

TYPE WDG/WLG/WSG OFF-CIRCUIT TAP CHANGER

Shanghai Huaming Power Equipment Co.,Ltd.



TYPE WDG/WLG/WSG OFF-CIRCUIT TAP CHANGER

Type designation

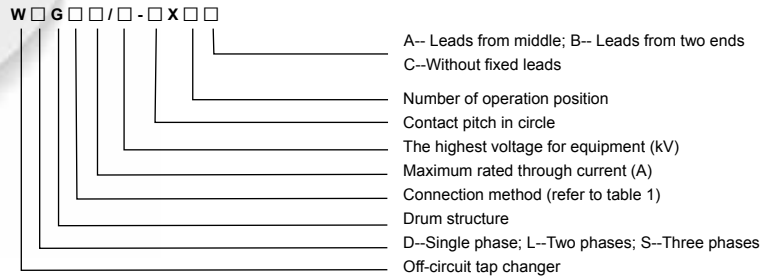


Table 1 Tap Changer Basic Connection Method and Mark

Mark	IV	V	VI	VII	VIII	II
Connection	Linear	Single-bridging	Y-D change-over	Double-bridging	Series-parallel Change-over	Reversing



Type A
1 phase/2 phases/3 phases
Leads from middle of radial



Type B
Single phase
Leads from axial



Type C
3 phases
Without fixed leads

Features

- Compact structure, easy connection, save the transformer space.
The moving contact support frame equips with guides, make the tap changing smoothly and reliably.
The transmission components of the tap changer is made of Low-magnetic materials, to avoid any magnetic flux leakage effect.
- Reliable orientation, better feeling for manual operating.
Adopt epoxy glass fiber insulation cylinder, to ensure the better mechanical characteristics and electric strength.
- Suitable for both standard tank and bell-type tank transformer.
Operation method including top manual, side manual from top transmission or from bottom transmission, motor driving at side.

Technical Parameter

Table 1-1 Drum Series Off-Circuit Tap Changer Technical Data

Item	Type	WDG (single phase), WLG (2-phases), Type A										
1	No. of Phase	1-phase / 2-phase										
2	Max. rated through current(A)	250	300	400	500	600	800	1000	1250	1600	2000	
3	Short circuit current test (kA)	Thermal (3s)	5	5.4	6	7	8	10	12	14	16	20
		Dynamic (Peak)	12.5	13.5	15	17.5	20	25	30	35	40	50
4	Connection	Linear (IV), single-bridging (V), Y-D change-over (VI), Double-bridging (VII), series-parallel (VIII) ,reversing (II)										
5	Rated frequency (Hz)	50 or 60										
6	Maximum operation positions	5(IV)	7(V,VII)	2(VI, VIII)	7(II)							
7	Insulation to earth(kV)	The highest voltage for equipment	12	40.5	72.5	126						
		Rated separate source AC withstand voltage (50Hz, 1min)	35	85	140	230						
		Rated lightning impulse withstand voltage (1.2/50)	75	200	350	550						
8	Internal insulation	Refer to clause 4.4 of technical data										
9	Operation method	Manual operation on top or at side, motor driving at side										

- Remark: 1. For linear (IV) and single-bridging (V), the max. rated through current can be up to 2000A and the highest voltage for equipment can be reached to 126kV
2. For Y-D change-over (VI) and series-parallel (VIII), the max.rated through current can be up to 1000A and the highest voltage for equipment is 40.5kV
3. For double-bridging (VII), the max.rated through current can be up to 1000A and the highest voltage for equipment can be reached to 126kV
4. For reversing (II), the max.rated through current can be up to 1600A and the highest voltage for equipment can be reached to 126kV

Table 1-2 Drum Series Off-Circuit Tap Changer Technical Data

Item	Type	WSG (3 phases), Type A								
1	No. of Phase	3-phase								
2	Max. rated through current(A)	250	300	400	500	600	800	1000		
3	Short circuit current test (kA)	Thermal (3s)	5	5.4	6	7	8	10	12	
		Dynamic (Peak)	12.5	13.5	15	17.5	20	25	30	
4	Connection	Linear (IV), single-bridging (V), reversing (II)								
5	Rated frequency (Hz)	50 or 60								
6	Maximum operation positions	5(IV)	7(V,II)							
7	Insulation to earth(kV)	The highest voltage for equipment	12	40.5	72.5	126				
		Rated separate source AC withstand voltage (50Hz, 1min)	35	85	140	230				
		Rated lightning impulse withstand voltage (1.2/50)	75	200	350	550				
8	Internal insulation	Refer to clause 4.4 of technical data								
9	Operation method	Manual operation on top or at side, motor driving at side								



Technical Parameter

Table 1-3 Drum Series Off-Circuit Tap Changer Technical Data

Item	Type	WDG (single phase), Type B										
1	No. of Phase	Single phase										
2	Max. rated through current(A)	250	300	400	500	600	800	1000	1250	1600	2000	
3	Short circuit current test (kA)	Thermal (3s)	5	5.4	6	7	8	10	12	14	16	20
		Dynamic (Peak)	12.5	13.5	15	17.5	20	25	30	35	40	50
4	Connection	Linear (IV), single-bridging (V)										
5	Rated frequency (Hz)	50 or 60										
6	Maximum operation positions	5										
7	Insulation to earth(kV)	The highest voltage for equipment	12	40.5	72.5	126	252					
		Rated separate source AC withstand voltage (50Hz, 1min)	35	85	140	230	460					
		Rated lightning impulse withstand voltage (1.2/50)	75	200	325	550	1050					
8	Internal insulation	Refer to clause 4.4 of technical data										
9	Operation method	Manual operation on top or at side, motor driving at side										

Table 4 Table 1-4 Drum Series Off-Circuit Tap Changer Technical Data

Item	Type	WSG (3 phases), Type C									
1	No. of Phase	3-phase									
2	Max. rated through current(A)	250	300	400	500	600	800	1000	1250	1600	
3	Short circuit current test (kA)	Thermal (3s)	5	5.4	6	7	8	10	12	14	16
		Dynamic (Peak)	12.5	13.5	15	17.5	20	25	30	35	40
4	Connection	reversing (II)									
5	Rated frequency (Hz)	50 or 60									
6	Maximum operation positions	7									
7	Insulation to earth(kV)	The highest voltage for equipment	12	40.5	72.5	126					
		Rated separate source AC withstand voltage (50Hz, 1min)	35	85	140	230					
		Rated lightning impulse withstand voltage (1.2/50)	75	200	350	550					
8	Internal insulation	Refer to clause 4.4 of technical data									
9	Operation method	Manual operation on top or at side, motor driving at side									

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