DGG

BROCHURE / CATALOG >>>>>

https://www.dggpower.com

DGG 登高

DGG 登高

ZN63S(VS1^{+}) – 12

VACUUM CIRCUIT BREAKER

INDOOR / THREE-PHASE / HIGH-VOLTAGE



登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.

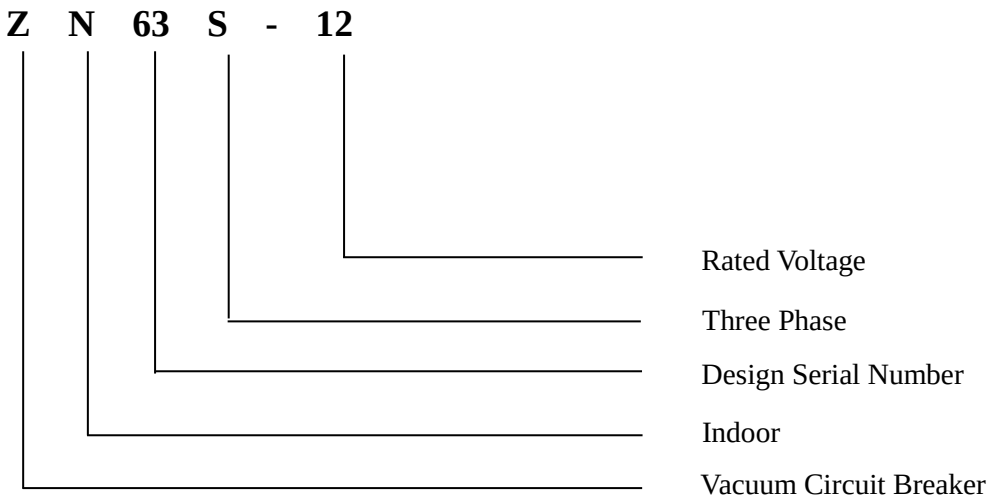
ZN63S (VS1^{+}) - 12 INDOOR VACUUM CIRCUIT BREAKER

1. SUMMARY

ZN63S (VS1) - 12 series indoor high-voltage vacuum circuit breakers (hereinafter referred to as "circuit breakers") are indoor high-voltage switchgear with a rated voltage of 12kV and three-phase AC 50Hz. They are used as protection and control units for power grid equipment and power equipment of industrial and mining enterprises. It is applicable to places requiring frequent operation under rated working current or breaking short-circuit current many times.

The circuit breaker complies with technical standards such as GB / T1984 - 2003 and DL / T402 - 2007.

2. MODEL AND MEANING



3. USAGE: ENVIRONMENTAL CONDITIONS

1. Ambient air temperature: maximum +40 ℃, minimum - 15 ℃, daily temperature difference +35
2. Temperature: daily average relative humidity ≤ 95%, monthly average relative humidity ≤ 90%
3. Altitude: Not more than 2000m
4. Installation Site: It shall be free from fire, explosion, corrosive gas and violent vibration
5. If users have special requirements, they shall make detailed instructions when ordering

4. MAIN ADVANTAGES

1. High service life: the mechanical life is 30000 times, the number of full capacity short-circuits current interruptions are 50 times, and frequent operation or multiple circuit current interruptions can be carried out within the working current range.
2. Commercial reliability: it is suitable for reclosing operation with various characteristics and can be used instead of imported VD4.
3. Full working condition: vertical insulating cylinder is used to prevent various special environmental impacts.
4. Maintenance-free: adopt solid insulation structure to integrate solid sealing pole.
5. Complete functions and multiple uses: it can be installed in a fixed manner, can also be moved for use, and can also be installed on the frame.
6. Standardized design: good interchangeability and versatility, especially suitable for KYN28 (GZS1) indoor central high-voltage switchgear.

5. TECHNICAL PARAMETER TABLE

No.	Item		Unit	Parameters	
1	Rated Frequency		Hz	50 / 60	
2	Rated Voltage		kV	12	
3	Rated Breaking Current		A	630	1250
4	Rated Insulation Level	Lightning Impulse Withstand Voltage (effective Value)	kV	45 (Fracture 48)	
		Power Frequency Withstand Voltage (1min)		75 (Fracture 48)	
5	Rated Short-Circuit Breaking Current		kA	20;25 31.5 40	
6	Rated Short-Circuit Closing Current (Peak value)			50;63 80 100	
7	Times of Rated Short-Circuit Breaking Current		Times	50, 30	
8	Rated Short-tine Withstand Current and Duration		s	4	
9	Mechanical Lifespan		Times	30000	
10	Rated Operating Order			O – 0.3S – CO – 180S - CO	
11	Rated Short-Circuit Breaking Current Breaking Times		Times	50	
12	Operating Mechanism Rated Closing Voltage		V	AC110/220 DC110/220	
13	Operating Mechanism Rated Opening Voltage			AC110/220 DC110/220	
14	Contact Distance		mm	11 ±1	
15	Overtravel (Crimping length of contact spring)			3(+1.0, -0.5)	
16	Three Pole Closing and Opening Non-synchronism		ms	≤ 2	
17	Contact Closing Bounce Time			≤ 2	
18	Average Opening Speed		m/s	0.9 ~ 1.3	
19	Average Closing Speed			0.4 ~ 0.8	
20	Opening Speed		ms	20 ~ 50	
21	Closing Speed			30 ~ 70	
22	Main Circuit Resistance		μΩ	≤ 50, ≤ 35	
23	Allowable Wear Cumulative Thickness of Moving and Stationary Contact		mm	3	
If the altitude is over 1000m, the rated insulation level should be modified as appropriate					

ZN63S (VS1^{+}) - 12 INDOOR VACUUM CIRCUIT BREAKER

6. OUTLINE AND INSTALLATION DIMENSION

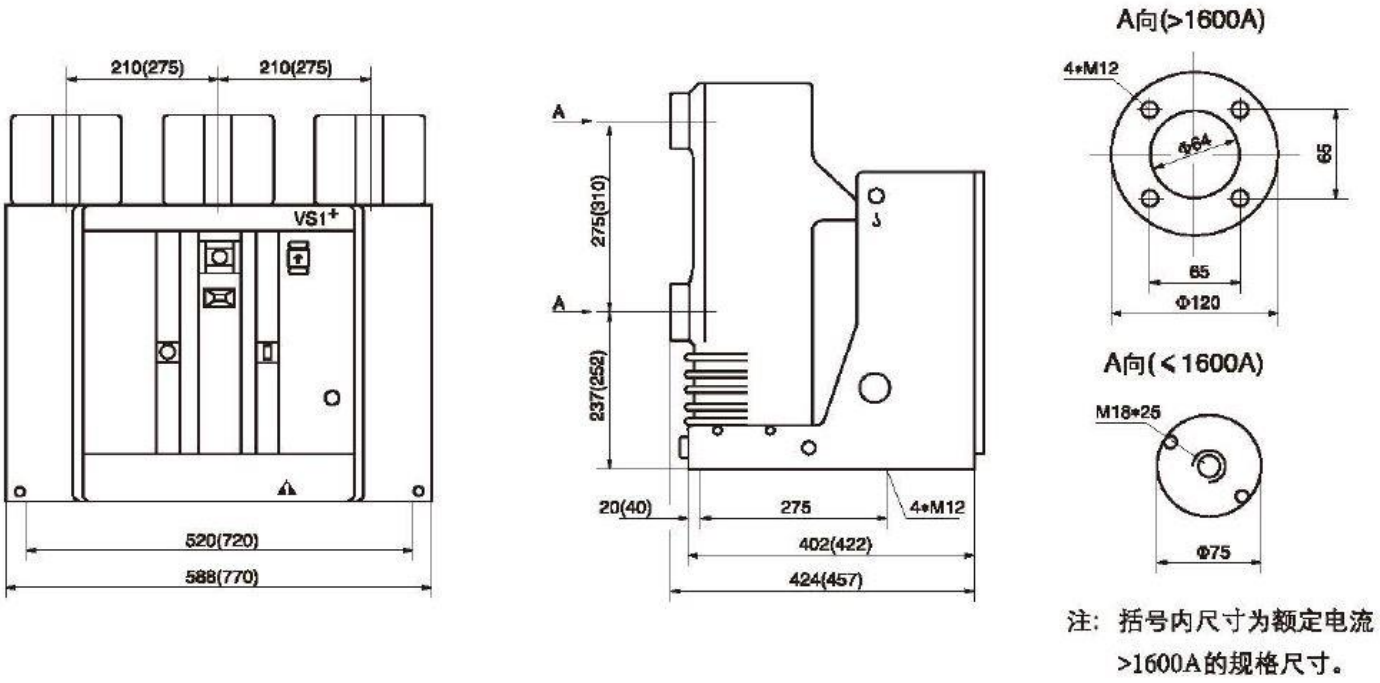


Diagram of ZN63S (VS1^{+}) – 12 Series Fixed Type Appearance and Installation Dimension

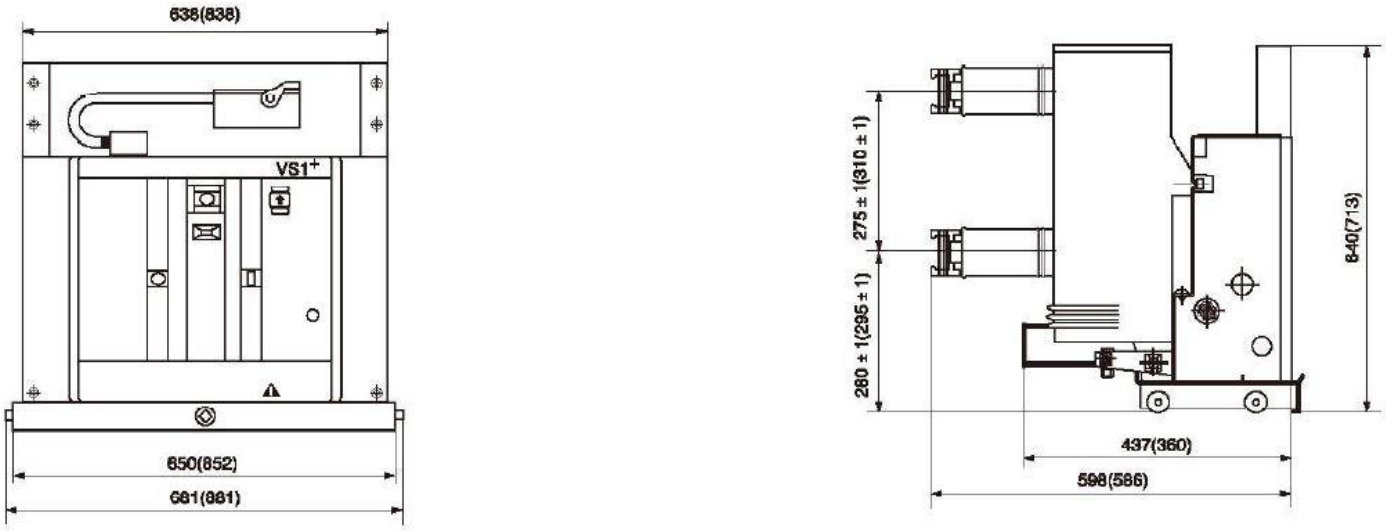


Diagram of ZN63S (VS1^{+}) – 12 Series Handcart Type Appearance and Installation Dimension

© DENGGAO ELECTRIC CO. LTD; ALL RIGHTS RESERVED

登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.
HEADQUATERS: NO. 208 WEI WU ROAD, ECONOMIC DEVELOPMENT ZONE, YUEQING-WENZHOU, ZHEJIANG-CHINA
PHONE NUMBER: 0086-577-57576678
EMAIL ADDRESS: sale@dggpower.com

DGG 登高