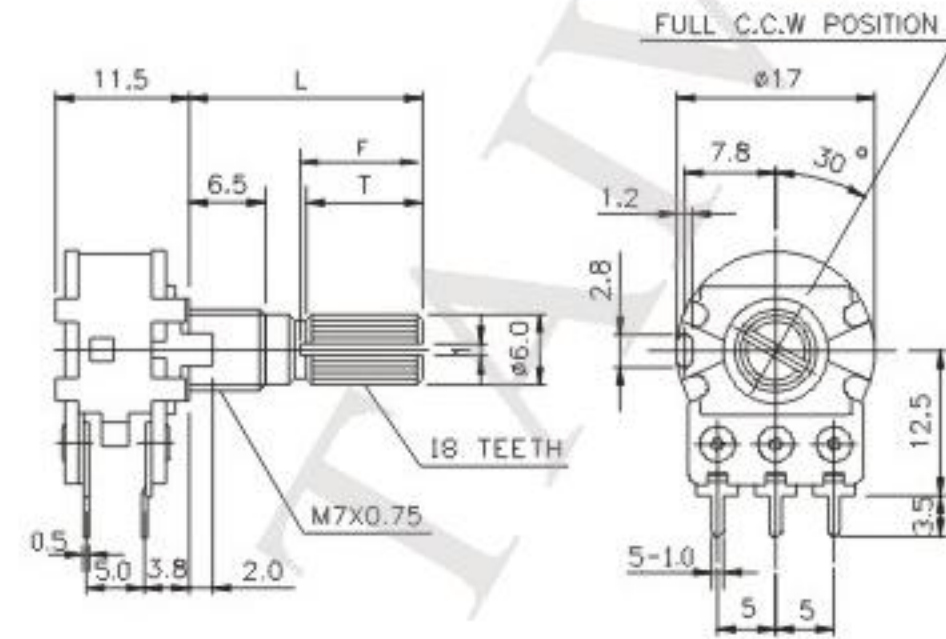
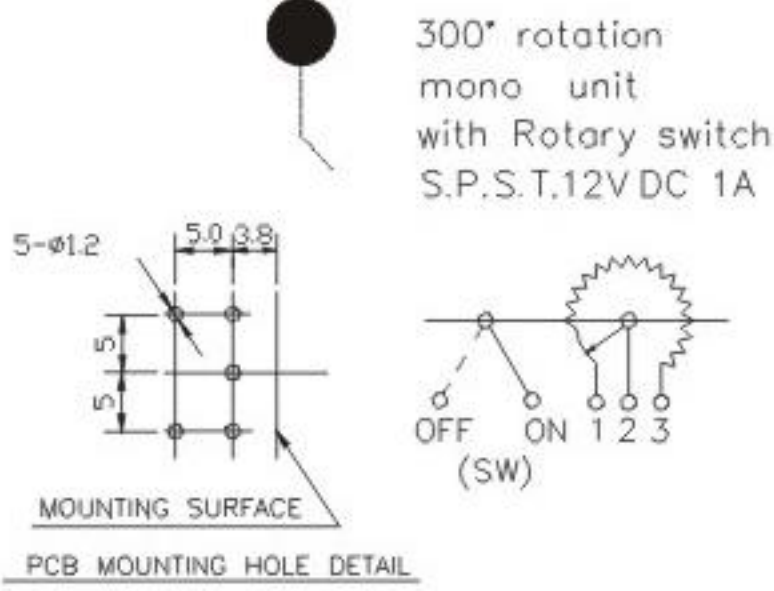
**ELECTRICAL**

RATED WATTAGE  
 RATED VOLTAGE  
 INSULATION RESISTANCE  
 DIELECTRIC STRENGTH  
 TAP POSITION  
 TRACKING ERROR

linear taper (B) other tapers  
 0.125W 0.06W  
 200V AC 150V AC  
 more than 100MΩ at 500V DC  
 500V AC, 1 minute  
 50%(150°)  
 volume control: -40~0dB±3dB  
 tone, balance control: ±2dB at 50% point

For Shaft & Bushing Dimension please refer to page(69)

# 16mm METAL SHAFT WITH SWITCH SERIES

Model	Outline Drawing	Features / Individual Specification
<b>RV16BF-20(D.P.D.T Switch)</b> <b>(S.P.D.T is also available)</b>		
Dual Gang(RV16B01F) is also available		
<b>RV16A04F-20</b>		
<b>RV16A03F-20</b>		

## SPECIFICATION

**MECHANICAL**  
TOTAL ROTATION ANGLE  
ROTATION TORQUE  
SHAFT STOP STRENGTH  
SWITCH WORKING ANGLE/STROKE  
SWITCH WORKING TORQUE/FORCE  
SWITCH CIRCUIT

RV16BF  
300°±5°  
20-200 gf.cm  
6kgf.cm/Min.  
4mm  
800gf.cm Max.  
D.P.D.T. S.P.D.T.

RV16A04F & RV16A03F  
300°±5°  
20-200 gf.cm  
6kgf.cm/Min.  
50°±10°  
50-450gf.cm  
S.P.S.T.

## ELECTRICAL

RATED WATTAGE  
RATED VOLTAGE  
INSULATION RESISTANCE  
DIELECTRIC STRENGTH  
SWITCH CONTACT RESISTANCE  
SWITCH RATING  
ROTATION LIFE  
SWITCH LIFE

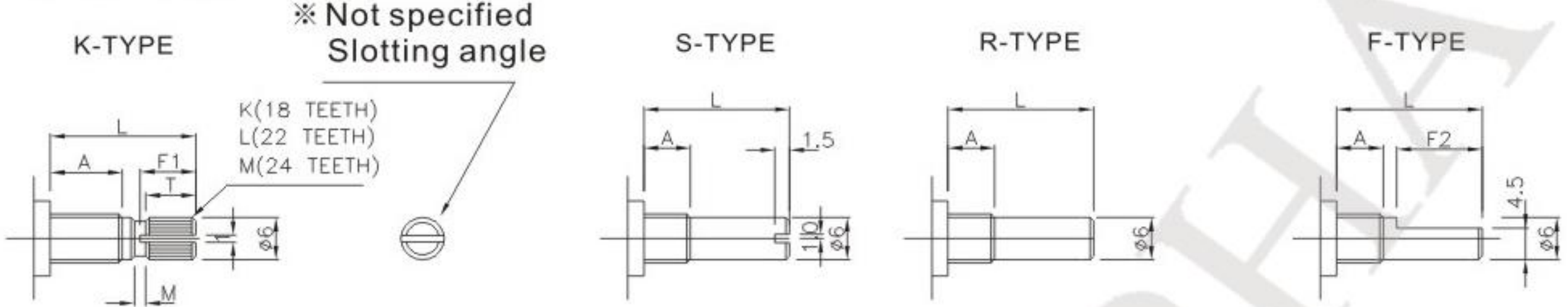
Linear taper (B) other tapers  
0.2W 0.1W  
200V 150V  
more than 100MΩ at 500V DC  
500V AC, 1 minute  
less than 20mΩ  
30V DC, 0.3A  
15,000 cycles  
10,000 cycles

linear taper (B) other tapers  
0.2W 0.1W  
200V 150V  
more than 100MΩ at 500V DC  
500V AC, 1 minute  
less than 50mΩ  
12V DC, 1A  
15,000 cycles  
10,000 cycles

For Shaft & Bushing Dimension please refer to page(69)

**STANDARD SHAFT, BUSHING, NUT AND WASHER DIMENSION**

**METAL SHAFT**



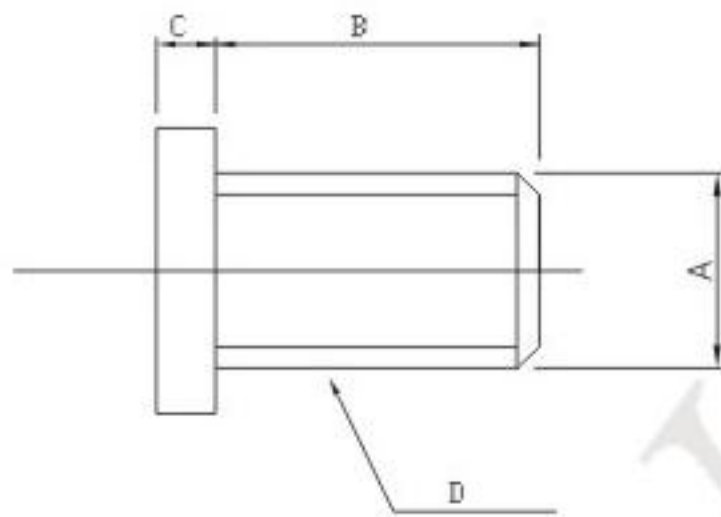
A: 5m/m

SHAFT-TYPE	L	10	15	20	25	30	35	40
K	F1	3.5	6.5	11	14	14	14	14
	T	3.2	6	10	12	12	12	12
	M	0.5	1	2	4	4	4	4
F	F2	4	7	12	14	14	14	14
R, S	L	10	15	20	25	30	35	40

A: 6.5m/m

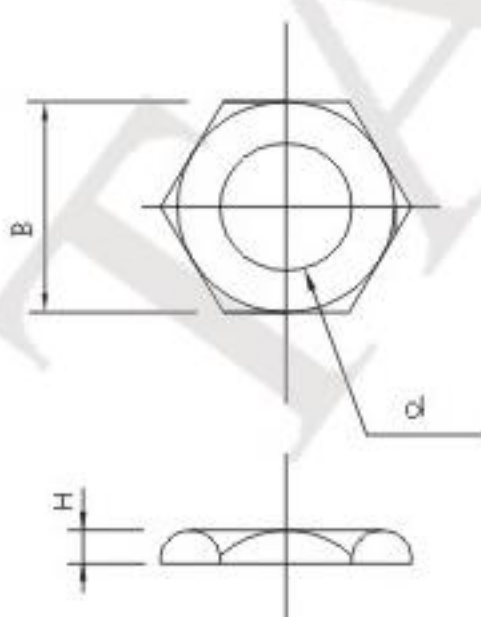
SHAFT-TYPE	L	10	15	20	25	30	35	40
K	F1	2.4	6.5	11	14	14	14	14
	T	2.2	6	10	12	12	12	12
	M	0.5	1	2	4	4	4	4
F	F2	2.5	7	12	14	14	14	14
R, S	L	10	15	20	25	30	35	40

**BUSHING**

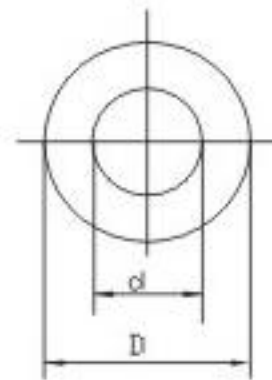


SERIES	RV24A	RV170	RV16A	RV060	RV120	RV122
A	φ8	φ7	φ7	φ9	φ7	7
B	6.5	5	6.5	7	7	7
C	2	1	1.4	0.7	3.3	3.3
D	M8x0.75	M7x0.75	M7x0.75	M9x0.75	M7x0.75	M7x0.75

**NUT, WASHER**




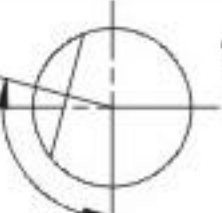
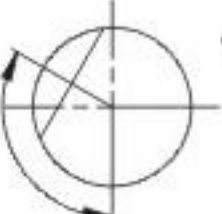
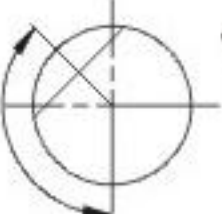
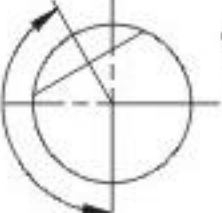
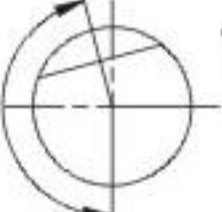
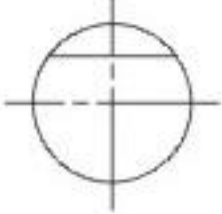
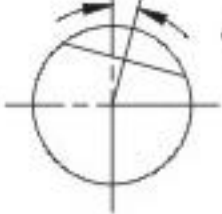
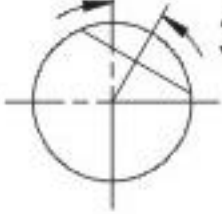



d	B	H
M6x0.75	8	2.0
M7x0.75	10	2.0
M8x0.75	11	2.0
M9x0.75	12	2.0
M10x0.75	14	2.0
3/8"32NEF	12.6	2.2

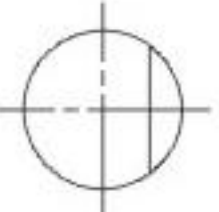





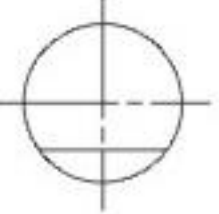


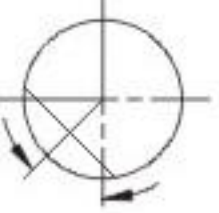

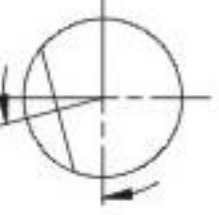


SERIES	d	D	H
M6	φ6.1	φ10	0.4
M7	φ7.1	φ12	0.4
M8	φ8.1	φ14	0.4
M9	φ9.1	φ14	0.4
M10	φ10.2	φ14.8	0.5
3/8"32NEF	φ9.7	φ16	0.4

## AXIS ANGLE OF F-TYPE AND A-TYPE SHAFT

Standard Angle (for 300° rotation)

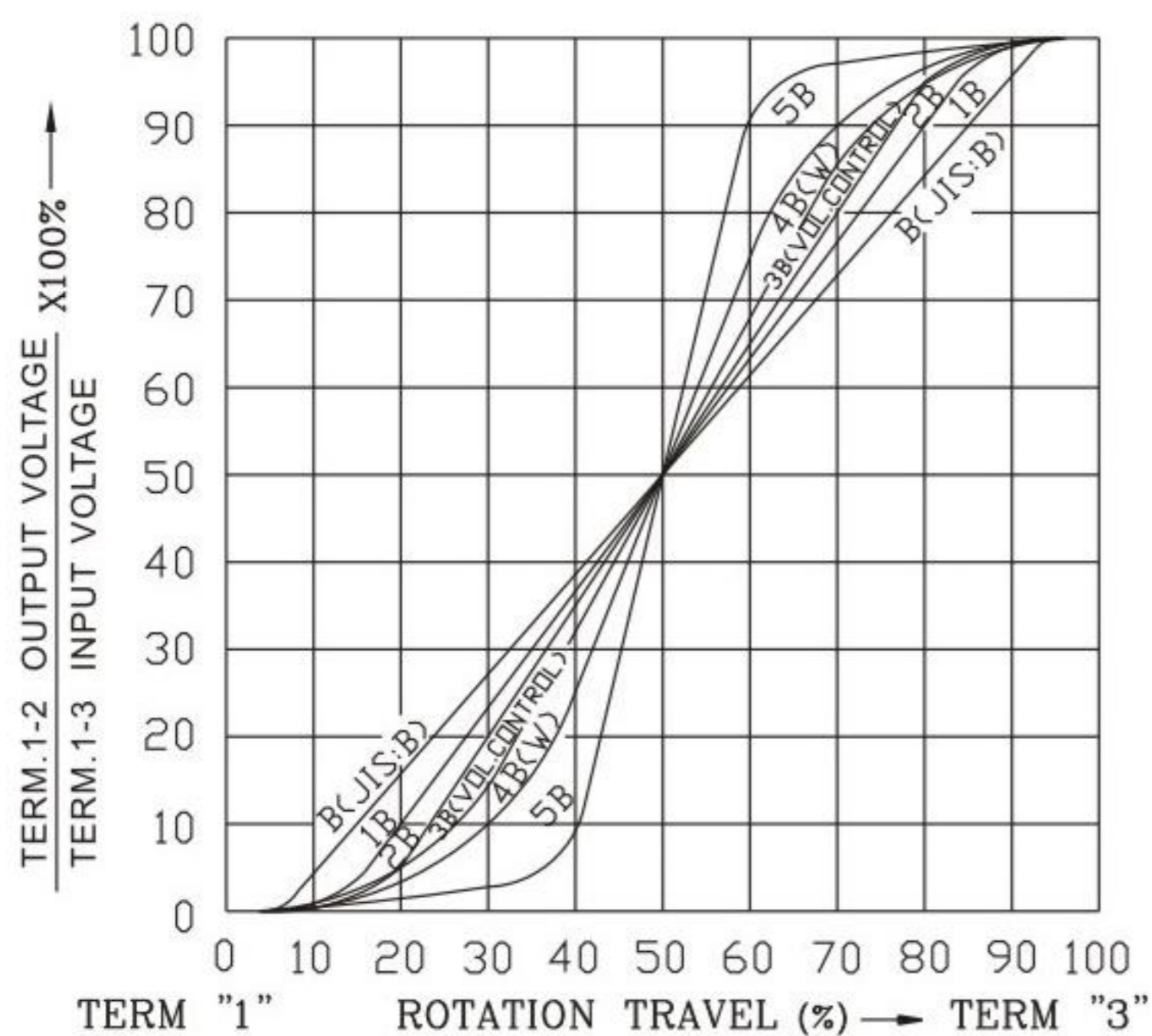
AXIS Angle	Symbol
	F00, (O)
 105°	F01, (A)
 120°	F02, (B)
 135°	F03, (C)
 150°	F04, (D)
 165°	F05, (E)
	F06, (F)
 15°	F07, (G)
 30°	F08, (H)
 45°	F09, (J)
 60°	F10, (K)
 75°	F11, (L)

AXIS Angle	Symbol
	F12, (M)
 105°	F13, (N)
 120°	F14, (P)
 135°	F15, (Q)
 150°	F16, (R)
 165°	F17, (S)
	F18, (T)
 15°	F19, (V)
 30°	F20, (W)
 45°	F21, (X)
 60°	F22, (Y)
 75°	F23, (Z)

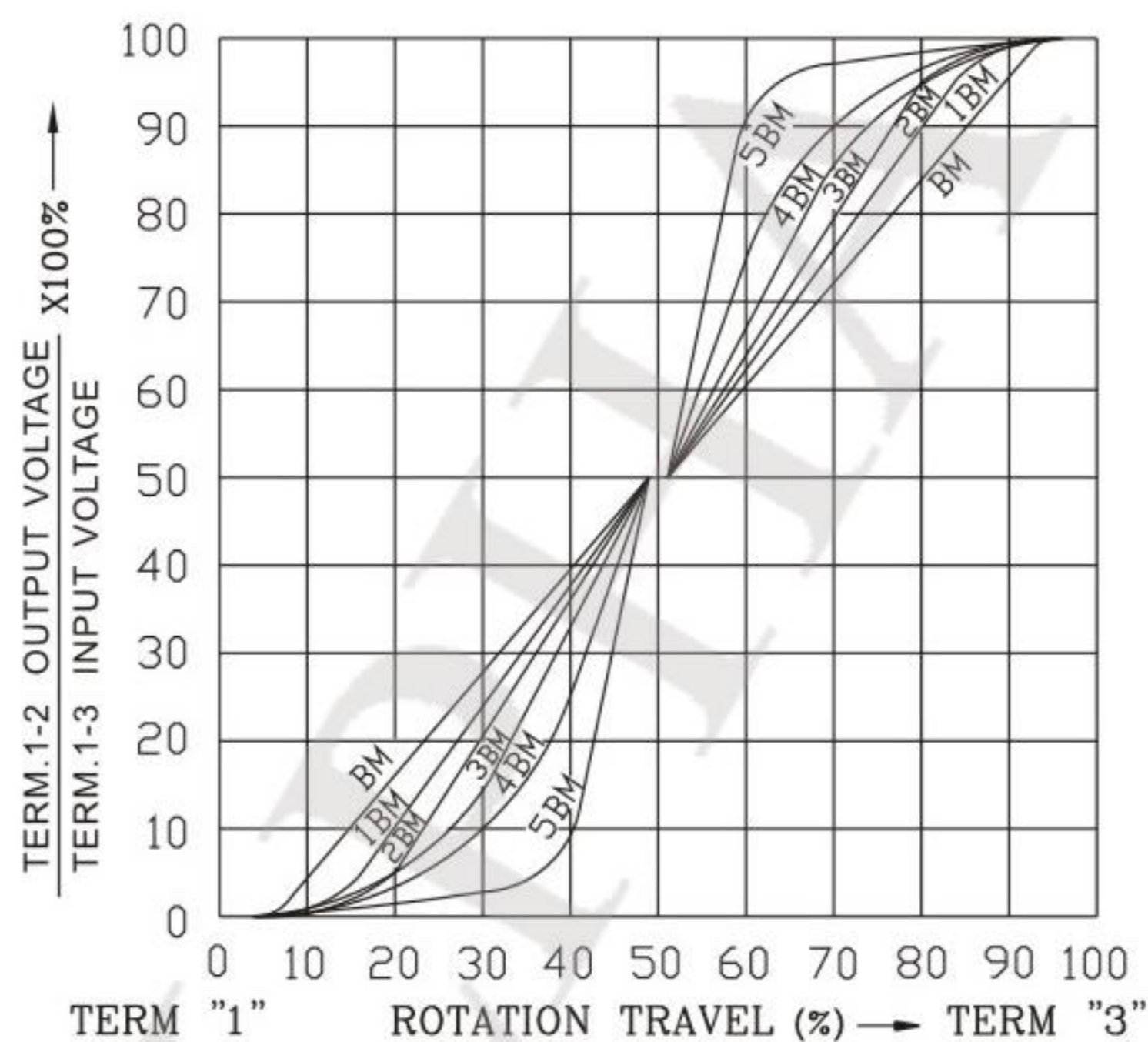
Axis angle is shown in full counter clockwise position

# STANDARD RESISTANCE TAPER

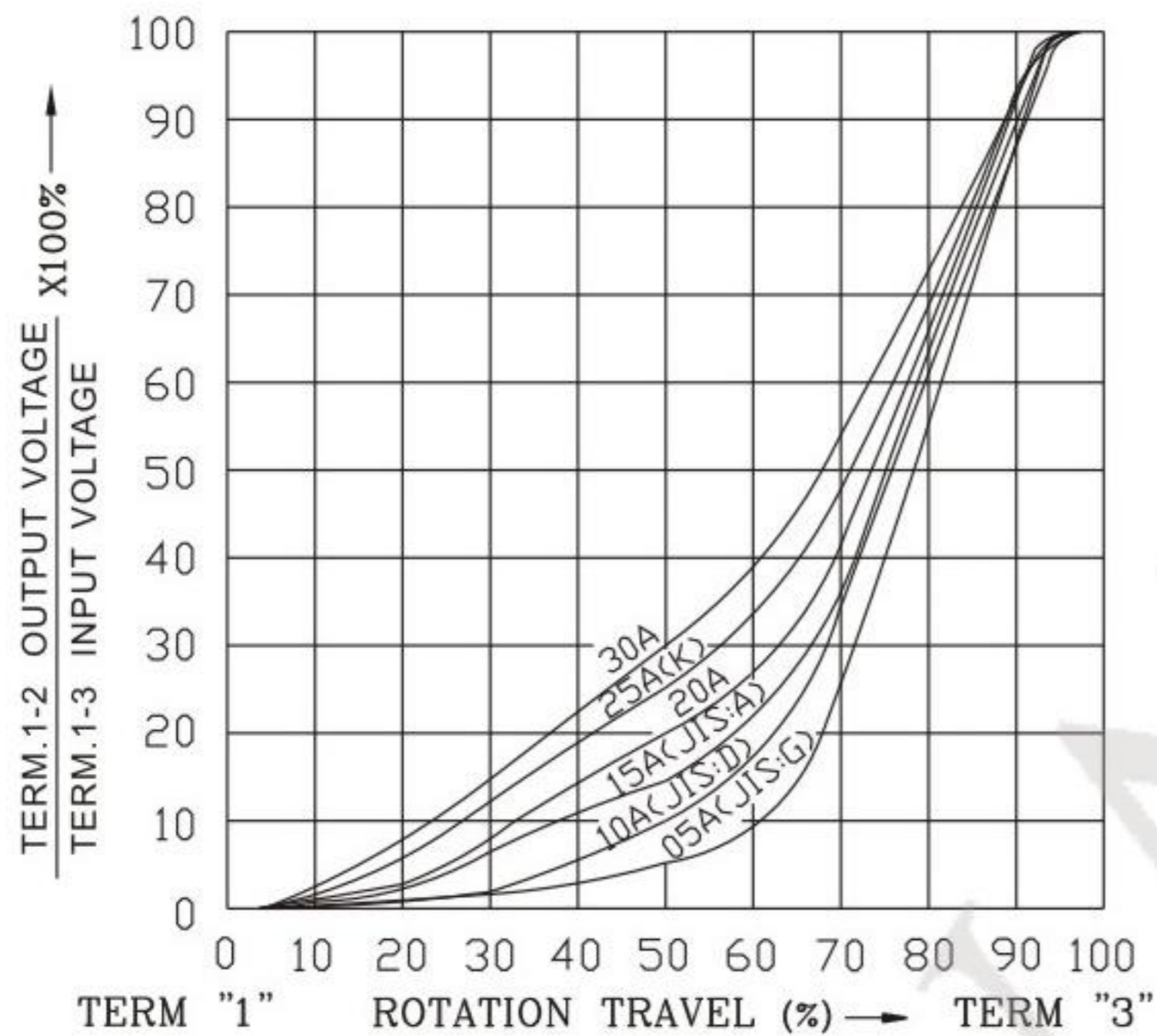
### TAPERS B SERIES



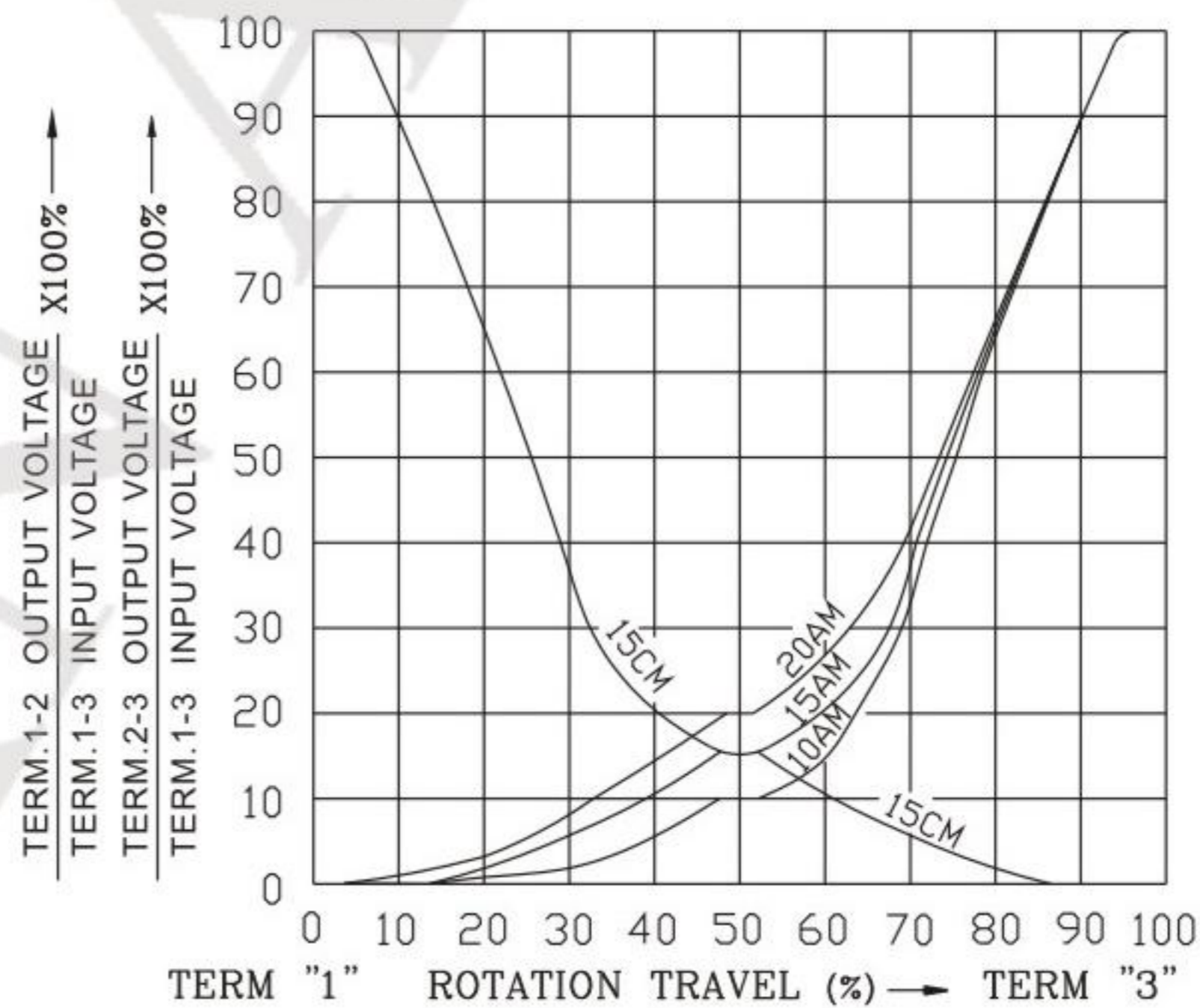
### TAPERS B WITH 50% TAP



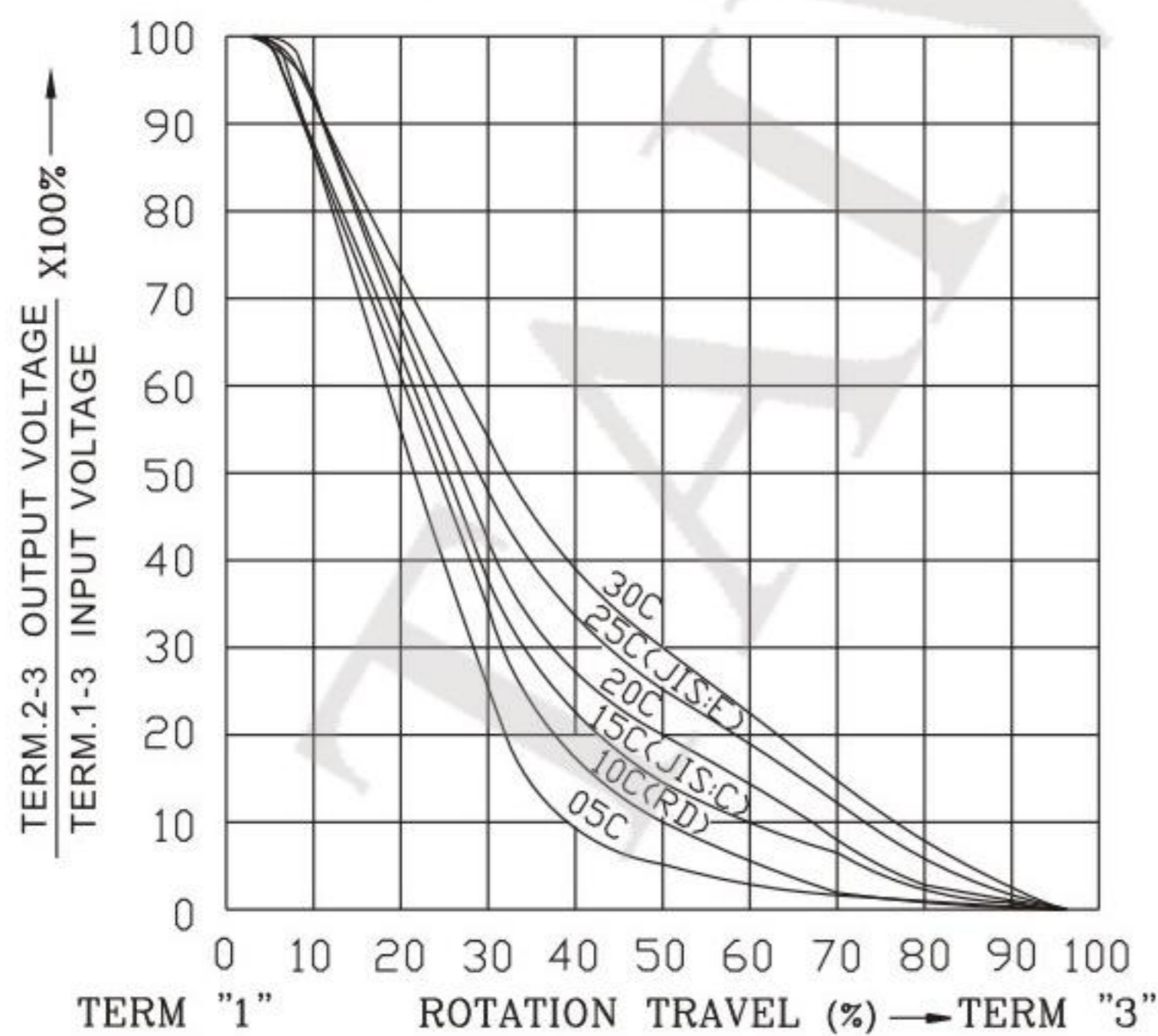
### TAPERS A SERIES



### TAPERS A & C WITH 50% TAP



### TAPERS C SERIES



### TAPERS M & N

