

7000 kVA transformer station specification			
序号		型号/Model	MV7000
1		额定容量 (kVA) @40℃ Rated Power	7000
4		额定输入电压 (kV) Input at rated voltage	0.69
5		额定电压下的最大输入电流 (A) Maximun input current at rated voltage	2878.8
6		额定输出电压 (kV) Rated Output Voltage	20
7	变压器 TR	最高电压 (kV) Max Voltage	24
8		频率 (Hz) Frequency	50
9		变压器绕组材质 Transformer winding material	铝制 AL
10		联结组别 Transformer Vector Group	Dy11-y11
11		阻抗电压 Impedance	8% (-10~+10%)
12		变压器分接范围 Transformer Tappings	±2 × 2.5%
13		空载损耗 NO-LOAD LOSS	/
14		负载损耗 LOAD LOSS	/
15		能效值 PEI	Tier1或Tier2
16		绝缘等级 Insulation class	A
17		变压器类型 Transformer Type	油浸式 Oil-immersed, fully sealed
18		冷却方式 Transformer Cooling Type	ONAN
19		绝缘油类型 Oil Type	矿物油mineral oil
20		变压器保护 Transformer Detection & Protection	液位、油温、油压、瓦斯继电器等 Oil Level, Oil Temperature, Oil Pressure and Buchholz
21		变压器温度控制器	BWY
22		执行标准 (IEC/EN) Standard compliance	IEC60076, EN50588-1
23	中压设备 RMU	中压开关柜 Medium voltage switch cabinet	RMU
24		绝缘类型 Insulation type	SF6 FREE
25		额定电压 (kV) Rated voltage	24
26		额定电流 (A) Rated current	630
27		额定工频耐受电压 (1min) / (kV) Rated power frequency withstand voltage (1min)	50
28		额定雷电冲击耐压 (峰值) / (kV) Rated lightning impulse withstand voltage (peak)	125
29		额定短路开断电流 (3s/kA) Rated short circuit breaking current	20
30		额定关合电流 (峰值/kA) Rated short circuit making current (peak)	50
31		主回路额定短时耐受电流 (kA) /3s Rated short-time withstand current of primary circuit	20
32		接地回路额定短时耐受电流 (kA) Rated short-time withstand current of earthing circuit	20
33		电流互感器 Current transformer	200/1A
34		内部燃弧等级 IAC class	AFL, 20kA, 1s
35		气箱防护等级 Gas tank protection degree	IP65
36		气体年泄漏率 (%/year) Gas leakage rate per year	≤0.1%
37		继电保护 MV Relay Protection	50/51, 50N/51N
38		产品种类 Product range	CCV

39	低压设备 LV panel	避雷器 Surge arrester	V柜可选配
40		执行标准 (IEC/EN) Standard compliance	IEC62271-200
41		电流互感器 Current transformer	3000/1A, 0.5, 10VA
42		空气断路器 ACB	4000A *2
		塑壳断路器 MCCB	250A *32
43		辅助变压器 Auxiliary Transformer	100kVA
44		浪涌保护器开关 LV Overvoltage Protection	12.5/3P+1
45		浪涌保护 LV Overvoltage Protection	Yes
47		智能电表 smart meter	Yes
48		箱变测控装置 Box transformer measurement and control device	Yes
49		微型断路器 (MCB) 剩余电流动作保护器 (RCBO)	分断能力Icu/Ics= 4 kA
50		执行标准 (IEC/EN) Standard compliance	IEC61439-1
51		不间断电源 UPS	1kVA/0.5h
52		辅助变压器 Auxiliary Transformer	/
54	常规参数 other	箱体尺寸 Dimensions (W x H x D)	6058 x 2896 x 2438 mm
55		防护等级 Protection Degree of MV & LV Room	中压室及低压室 IP54 IP54 for LV / MV room
56			变压器本体 IP68 IP68 for transformer body
57		重量 Weight	around 30t
58		工作温度范围 Operating Temperature Range	-25° C~55° C (>40° C derating)
59		相对湿度 Relative Humidity	0%~95% (Non-condensing)
60		最大海拔高度(m) Max. Operating Altitude	1000m/>1000 (可选) 1000m/>1000 (optional)
61		防腐等级 Anti-rodent Protection	C4-H
62		中低压交流连接 MV-LV AC Connections	内部已布线连接且通过测试, 施工简单, 现场无需布线 Prefabricated and pre-tested, simple installation onsite without internal cabling
63		低压室与中压室冷却方式 LV & MV Room Cooling	智能控制冷却 Smart Cooling
64		通讯协议 Communication protocol	Ethernet
65		执行标准 (IEC/EN) Standard compliance	IEC 62271-202