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ZJH – 12

FLOOR TYPE METERING BOX CIRCUIT BREAKER

OUTDOOR / THREE-PHASE / HIGH-VOLTAGE









登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.

ZJH-12 FLOOR TYPE METERING BOX CIRCUIT BREAKER

1. SUMMARY

ZJH-12 series outdoor high-voltage AC floor type metering box (hereinafter referred to as "Floor type Metering box") is applicable to three-phase AC 50Hz and rated voltage 12kV three-phase power system. It can be used for power metering of high-voltage cable incoming users. It can be installed in parks, residential areas, and roadside lawns in industrial and mining areas. It can directly open the door to check the meter low and conduct on-site breaker opening and closing operations.

The floor-type metering box is mainly composed of a vacuum circuit breaker, casting type combined transformer, lightning arrester, live display, and intelligent control device. Its metering methods include a three-phase three-wire system and a three-phase four-wire system. It can be configured with a zero sequences current transformer for grounding protection.

The floor type metering box meets the requirements of GB / T 1984-2014 high voltage AC circuit breaker, DL / T 402-2016 high voltage AC circuit breaker, and DL / T 403-2000 technical conditions for ordering 12kV ~ 40.5kV high voltage vacuum circuit breaker, GB / t17201-2007 and DL / T 721-2013 remote terminal of the distribution automation system..

2. MODEL AND MEANING

Z J H – 12 (F) □

- □ — Metering Wiring Mode (Y: 3-phase, 4-wire system, V: 3-phase, 3-wire system)
- (F) — Boundary
- 12 — Rated Voltage
- H — Floor (Box) Type
- J — Prepaid Metering
- Z — Vacuum Circuit Breaker

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3. USAGE: ENVIRONMENTAL CONDITIONS

1. Altitude: ≤ 1000 m. If the altitude is higher than 1000m, the rated insulation level shall be corrected.
2. Ambient air temperature: maximum 40 ℃, minimum - 25 ℃, daily temperature difference 25k
3. Temperature: daily average relative humidity ≤ 95%, monthly average relative humidity ≤ 90%
4. Sunshine intensity: 0.1W/cm^2
5. Icing thickness: not more than 10mm
6. Resistance to floor drain: horizontal acceleration 0.3g, vertical acceleration 0.2g
7. Outdoor Wind speed (Wind pressure): 34m/s (700Pa)
8. Pollution level: e-level

4. MAIN ADVANTAGES

1. Small floor area, low investment, and high-cost performance;
2. It has the functions of automatic power transmission, data processing, display, storage, alarm, and automatic power off;
3. Equipped with anti-stealing device, it can reduce unnecessary power loss for the power system;
4. It has the function of prepayment to prevent the user from defaulting on electricity charges;
5. The box is of stainless steel floor type structure, with a beautiful appearance and convenient installation.

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5. TECHNICAL PARAMETER TABLE

High Voltage Metering Part Main Technical Parameters

No.	Item		Unit	Parameters
1	Rated Frequency		Hz	50 / 60
2	Power Factor (cosϕ)			0.8 (Lag)
3	Rated Breaking Current	3-Phase, 3-Wiring System	kV / min	10
		3-Phase, 4-Wiring System		10 / √3
4	Rated Primary Voltage	3-Phase, 3-Wiring System		0.1 / 0.22
		3-Phase, 4-Wiring System		(0.1 / √3) / 0.22
5	Voltage Transformer Wiring Method	3-Phase, 3-Wiring System		V - V
		3-Phase, 4-Wiring System		Y - Y
6	Rated Primary Current		A	5 ~ 600
7	Rated Secondary Current			5
8	Voltage Transformer Accuracy Level Times			0.2 / 3
9	Current Transformer Accuracy Level Times			0.2S
10	Voltage Transformer Rated Output		VA	15 / 200
11	Voltage Transformer Limited Output			500 (Level 3)
12	Current Transformer Rated Output			10
13	Polarity			Minus
14	Rated Short-Time Power Frequency Withstand Voltage		kV / min	42 / 1
15	Rated Lightning Impulse Withstand Voltage		kV	75

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Vacuum Circuit Breaker Body Main Technical Parameters

No.	Item		Unit	Parameters	
1	Rated Frequency		Hz	50 / 60	
2	Rated Voltage		kV	12	
3	Rated Breaking Current		A	630	1250
4	Rated Short-time Power Frequency Withstand Voltage	Phase, To Earth (Wet)	kV / min	34 / 1	
		Phase, To Earth (Dry)		42 / 1	
		Fracture (Dry)		48 / 1	
		Secondary Circuit to Earth		2 / 1	
5	Lightning Impulse Withstand Voltage	Phase, To Earth	kV	75	
		Fracture		85	
6	Rated Short-Circuit Breaking Current		kA	20	25
7	Rated Short-Circuit Making Current (Effective value)			50	63
8	Rated Short-Time Withstand Current and Continuous Time		kA/s	20/4	25/5
9	Rated Peak Value Withstand Current		kA	50	63
10	Rated Short-Circuit Breaking Current Breaking Times		Times	30	
11	Rated Operating Voltage & Auxiliary (Control) Circuit Rated Voltage		V	AC/DC220, DC220	
13	Mechanical Life Span		Times	10000	
If the altitude is over 1000m, the rated insulation level should be modified as appropriate					

Note: If the parameters requested by the user are beyond the scope of the above table, they can be determined after consultation with our company.

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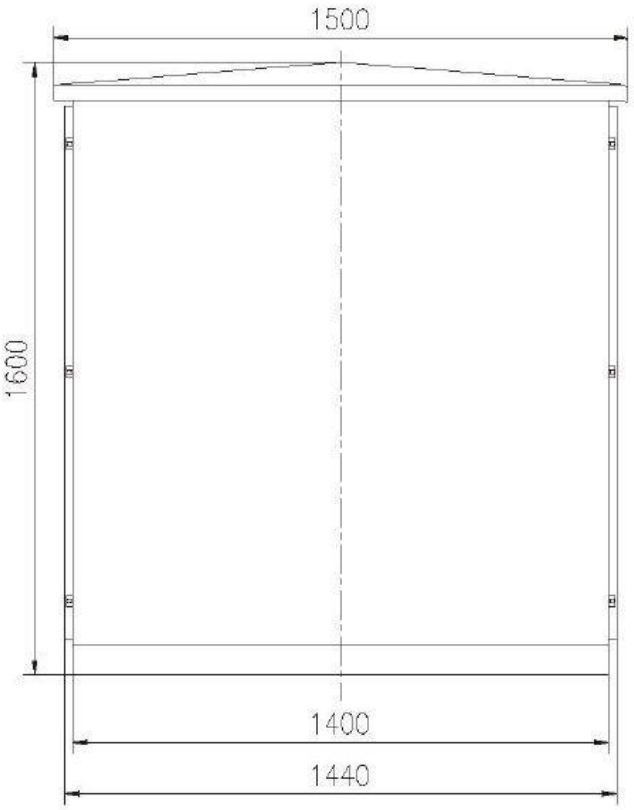
6. OUTLINE AND INSTALLATION DIMENSIONS





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