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1. Scope of Accreditation for the Testing Laboratory (Center)

**Testing Center of High-voltage Equipment**

**Joint Stock Company «Research and Development Center at Federal Grid Company of Unified Energy System»**

**Unique number of record in registry of accredited bodies № RA.RU.21МВ06**

Testing Laboratory (Testing Center) Name

**127566, Moscow, Vysokovoltny proezd, 13**

Business Address

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| No. | Documents establishing rules and techniques of research (testing) and measurements | Equipment | OKPD 2 code | TN VED EAEU code | Defined parameter | Range |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | GOST 11677 Section 7 (table 23 §8, 17) | Power transformers, transformers and transforming power electro-oven units | 27.11.4 | 8504 21  8504 22  8504 23 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 2 | GOST 11677 Section 7 (table 23. §13) | Power transformers; transformers and transforming power electro-oven units | 27.11.4 | 8504 21  8504 22  8504 23 | Short-time withstand tests and current striking shocks.  0,1 to 208 kV | Irms 0,1 to 70 kA  Idyn 0,1 to 180 kA  0,1 to 4 s  Compliant/  noncompliant |
| 3 | GOST 11677 §7.1 | Power transformers | 27.11.4 | 8504 21  8504 22  8504 23 | Perform of inspections:  - checking of requirements to grounding (during checking of safety requirements) | 1 to 500 mm  compliant/  noncompliant |
| - presence of device for slinging and horisontal movement (during checking of safety requirements) | compliant/  noncompliant |
| - presence of devices for tank protection against internal pressure increasing (during checking of safety requirements) | compliant/  noncompliant |
| - presence of oil level marker and valve for selection of oil sample (during checking of safety requirements) | compliant/  noncompliant |
| - marking and presence of nameplate (during checking of safety requirements) | compliant/  noncompliant |
| - for way of protection (during checking of safety requirements) | compliant/  noncompliant |
| 4 | GOST 17544 § 6.1; 6.3 | Power transformers | 27.11.4 | 8504 21  8504 22  8504 23 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 5 | GOST R 52719 Section 10 (table 11 §8, 17) | Power transformers | 27.11.4 | 8504 21  8504 22  8504 23 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 6 | GOST R 52719 Section 10 (table 11 §13) | Short-time withstand tests and current striking shocks.  0,1 to 208 kV | Irms 0,1 to 70 kA  Idyn 0,1 to 180 kA  Compliant/noncompliant |
| 7 | GOST R 52719 Section 10 (table 11 §14) | Checking of sound power level (during checking of safety requirements) | 0 to 130 dBA  compliant/  noncompliant |
| 8 | GOST R 52719 §10.1 | Perform of inspections:  - checking of requirements to grounding (during checking of safety requirements) | 1 to 500 mm  compliant/  noncompliant |
| - presence of device for slinging and horisontal movement (during checking of safety requirements) | compliant/  noncompliant |
| - presence of devices for tank protection against internal pressure increasing  (during checking of safety requirements) | compliant/  noncompliant |
| - presence of oil level marker and valve for selection of oil sample  (during checking of safety requirements) | compliant/  noncompliant |
| - marking and presence of nameplate  (during checking of safety requirements) | compliant/noncompliant |
| - for way of protection  (during checking of safety requirements) | compliant/  noncompliant |
| 9 | GOST R 52719 Section 10 (table 11 §19) | - for fire safety requirements  (during checking of safety requirements)  Statistic analisys | compliant/  noncompliant |
| 10 | GOST 12.2.024 Section 2 | Power transformers; transformers and reactors transforming | 27.11.4  27.11.5 | 8504 210000  8504 220000  8504 230000 | Checking of sound power level (during checking of safety requirements) | 0 to 130 dBA  compliant/  noncompliant |
| 11 | GOST 12.1.004 Annex 3 | Power transformers; transformers and reactors transforming; transformers and transforming power electro-oven units | 27.11.4  27.11.5 | 8504 210000  8504 220000  8504 230000 | Checking for fire safety requirements (during checking of safety requirements)  Statistic analisys | compliant/  noncompliant |
| 12 | GOST 12.2.007.0 § 3.3.7 | Power transformers; transformers and reactors transforming | 27.11.4  27.11.5 | 8504 210000  8504 220000  8504 230000 | Checking of resistance between grounding bolt and each accessible for touch metal non-currentcarrying part (during checking of safety requirements) | 0,001 to 200 Ω  compliant/  noncompliant |
| 13 | GOST R 55016 § 11.1; 11.3 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 14 | GOST R 51559 § 7.1 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 15 | GOST 30830 §10.1 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |

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| 16 | GOST 12965 §6.1.2 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |
| 17 | GOST 16555 § 4.1 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |
| 18 | GOST R 54827 §23 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |
| 19 | IEC 60076-11 §10 | Power transformers | 27.11.4 | 8504 210000  8504 220000  8504 230000 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |
| 20 | GOST 3484.2 Section 2-6 | Power transformers, transformers and reactors transforming, transformers and transforming power electro-oven units; reactors, including current-limiting. | 27.11.4  27.11.5 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 3000 С  1 μΩ to 2000 Ω |
| 21 | GOST 3484.1 Section 2 | Power transformers, transformers and reactors transforming, transformers and transforming power electro-oven units. | 27.11.4 | 8504 21  8504 22  8504 23 | Checking of transformer factor | 1 to 100  compliant/  noncompliant |
| 22 | GOST 3484.1 Section 4 | Measurement of resistance of coils to DC current | 1 нΩ to 10 кΩ  Passed / failed |
| 23 | GOST 3484.1 Section 5 | Measurement of losses and short-circuit voltage | 0 to 12 kW  0 to 100 %  Passed / failed |

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| 24 | GOST 3484.1 Section 6 |  |  |  | Measurement of losses and no-load current | 0 to 12 kW  0 to 100 %  Passed / failed |
| 25 | GOST 20243 | Power transformers, transformers and reactors transforming, transformers and transforming power electro-oven units. | 27.11.4  27.11.5 | 8504 | Short-time withstand tests and current striking shocks.  0,1 to 208 kV | Irms 0,1 to 70 kA  Idyn 0,1 to 180 kA  compliant/  noncompliant |
| 26 | GOST 16772 § 5.15; 5.20; | Transformers and reactors transforming | 27.11.4 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 27 | GOST 16772 § 5.1, 5.19, 5.21 | Checking for compliance with safety requirements | 1 to 500 mm  0 to 130 dBA  compliant/  noncompliant |
| 28 | IEC 61378-1 §7.6 | Transformers transforming | 27.11.4 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 29 | IEC /IEEE 60076-57-129 §9.13 | Transformers transforming | 27.11.4 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 30 | GOST 20247 §6.1 | Transformers and transforming power electro-oven units | 27.11.4 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |

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| 31 | GOST 14794 §§6.6; 6.11 | Reactors, including current-limiting reactors | 27.11.4 | 8504 | Temperature rise tests with rated current:  0 to 20000 А  0,1 to 35 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 32 | GOST 14794 §6.12. | Tests for withstand during short-circuits  0,1 to 12 kV | Irms 0,1 to 40 kA  Idyn 0,1 to 102 kA  0,1 to 0,22 Ω  0,1 to 3 s  compliant/  noncompliant |
| 33 | GOST 20248 Section 2 | Prefabricated substations (KTP) | 27.11.4 | 8537 200000 | Temperature rise tests with rated current:  10 to 20 000 А  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 34 | GOST 20248 Section 3 | Short-time withstand tests, including for tests for safety requirements:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA |
| 35 | GOST 20248 Section 4 | Checking of external view, correctness of fulfil operating circuits, marking | Compliant/  noncompliant |
| 36 | GOST 20248 Section 7 | Tests of mechanical strength of elements of construction during multiple operations,including during tests for safety requirements:  - control of mechanical characteristics and serviceability of operation mechanisms  - checking of forces during operation  - checking of blockings operation  - checking of operating equipment | Compliant/  noncompliant  Compliant/  noncompliant  1 to 10 000 N  Compliant/  noncompliant  compliant/  noncompliant |

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| 37 | GOST 20248 Section 13 |  |  |  | Control assembly and mutual replacement of one-type withdrawable of apparatuses, including for tests for safety requirements:  - geometrical dimensions  - mass  - checking of blockings operation | Compliant/  noncompliant  1 mm to 5 000 mm  1 to 10 000 kg |
| 38 | GOST 20248 Section 12 | Tests for strength during transporting  External, checking of serviceability of elements and package | Passed / failed  Compliant/  noncompliant |
| 39 | GOST 20248 Section 14 | Prefabricated substations (KTP) | 27.11.4 | 8537 200000 | Tests for compliance with safety requirements | compliant/  noncompliant |
| 40 | GOST 19294 §5.10 | Low power general purpose transformers for voltage to 1000 V\* | 27.11.4 | 8504 | Temperature rise tests with rated current:  - temperature rise  - measurement of resistance | Passed / failed  1 to 300 0С  1 μΩ to 2000 Ω |
| 41 | GOST 19294 §5.12.1 | Measurement of Insulation resistance. | 10-3 to 106 Ω.  Compliant/  noncompliant |
| 42 | GOST 19294 §5.3 | Test of insulation with increased voltage | 0 to 5 kV  compliant/  noncompliant |
| 43 | GOST 19294 §5.11 | Tests for withstand during short-circuits  0,1 to 2 kV | 0,1 to 0,5 kA  compliant/  noncompliant |
| 44 | GOST 8024 Section 2 | High-voltage circuit-breakers, disconnectors and earthing switches, fault interrupters and short-circuit makers, switchgears type of KRU and KSO, switchgears with SF6 insulation (GIS), current transformers, busducts, bushing insulators | 27.12  27.11 | 8535  8537  8504  8046 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Passed / failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 2000 Ω |

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| 45 | GOST 1516.3 § 4.14 | AC current electrical installations of 3 to 750 kV | 27.12.1  27.12.2  27.12.3  27.12.4 | 8504  8535  8536  8537  8544  8546 | Tests of insulation of control circuits, of auxiliary circuits  (0 to 5 kV) | 0 to 5 kV  Compliant /  noncompliant |
| 46 | GOST 1516.3 § 13.6 | Switchgears with SF6 insulation (GIS) of 110 kV and higher | 27.12.10.190 | 8537 200000 | Tests of insulation of control circuits, of auxiliary circuits  (0 to 5 kV) | 0 to 5 kV  Compliant /  noncompliant |
| 47 | GOST R 52565 §9.1 | AC current circuit-breakers for voltage 3 to 750 kV | 27.12.10.110 | 8535 210000  8535 290000 | Tests for compliance requirements to construction and requirements to assembling drawing, completeness, including during safety checking:  - geometrical, mounting and connecting dimensions  - mass  - condition of protective surfaces  - condition of surface of external insulating parts  - correctness of filling of nameplate  - correctness of marking and branding  - compliance of mounted auxiliary equipment | 0 to 5000 mm  Compliant /  noncompliant  0 to 10000 kg  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 48 | GOST R 52565 §9.2.1-9.2.3 | AC current circuit-breakers for voltage 3 to 750 kV | 27.12.10.110 | 8535 210000  8535 290000 | Tests for mechanical capability, including during safety checking:  - control of mechanical, electrical and time characteristics  - correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  0 to 10000 N  Compliant /  noncompliant |
| 49 | GOST R 52565 § 9.2.4 | Tests for reliability of mechanical capability:  - control of mechanical, electrical and time characteristics  - control serviceability of operation mechanismes  - control of electrical resistance | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 1000 Ω)  Compliant /  noncompliant |
| 50 | GOST R 52565 § 9.3.5 | Control of electrical strength of insulation after switching tests and mechanical wearing tests | Compliant /  noncompliant |
| 51 | GOST R 52565 §9.4 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 1000 Ω  1 to 100 ms |
| 52 | GOST R 52565 §9.5 | AC current circuit-breakers for voltage 3 to 750 kV | 27.12.10.110 | 8535 210000  8535 290000 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed /  failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |

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| 53 | GOST R 52565 §9.6 - 9.8 |  |  |  | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant / noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 54 | GOST 17717 § 7.1 | High-voltage load switches | 27.12.10.110 | 8535 210000  8535 290000 | Tests for compliance requirements to construction and requirements to assembling drawing, completeness, including during safety checking:  - geometrical, mounting and connecting dimensions  - mass  - condition of protection surfaces  - condition of surface of external insulating parts  - condition of surface areas for grounding bolts and presence of sign "Earth"  - correctness of filling of nameplate  - correctness of marking and branding | (0 to 5000 mm)  Compliant /  noncompliant  (0 to 10000 kg)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |

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| 55 | GOST 17717 §7.3 | High-voltage load switches | 27.12.10.110 | 8535 210000  8535 290000 | Temperature rise tests with rated current:  - current  - temperature rise  - own times | Passed/ failed  10 to 20 kA  1 to 300 0 С  1 to 100 ms |
| 56 | GOST 17717 § 7.4 | Tests for mechanical capability and wearing tests, including during safety checking:  - control of mechanical, electrical and time characteristics  - control correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |
| 57 | GOST 17717 § 7.5 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 мин |
| 58 | GOST 17717 § 7.7 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |

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| 59 | GOST 17717 § 7.8.1 |  |  |  | Type tests for reliability of mechanical capability | Passed / failed |
| 60 | GOST 18397 §7.3 | AC current circuit-breakers for voltage 6 to 220 kV | 27.12.10.110 | 8535 210000  8535 290000 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance  - own times | Passed/  failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 61 | GOST 18397 §7.4 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed /  failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 62 | GOST 18397 §7.5-7.7 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant/  noncompliant |
| 63 | GOST 18397 §7.9 | Tests for mechanical capability and reliability of mechanical capability:  - control of mechanical, electrical and time characteristics  - control of serviceability of operation mechanismes | Passed /  failed  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant |

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| 64 | GOST 18397 § 7.10 |  |  |  | Tests for strength during transporting.  External examination of circuit-breaker package | Compliant /  noncompliant |
| 65 | IEC 62271–100 § 6.4 | High-voltage AC current circuit-breakers | 27.12.10 | 8535 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 66 | IEC 62271–100 § 6.5 | Temperature rise tests with rated current:номинальным current  - current  - temperature rise  - resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 67 | IEC 62271–100 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed /  failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 68 | IEC 62271–100 § 6.101.1, 6.101.2 | Tests for mechanical capability and wearing tests, including during safety checking:  - - control of mechanical, electrical and time characteristics  - control correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |

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| 69 | IEC 62271–100 § 6.102-6.112 |  |  |  | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 70 | IEC 62271–101 sections 4-6 | High-voltage AC current circuit-breakers | 27.12.10 | 8535 | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 71 | IEC 62271–103 § 6.4 | High-voltage AC current circuit-breakers for voltage above 1 kV up to 52 kV including | 27.12.10 | 8535 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |

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| 72 | IEC 62271–103 § 6.5 |  |  |  | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 73 | IEC 62271–103 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 74 | IEC 62271–103 § 6.101 | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  Noncompliant |
| 75 | IEC 62271–103 § 6.102.1, 6.102.2 | Tests for mechanical capability and wearing tests, including during safety checking:  - control of mechanical, electrical and time characteristics  - control correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |
| 76 | IEC 62271–104 § 6.4 | High-voltage AC current circuit-breakers for rated voltages 52 kV and higher | 27.12.10 | 8535 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 77 | IEC 62271–104 § 6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 78 | IEC 62271–104 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 79 | IEC 62271–104 § 6.101.1-6.101.3 | Tests for mechanical capability and wearing tests, including during safety checking:  - control of mechanical, electrical and time characteristics  - control correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |
| 80 | IEC 62271–104 § 6.102-6.109 | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 81 | IEC/TR 62271–308 sections 4, 5 | High-voltage AC current circuit-breakers | 27.12.10 | 8535 | Tests for switching capability in test-duty Т100a:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  Noncompliant |
| 82 | IEC/TR 62271–310 section 4 | High-voltage AC current circuit-breakers for rated voltage above 52 kV | 27.12.10 | 8535 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 83 | GOST 14254 section 12 | Degrees of protection, provided by enclosures | 27.12.1  27.12.2  27.12.3  27.12.4 | 8504  8535  8536  8537  8546 | Degree of protection for access to dangerous parts | (0Х to 4X)  Compliant /  noncompliant |
| 84 | GOST 23216 §5.2.4.1 | Electrical equipment in package | 27.12.1  27.12.2  27.12.3  27.12.4 | 8504  8535  8536  8537  8544  8546 | Tests for transporting strength:  - mass    - completeness  - external view | Passed /  failed  (0 to 10000 kg)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 85 | GOST 9920 section 2 | AC current electrical installations for voltage 3 to 750 kV | 27.12.1  27.12.2  27.12.3  27.12.4 | 8504  8535  8536  8537  8544  8546 | Relative creepage distance (calculated).  Creepage distance of external insulation | -  Compliant /  noncompliant  (0 to 5000 mm)  Compliant /  noncompliant |
| 86 | GOST R 52726 § 8.1 | AC current disconnectors and earthing switches for voltage above 1 kV and their motors | 27.12.10.120 | 8535 30 | Tests for compliance to requirements of construction and requirements assembling drawing, completeness, including during safety checking:  - geometrical, mounting and connecting dimensions  - mass  - condition of protective surfaces  - condition of surface of external insulating parts  - correctness of filling of nameplate  - correctness of marking and branding    - correctness of regulation  - Checking of contact pressure | (1 to 5000 mm)  Compliant /  noncompliant  (0 to 10000 kg)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  (1 to 10000 N)  Compliant /  noncompliant |
| 87 | GOST R 52726 § 8.2 | Tests for mechanical capability, including during safety checking:  - control of mechanical, electrical and time characteristics  - correct operation of device mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  Noncompliant |
| 88 | GOST R 52726 § 8.5.1-8.5.3, 8.5.5 | Tests for reliability of mechanical capability:  - control of mechanical, electrical and time characteristics  - control of electrical strength of insulation  - control of electrical resistance | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 1000 Ω)  Compliant /  Noncompliant |
| 89 | GOST R 52726 § 8.5.4, 8.5.7, 8.5.8 | Tests for mechanical capability, including during safety checking:  - control of mechanical, electrical and time characteristics  - correct operation of device, mechanisms and blockings  - forces | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |
| 90 | GOST R 52726 § 8.6.2 | Checking of blocking devices, including during safety checking | Compliant /  noncompliant |
| 91 | GOST R 52726 § 8.8 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 92 | GOST R 52726 § 8.9 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 93 | GOST R 52726 § 8.12 | Tests for strength during transporting:  - visual checking of serviceability of equipment and package | Passed /  failed |
| 94 | GOST R 52726 § 8.15- 8.17 | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 95 | GOST R 52726 § 8.19 | Checking of electrical resistance of grounding circuit  - resistance | Compliant /  noncompliant  1 μΩ to 2000 Ω |
| 96 | GOST R 52726 § 8.20, 8.21 |  |  |  | Tests of auxiliary contacts to short-circuit current:  - rated (short-time) current of switching contacts  (0 to 200 А) | (0 to 200 А)  Passed /  failed |
| 97 | GOST R 55716 § 6.4 | High-voltage switching equipment | 27.12.1 | 8535 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 98 | GOST R 55716 § 6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 99 | GOST R 55716 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force | Passed /  failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N |
| 100 | IEC 62271–102 §6.4 | High-voltage AC current disconnectors and earthing switches | 27.12.1 | 8535 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 101 | IEC 62271–102 §6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |

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| 102 | IEC 62271–102 §6.6 |  |  |  | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - force  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  1 to 10 000 N  0 to 30 min |
| 104 | IEC 62271–102 §6.102 | Tests for mechanical capability and reliability of mechanical capability:  - control of mechanical, electrical and time characteristics  - control correct operation of device mechanisms and blockings  - forces  - control of insulation  - control of electrical resistance | (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 1000 Ω) |
| 105 | IEC 62271–102 §6.101; 6.106, Annex В; §6.107, Annex С; §6.108, Annex F | Tests for switching capability:  - amplitude voltage  (0 to 308 kV)  - RMS voltage  (0 to 220 kV)  - RMS value of short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 106 | GOST R 52725 Section 9.8 | Non-linear surge arresters | 27.12.10.130 | 8535 400000 | Pressure-releif tests | 0,1 to 40 kA  0,1 to 2 s  compliant/  noncompliant |
| 107 | GOST 16357 §6.2.13 | Surge arresters with spark gaps | 27.12.10.130 | 8535 400000 | Pressure-releif tests | 0,1 to 40 kA  0,1 to 2 s  compliant/  noncompliant |
| 108 | GOST 7746 § 9.1 | Current transformers | 27.11.4 | 8504 310000  8504 320000  8504 330000 | Checking of external view and checking for compliance to drawings, including for tests for safety requirements:  - geometrical dimensions  - mass  - condition of protective surfaces  - condition of surface of external insulating parts  - correctness of filling of nameplate  - correctness of marking and branding  - completeness  - checking of operating forces  - electrical resistance of grounding conductor | compliant/  noncompliant  1 mm to 5 000 mm  1 to 10 000 kg  1 to 10 000 N  1 μΩ to 2000 Ω |
| 109 | GOST 7746 § 9.2.2 | Checking of creepage distance | Passed / failed  1 to 5 000 mm |
| 110 | GOST 7746 § 9.2.3 | Test of inter-turn insulation | Passed / failed  0,5 to 3 kV |
| 111 | GOST 7746 § 9.2.4 | Tests of electrical strength of insulation of secondary coils to 1 min power-frequency voltage, including for tests for safety requirements: | Passed / failed  0,5 to 5 kV |
| 112 | GOST 7746 § 9.2.6 | Test of inter-turn insulation | Passed / failed |
| 113 | GOST 7746 § 9.3 | Measurement of insulation resistance of coils | 1 кΩ to 70 GΩ  Compliant/noncompliant |
| 114 | GOST 7746 § 9.6 | Checking of limit multiplicity (definition of full uncertainty) of secondary coils for protection:  - current  - full uncertainty | Compliant/  noncompliant  0,1 to 120 kA  1 to 100 % |
| Checking of safety factor of devices of secondary coils for measurement:  - current  - full uncertainty | Compliant/  noncompliant  0,1 to 120 kA  1 to 100 % |
| 115 | GOST 7746 § 9.8 | Definition of magnetizing current of  secondary coils | - 0,5 to 5 kV  - 1 to 100 А  Compliant/  noncompliant |
| 116 | GOST 7746 § 9.9 | Temperature rise tests with rated current:  - current  - measurement of resistance  - temperature rise | Passed / failed  10 to 20000 А  1 to 2000 Ω  0 to 3000 С |
| 117 | GOST 7746 § 9.10 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed /  failed  0,1 to 320 kA  0,1 to 120 kA |
| 118 | GOST 7746 § 9.11 | Measurement of resistance of secondary coils to DC current | Passed / failed  1 μΩ to 2000 Ω |
| 119 | GOST 7746 § 9.17 | Test of gas-filled transformers for internal arcing test | 0,1 to 40 kA  0,1 to 0,5 s |
| 120 | GOST 1983 §9.1 | Voltage  transformers | 27.11.4 | 8504 313100  8504 323000  8504 330000  8504 340000 | Checking for compliance to requirements assembling drawing, including for tests for safety requirements:  - geometrical dimensions  - mass  - condition of protective surfaces  - condition of surface of external insulating parts  - correctness of filling of nameplate, correctness of marking and branding, completeness, checking condition of grounding | Compliance /  не compliance  1 to 5000 mm  1 to 10 000 kg  compliant/  noncompliant  compliant/  noncompliant |
| 121 | GOST 1983 §§ 9.3 | Measurement of Insulation resistance of coils | Passed / failed  1 кΩ to 70 GΩ |
| 122 | GOST 1983 § 9.5 | Measurement of no-load current | 1 to 100 А |
| 123 | GOST 1983 § 9.9 | Temperature rise tests with rated current:  - voltages to 100 kV  - temperature rise  - measurement of resistance | Passed / failed  1 to 100 kV  1 to 3000 С  1 μΩ to 2000 Ω |
| 124 | GOST 1983 § 9.10, 9.11 | Test for withstand to short-circuit current:  - voltages to 100 kV  - temperature rise | Passed / failed  1 to 100 kV  1 to 3000 С |
| 125 | GOST 1983 §9.19 | Checking of creepage distance | Compliant/  noncompliant  1 to 5 000 mm |
| 126 | GOST 1983 §9.20 | Measurement of resistance of coils to DC current | Compliant/  noncompliant  1 μΩ to 2000 Ω |
| 127 | GOST 1983 § 9.21 | Test of gas-filled transformers for internal arcing test | 0,1 to 40 kA  0,1 to 0,5 s  compliant/  noncompliant |
| 128 | GOST 1282 § 5.5, 5.6, 5.9 | Power capacitors and capacitive installations,  for increasing of power factor | 27.90.51;  27.90.52 | 8532 | Test of electrical strength of insulation power-frequency  Not above 104 kV | Passed / failed |
| 129 | GOST 12.2.007.5 | 27.90.51;  27.90.52 | 8532 | Checking of external view of construction:  - presence of grounding bolts;  - external view  - checking of Insulation resistance.  Above 250 V | compliant/  noncompliant |

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| 130 | GOST 14694 section 3 | Switchgears type of KRU, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of electrical resistance | Passed/ failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 2000 Ω |
| 131 | GOST 14694 section 4 | Switchgears type of KRU, GIS, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Tests for mechanical strength and withstand, electromechanical tests, including during safety checking:  - checking of installations of accessories equipment and way of their bracing  - measurement of travel value and alignment of detachable contacts of main and auxiliary circuits  - checking of operating mechanismes of cubicle and withdrawable element  - checking of switching equipment of main circuit  - determination of characteristics of switching equipment and motors  - test of mechanical strength of elements of construction  - test of devices, equipment and schemes of auxiliary circuits  - test of blockings  - test of fixing devices  - test of earthing devices  - electrical Insulation resistance of main and auxiliary circuits | Compliant /  noncompliant  (0 to 300 mm);  Compliant /  noncompliant  Passed/ failed  Compliant /  noncompliant  (0 to 30 min)  Compliant /  noncompliant  (0 to 10000 N)  Passed/ failed  Compliant / noncompliant  Passed/ failed  Passed/ failed  Compliant /  noncompliant  (0 to 50000 МΩ) |
| 132 | GOST 14694 §6.3 | Degree of protection for access to dangerous parts, including during safety checking | (0Х to 4X)  Compliant /  noncompliant |

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| 133 | GOST 14694 section 7 | Switchgears type of KRU, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control mechanical and of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  (0 to 30 min);  Compliant /  noncompliant |
| 134 | GOST 14694 section 8 | Switchgears type of KRU, GIS, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Tests for strength during transporting:  - mass  - checking of construction and operating mechanismes  - checking of completeness  - checking of package | Passed /  failed  (0 to 10000 kg)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 135 | GOST 14694 section 9 | Switchgears type of KRU, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 136 | GOST 14694 section 10 | Switchgears type of KRU, GIS, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Control of assembly, tests for mutual replacement of one-type withdrawable elements and external view, including during safety checking:  - external examination and compliance to assembling drawings;  - checking of operating mechanismes of cubicle and withdrawable element  - test of blockings  - forces for handling of moving mechanism  - checking of electrical strength of insulation of main circuits to short-time AC voltage | (0 to 5000 mm)  Compliant /  noncompliant  Compliant /  noncompliant  Passed / failed  (0 to 10000 N)  Compliant /  noncompliant  Passed / failed |
| 137 | GOST 14694 section 12 | Switchgears type of KRU, GIS, KSO, KTP for voltage 3 to 35 kV | 27.11.4  27.12.10 | 8537 | Tests for localization capability:  - highest service voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 138 | GOST 14694 section 13 | Switchgears type of KRU, GIS, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Tests for switching capability during no-load current of transformer for own needs:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 139 | GOST 14693 § 5.4 | Switchgears type of KRU, GIS, KSO for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | During test of electrical strength of insulation of auxiliary circuits, including during safety checking | (0 to 5 kV)  Passed/ failed |
| 140 | GOST R 55190 § 5.2, 5.3.2-5.3.4, 5.10, 5.12, 5.21-5.23 | Switchgears type of KRU, GIS for voltage 3 to 35 kV | 27.12.10.190 | 8537 200000 | Checking for compliance of construction and assembling drawing, including for tests for safety requirements  - presence of grounding  - geometrical dimensions, mounting and connecting  - correctness of filling of nameplate  и correctness of marking  - external view  - mass | Compliant /  noncompliant  (0 to 5000 mm)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 kg)  Compliant /  noncompliant |
| 141 | GOST R 55190 § 5.11 | Checking blockings devices, including for tests for safety requirements | Compliant /  noncompliant |
| 142 | GOST R 55190 § 6.3 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 143 | GOST R 55190 § 6.4 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 2000 Ω |
| 144 | GOST R 55190 § 6.5 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - own times  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 to 100 ms  0 to 30 min |
| 145 | GOST R 55190 § 6.6 | Degree of protection for access to dangerous parts, including during safety checking. | (0Х to 4X)  Compliant /  noncompliant |
| 146 | GOST R 55190 § 6.11 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |

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| 147 | GOST R 55190 § 6.12 |  |  |  | Mechanical tests (electromechanical tests), including during safety checking:  - checking of operating mechanismes of cubicle and withdrawable element  - checking of switching equipment of main circuit  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 148 | GOST R 55190 § 6.17,  Annex А | Tests for exposure of electric arc  (localization capability):  -highest service voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 149 | IEC 62271–200 § 6.4 | AC current metal-enclosed switchgears for rated voltage 1 to 52 kV | 27.12.10.190 | 8537 200000 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 150 | IEC 62271–200 § 6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 151 | IEC 62271–200 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control mechanical and of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  (0 to 30 min);  Compliant /  noncompliant |
| 152 | IEC 62271–200 § 6.101 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 153 | IEC 62271–200 § 6.102 | Mechanical tests (electromechanical tests):  - checking of operating of cubicle mechanismes and withdrawable element  - checking of switching of main circuit equipment  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 154 | IEC 62271–200 § 6.106,  Annex А | Tests for exposure of electric arc  (localization capability):  - highest service voltage  (0 to 40,5 kV)  - short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 155 | IEC 62271–201 § 6.4 | AC current switchgears with hard insulation for rated voltage 1 to 52 kV | 27.12.10.190 | 8537 200000 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 156 | IEC 62271–201§ 6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 157 | IEC 62271–201 § 6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control mechanical and of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  (0 to 30 min);  Compliant /  noncompliant |

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| 158 | IEC 62271–201 § 6.101 |  |  |  | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 159 | IEC 62271–201 § 6.102 | Mechanical tests (electromechanical tests):  - checking of operating mechanismes cubicle and withdrawable element  - checking of switching of main circuit equipment  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 160 | IEC 62271–201 § 6.105,  Annex АА | Tests for exposure of electric arc  (localization capability):  -highest service voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 161 | GOST R 54828 §5.1-5.3, 5.9-5.11, 5.12.1, 6.1.2 | Metal-enclosed switchgears with SF6 insulation (GIS) for rated voltages 110 kV and higher | 27.12.10.190 | 8537 200000 | Checking for compliance of construction and assembling drawing, including for tests for safety requirements:  - presence of grounding  - geometrical dimensions, mounting and connecting  - correctness of filling of nameplate  и correctness of marking  - external view  - mass | Compliant /  noncompliant  (0 to 5000 mm)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  (0 to 10000 kg)  Compliant /  noncompliant |
| 162 | GOST R 54828 §6.4 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 163 | GOST R 54828 §6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - own times | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 to 100 ms |
| 164 | GOST R 54828 §6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  0 to 30 min |
| 165 | GOST R 54828 §6.12 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 166 | GOST R 54828 §6.13.1 | Mechanical tests (electromechanical tests), including during safety checking:  - checking of operating mechanismes cubicle and withdrawable element  - checking of switching of main circuit equipment  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |

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| 167 | GOST R 54828 §6.16, Annex G |  |  |  | Tests for exposure of electric arc  (localization capability):  - highest service voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 50 kA)  (0 to 135 kA)  (0 to 30 min) |
| 168 | IEC 62271–203 §6.4 | Metal-enclosed switchgears with SF6 insulation (GIS) for rated voltages above 52 kV | 27.12.10.190 | 8537 200000 | Measurement of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 169 | IEC 62271–203 §6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 170 | IEC 62271–203 §6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  0 to 30 min |
| 171 | IEC 62271–203 §6.101 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control of mechanical, electrical and time characteristics | Compliant /  noncompliant  (0 to 308 kV)  (0 to 220 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 600 V);  (0 to 300 А);  (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant |
| 172 | IEC 62271–203 §6.102.2 | Mechanical tests (electromechanical tests):  - checking of operating mechanismes cubicle and withdrawable element  - checking of switching of main circuit equipment  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |

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| 173 | IEC 62271–203 §6.105,  Annex В |  |  |  | Tests for exposure of electric arc  (localization capability):  - highest service voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 40,5 kV)  (0 to 50 kA)  (0 to 135 kA)  (0 to 30 min) |
| 174 | IEC 62271–205 §6.4 | Compact switchgears for calculated voltage above 52 kV | 27.12.10.190 | 8537 200000 | Measurement of electrical  resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 175 | IEC 62271–205 §6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 176 | IEC 62271–205 §6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - control of time characteristics | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  0 to 30 min |
| 177 | IEC 62271–205 §6.101.1-6.101.2 | Mechanical tests (electromechanical tests):  - checking of operating mechanismes cubicle and withdrawable element  - checking of switching of main circuit equipment  - test of blockings | Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 178 | GOST 2213 §7.1 | AC current fuses for voltage 3 kV and higher | 27.12.10.140 | 8535 100000 | Tests for compliance requirements to of construction and requirements assembling drawing, completeness, including during safety checking:  - geometrical, mounting and connecting dimensions  - mass  - condition of protective surfaces  - condition of surface of external insulating parts  - correctness of filling of nameplate  - correctness of marking and branding    - presence trigger indicator and (or) striking devicesа and (or) devicesа for remote signalling, блокировки and управления | (0 to 5000 mm)  Compliant /  noncompliant  (0 to 10000 kg)  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant  Compliant /  noncompliant |
| 179 | GOST 2213 §7.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - time | Passed/  failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 ms to 30 min |
| 180 | GOST 2213 §7.6-1-7.6.4 | Tests for mechanical capability and for mechanical wearing tests, including during safety checking:  - control mechanical characteristics, correct operation of device mechanisms and blockings  - checking of forces | (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  noncompliant |
| 181 | GOST 2213 §7.7 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - time | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 ms to 30 min |

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| 182 | GOST 2213 §7.8-7.11 |  |  |  | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 183 | IEC 62271–105 §6.4 | Combination switch-fuse for AC current | 27.12.10 | 8535 | Checking of electrical resistance | (0 to 1000 Ω)  Compliant /  noncompliant |
| 184 | IEC 62271–105 §6.5 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - time | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 ms to 30 min |
| 185 | IEC 62271–105 §6.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - times | Passed / failed  0,1 to 320 kA  0,1 to 120 kA  1 ms to 30 min |
| 186 | IEC 62271–105 §6.101 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 187 | IEC 60282-1 §6.5 | High voltage fuses.  Current-limiting fuses | 27.12.10.140 | 8535 100000 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - time | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 ms to 30 min |
| 188 | IEC 60282-1 §6.6-6.7 | Tests for switching capability:  - amplitude voltage  - RMS voltage  - short-circuit current  - peak value of short-circuit current  - control of time characteristics | Compliant/noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |

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| 189 | IEC 60282-1 § 6.8 |  |  |  | Control of mechanical characteristics, trigger indicator and (or) striking devices and (or) devices for remote signalling | (0 to 300 mm);  (0 to 30 min);  Compliant /  Noncompliant |
| 190 | IEC 60282-2 § 8.5 | High voltage fuses. Striking fuses | 27.12.10.140 | 8535 100000 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance  - time | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω  1 ms to 30 min |
| 191 | IEC 60282-2 § 8.6-8.7 | Tests for switching capability:  - amplitude voltage  (0 to 80 kV)  - RMS voltage  (0 to 40,5 kV)  - short-circuit current  (0 to 63 kA)  - peak value of short-circuit current  (0 to 170 kA)  - control of time characteristics | Compliant /  noncompliant  (0 to 80 kV)  (0 to 40,5 kV)  (0 to 63 kA)  (0 to 170 kA)  (0 to 30 min) |
| 192 | IEC 60282-2 § 8.8.2 | Tests for mechanical capability and for mechanical wearing tests:  - control mechanical characteristics, correct operation of device mechanisms and blockings  - checking of forces | (0 to 300 mm);  (0 to 30 min);  Compliant /  noncompliant  (0 to 10000 N)  Compliant /  Noncompliant |
| 193 | GOST 20493 § 8.1, 8.2 | Voltage Indicators | 27.12.10.190 | 8535 90 | Visual control, checking of completeness, of marking. Checking for compliance to working drawings.  - checking of serviceability  - checking of completeness  - checking of package  - checking of marking  - checking of traces of corrosion  - condition of insulating surfaces  - checking of documentation | Compliant/  noncompliant |
| 194 | GOST 20493 § 8.9.2, 8.9.3, 8.10.4, | Checking of value of indication voltage. Checking of voltage indicator for absence of indication from influence of adjacent circuits with same voltage | Compliant/  noncompliant |
| 195 | GOST 20493 § 8.9.4, 8.9.2 | Checking of value of current, flowing through voltage indicator during highest value of service voltage.  Checking of serviceability of scheme | Compliant/  noncompliant |
| 196 | GOST 20493 § 8.10.8, 8.7 | Tests for bending. Mechanical tests. | Passed / failed  0 to 10% |
| 197 | GOST 20494 §§8.1-8.2 | Insulating operating rods and portable groundings rods | 27.12.10.190 | 8535 90 | Visual control, checking of completeness, of marking. Checking for compliance to working drawings.  - checking of serviceability  - checking of completeness  - checking of package  - checking of marking  - checking of traces of corrosion  - condition of insulating surfaces  - checking of documentation | Compliant/  noncompliant |
| 198 | GOST 20494 § 8.5.2 | Tests for bending. Mechanical tests. | Passed / failed  0 to 10% |
| 199 | GOST R 51853 §9.1 | Portable grounding for electroinstallations | 27.12.10.190 | 8535 90 | Visual control, checking of completeness, of marking. Checking for compliance to working drawings.  - checking of serviceability  - checking of completeness  - checking of package  - checking of marking  - checking of traces of corrosion  - condition of insulating surfaces  - checking of documentation | Compliant/  noncompliant |

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| 200 | GOST R 51853 §§9.4, 9.6 |  |  |  | Checking of conductor section. | Passed / failed |
| 201 | GOST R 51853 §§9.5 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - measurement of resistance | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 202 | GOST R 51853 §9.3 | Tests for bending | Passed / failed  0 to 20% |
| 203 | GOST 8008 sectionы 7; 8 | Devices for voltage control under load of power transformers | 27.12.10.190 | 8504 900000 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0 С  1 μΩ to 2000 Ω |
| 204 | GOST R 55194 § 7.5 | AC current Electrical equipment and Electrical installations for voltage 1 to 750 kV | 27.12.1  27.12.2  27.12.3  27.12.4 | 8504  8535  8536  8537  8544  8546 | Tests of electrical strength of insulation AC voltage of control circuits, auxiliary circuits  (0 to 5 kV) | Passed / failed |
| 205 | STO 56947007-29.060.10.117-2012 §6 | Rigid bus system (High-voltage busducts) | 27.12.10.190 | 8535 90 0000 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 2000 Ω |
| 206 | STO 56947007-29.060.10.117-2012 §7,8 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - measurement of resistance | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 207 | IEC 60353 §19.1 | High-frequency  line traps | 27.12.10.190 | 8535 900000 | Temperature rise tests with rated current:  - current  - temperature rise  - resistance | Passed/ failed  10 to 20 000 А  1 to 300 0С  1 μΩ to 2000 Ω |
| 208 | IEC 60353 § 19.4 | Tests for withstand during short-circuits  0,1 to 12 kV | 0,1 to 40 kA  0,2 to 0,5 mH  0,1 to 2 s  compliant/  noncompliant |

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| 209 | CТО 96502166-123-2018 | Resistors betelen, resistor installations | 27.12.10.190 | 8533 | Measurement of resistance  to 1000 Ω | compliant/  noncompliant |
| 210 | CТО 96502166-123-2018 | Checking of rated maximum permissible voltages  to 85 kV | Passed/ failed |
| 211 | GOST 9098 §§6.2.1-6.2.3 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Visual control:  - geometrical dimensions  - mass | Passed / failed  1 to 1000 mm  1 to 1000 kg |
| 212 | GOST 9098 §6.2.5, 6.2.7, 6.7 | Control of forces of operating, joint (partition), marking. Trial Montage and checking of mutual replacement | Compliant/  noncompliant |
| 213 | GOST 9098 §§6.3.2-6.3.5; 6.3.14 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences CО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |
| 214 | GOST 9098 § 6.3.11; 6.3.13 | Control of return factor. Control of working of interruptors and motor:  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 V |
| 215 | GOST 9098 § 6.3.7 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 216 | GOST 9098 § 6.3.9; | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |
| 217 | GOST R 30011.1 §8.2 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Visual control:  - geometrical dimensions  - mass | Passed / failed  1 to 1000 mm  1 to 1000 kg |

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| 218 | GOST R 30011.1 §8.2.4 |  |  |  | Control of forces of operating, joint (partition), marking. Trial Montage and checking of mutual replacement | Compliant/  noncompliant |
| 219 | GOST 30011.1 §8.3.3.5, 8.3.3.7, 8.3.4 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences CО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |
| 220 | GOST 30011.1 §8.3.3.2.2, 8.3.3.3.6, 8.3.3.7.1 | Control of return factor. Control of working of interruptors and motor:  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 V |
| 221 | GOST 30011.1 §8.3.3 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 222 | GOST 30011.1 Section 8.3.3.4.1 | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |
| 223 | GOST R 50030.2 §8.2 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Visual control:  - geometrical dimensions  - mass | Passed / failed  1 to 1000 mm  1 to 1000 kg |
| 224 | GOST R 50030.2 §8.3.3 | Control of forces of operating, joint (partition), marking. Trial Montage and checking of mutual replacement | Compliant/  noncompliant |
| 225 | GOST R 50030.2 §8.3.2.6.1, 8.3.2.6.2, 8.3.5.3, 8.3.4.1, 8.3.8.3 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences CО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |

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| 226 | GOST R 50030.2 §8.3.3.18.3.3.7, 8.3.4.5, 8.3.5.1, 8.3.5.4, 8.3.6.1, 8.3.6.6, 8.3.7.4, 8.3.7.4, 8.3.7.8, 8.3.8.1, 8.3.8.7 |  |  |  | Control of return factor.  Control of working of interruptors and motor:  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 В |
| 227 | GOST R 50030.2 §8.3.2.5, 8.3.3.6, 8.3.4.4, 8.3.6.3, 8.3.7.2, 8.3.8.6 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 228 | GOST R 50030.2 §8.3.3.2 | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |
| 229 | GOST R 50030.6.2 § 9.2 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Visual control:  - geometrical dimensions  - mass | Passed / failed  1 to 1000 mm  1 to 1000 kg |
| 230 | GOST R 50030.6.2 § 9.3.1-9.3.4 | Control of forces of operating, joint (partition), marking. Trial Montage and Checking of mutual replacement | Compliant/  noncompliant |
| 231 | GOST R 50030.6.2 § 9.3.1-9.3.4 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences ВО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |
| 232 | GOST R 50030.6.2 § 9.3.1-9.3.4 | Control of return factor. Control of working of interruptors and motor  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 V |
| 233 | GOST R 50030.6.2 § 9.3.1-9.3.4 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 234 | GOST R 50030.6.2 § 9.3.1-9.3.4 | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |

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| 235 | GOST R 50030.6.1 § 9.2 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Visual control:  - geometrical dimensions  - mass | Passed / failed  1 to 1000 mm  1 to 1000 kg |
| 236 | GOST R 50030.6.1 § 9.3 | Control of forces operating, joint (partition), of marking.  Trial Montage and Checking of mutual replacement | Compliant/  noncompliant |
| 237 | GOST R 50030.6.1 § 9.3 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences CО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |
| 238 | GOST R 50030.6.1 § 9.3 | Control of return factor. Control of working of interruptors and motor:  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 V |
| 239 | GOST R 50030.6.1 § 9.3 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 240 | GOST R 50030.6.1 § 9.3 | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |
| 241 | GOST R 50345 § 9.3-9.4 | Low voltage switches for household and industrial purpose | 27.12.22 | 8536 | Control of marking. Checking of relialibility of screws, terminals | Compliant/  noncompliant |
| 242 | GOST R 50345 § 9.11 | Tests for mechanical wearing tests and switching capability:  - current  - number of sequences CО  - times  - resistance | Passed / failed  0,1 to 120 kA  1 to 10 000  1 ms to 60 min  1 μΩ to 2000 Ω |

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| 243 | GOST R 50345 § 9.10 |  |  |  | Control of return factor. Control of working of interruptors and motor:  - current  - temperature rise  - times  - voltage | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 ms to 60 min  1 to 400 V |
| 244 | GOST R 50345 § 9.8; 9.9 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 С |
| 245 | GOST R 50345 § 9.7 | Insulation resistance. | Passed / failed  1 кΩ to 70 GΩ |
| 246 | GOST 17242 §§7.2; 8.1 | Fuses voltage to 1000 V for household and industrial purpose | 27.12.21 | 8536 | Requirements to construction.  - geometrical dimensions  - mass  Checking of mutual replacement.  - Checking of marking  - torque moment | Passed / failed  1 to 1000 mm  0,1 to 1000 kg  2 to 30 N sm |
| 247 | GOST 17242 § 7.3.5; 7.3.6; 7.3.10; 7.3.1 | Requirements to temperature rise:  - current  - temperature rise  Over-load capability:  - current  - resistance  - checking of power losses,  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  10 to 20000 А  1 μΩ to 2000 Ω  1 to 2000 W  1 μΩ to 2000 Ω |
| 248 | GOST 17242 §§7.3.7-7.3.9 | Short-time withstand tests:  - thermal withstand current | Passed / failed  0,1 to 120 kA |
| 249 | GOST 17242 §7.2.4 | Requirements to mechanical capability and wearing:  - number of sequences  - current | Passed / failed  1 to 1000 sequences  1 to 35 000 А |
| 250 | GOST 17242 §7.1.2; 7.1.3; 7.3.9; 7.3.11 | Requirements to switching capability and wearing:  - number of sequences  - current | Passed / failed  1 to 1000 sequences  0,1 to 120 000 А |

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| 251 | GOST 2933 §2 | Automatical and non-automatical switches, disconnectors, contactors, magnetic starters, relays, controllers, fuses, resistors, rheostats and other apparatuses | 27.12.21  27.33.11  27.33.13.140  27.33.13.1505 | 8536 | Visual control  - completeness  - marking  - absence of pollutions  - absence of loosening the fastenings  - presence of protection against corrosion and quality of fulfil of protective surfaces  - correctness of fulfil of contact connections  - compliance with safety requirements  - control of electrical resistance  - checking of mass  - checking of geometrical dimensions  - checking of mutual replacement  - trial montage | Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant  0 to 100 kg  Compliant/  noncompliant  1 to 5 000 mm  Compliant/  noncompliant  Compliant/  noncompliant |
| 252 | GOST 2933 §5, 6 | Requirements to temperature rise:  - current  - temperature rise  Over-load capability:  - current  - resistance  - Checking of power losses,  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  10 to 20000 А  1 μΩ to 2000 Ω  1 to 2000 W  1 μΩ to 2000 Ω |
| 253 | GOST 2933 §8 | Requirements to switching capability:  - number of sequences  - current | Passed / failed  1 to 1000 sequences  10 to 35 000 А |
| 254 | GOST 2933 §10 | Test for mechanical and switching wearing tests:  - number of sequences  - resistance | Passed / failed  1 to 10 000 sequences  1 μΩ to 2000 Ω |
| 255 | GOST 2933 Section 9 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA |
| 256 | GOST 2327 §6.2 | Low-voltage thrust-in switches, disconnectors, switches-disconnectors, selectors and selectors-disconnectors  for voltage to 1000 V | 27.33.11 | 8536 | Requirements to of construction, Marking, Montage  - geometrical dimensions  - mass  - Checking of forces for handling  - Checking of contact pressure | Compliant/  noncompliant  1 to 1000 mm  0,1 to 1000 kg  0,1 to 1000 N  0,1 to 1000 N |
| 257 | GOST 2327 §6.3.1-6.3.2 | Control of apparatuses for compliance requirements to electrical parameters and duties:  - Power-frequency test voltage  - Insulation resistance. | Compliant/  noncompliant  0,1 to 5 kV  1 кΩ to 70 GΩ |
| 258 | GOST 2327 §6.3.7 | Requirements to temperature rise:  - current  - temperature rise  - resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 259 | GOST 2327 §6.3.3 | Switching capability and wearing tests:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  0,1 to 120 kA |
| 260 | GOST 2327 §6.3.6 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA; |

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| 261 | GOST 2327-89 §6.3.4 |  |  |  | Requirements to mechanical withstand and wearing:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  0 to 2000 Ω  0 to 20 000 А |
| 262 | GOST R 50030.3 §8.2, 8.3.3.7 | Automatic thrust-in low-voltage switches, disconnectors, switches-disconnectors, selectors and selectors-disconnectors  for voltage to 1000 V | 27.33.11 | 8536 | Requirements to construction, Marking, Montage  - geometrical dimensions  - mass  - Checking of forces for handling  - Checking of contact pressure | Compliant/  noncompliant  1 to 1000 mm  0,1 to 1000 kg  0,1 to 1000 N  0,1 to 1000 N |
| 263 | GOST R 50030.3 §8.1.3.3, 8.3.3.2, 8.3.3.4, 8.3.7.2, 8.3.6.3, 8.3.5.3, 8.3.4.2 | Control of apparatuses for compliance requirements to electrical parameters and duties:  - Power-frequency test voltage  - Insulation resistance. | Compliant/  noncompliant  0,1 to 5 kV  1 to 70 GΩ |
| 264 | GOST R 50030.3 Section 8.3.3.1, 8.3.3.6, 8.3.4.4, 8.3.5.5, 8.3.6.5, 8.3.7.1, 8.3.7.4 | Requirements to temperature rise:  - current  - temperature rise  - resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 265 | GOST R 50030.3 Section 8.3.3.3, 8.3.4.1, 8.3.5.2, 8.3.6.2.1 | Switching capability and wearing tests:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  0,1 to 120 kA |
| 266 | GOST R 50030.3 Section 8.3.5.1, 8.3.6.2.1 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA; |

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| 267 | GOST 19132 §§6.4; 6,5 | Typesetting contact terminals  Contact connections  - separable  - non-separable | 27.33.11 | 8535  8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking | Compliant/  noncompliant  1 to 1000 mm  0,1 to 100 kg |
| 268 | GOST 19132 §§6.10-6.13 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 269 | GOST 19132 §§6.11; 6.14 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA; |
| 270 | GOST R 51155 § 5.1.4-5.1.6 | Line fittings  Contact connections  - separable  - non-separable | 27.33.11 | 8535  8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking | Compliant/  noncompliant  1 to 1000 mm  0,1 to 100 kg |
| 271 | GOST R 51155 §5.3, 5.12 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 272 | GOST R 51155 §5.3.8 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA; |
| 273 | GOST 23981 §§5.1; 5.2; 5.7 | Cable tips  Contact connections  - separable  - non-separable | 27.33.11 | 8535  8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking | Compliant/  noncompliant  1 to 1000 mm  0,1 to 100 kg |
| 274 | GOST 23981 §5.6 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |

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| 275 | GOST 23981 §5.6 |  |  |  | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - electrical resistance | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000 С  1 μΩ to 2000 Ω |
| 276 | GOST 2744 § 2.14, 2.16 | Line fittings  Contact connections  - separable  - non-separable | 27.33.11 | 8535  8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking | Compliant/  noncompliant  1 to 1000 mm  0,1 to 100 kg |
| 277 | GOST 2744 §§2.20 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 278 | GOST 2744 §2.20 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - electrical resistance | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000 С  1 μΩ to 2000 Ω |
| 279 | GOST 17441-84 §§2.2.1-2.2.6; | Contact electrical connections | 27.33.11 | 8535  8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking | Compliant/  noncompliant  1 to 1000 mm  0,1 to 100 kg |
| 280 | GOST 17441 §§ 2.6; 2.7; 2.8; 2.10 | Temperature rise tests with rated current:  - current  - temperature rise  - electrical resistance | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 281 | GOST 17441 §§ 2.9 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - electrical resistance | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000 С  1 μΩ to 2000 Ω |

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| 282 | GOST 2491 §§6.1 | Electromagnetic low-voltage starters | 27.33.13.140  27.33.13.150 | 8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - checking of marking | Compliant/  noncompliant  1 mm to 1000 mm  0,1 to 100 kg |
| 283 | GOST 2491 §§6.1; 6.2 | Power-frequency test voltage | Passed / failed  - 0,5 to 5 kV |
| 284 | GOST 2491 §6.1 | Temperature rise tests with rated current, Checking of actuation and return, resistance and electrical strength of insulation at heated condition:  - current  - resistance  - electrical strength of insulation | Passed / failed  1 to 20 000 А  1 μΩ to 2000 Ω  1 кΩ to 70 GΩ |
| 285 | GOST 2491 §§6.1; 6.4; 6.8-6.10 | Switching capability and switching wearing tests  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  0,1 to 120 kA |
| 286 | GOST 2491 §6.11 | Requirements to mechanical wearing:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  10 to 20 000 А |
| 287 | GOST 11206 §6.1 | Electromagnetic low-voltage contactors | 27.33.13.140  27.33.13.150 | 8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - checking of marking | Compliant/  noncompliant  1 mm to 1000 mm  0,1 to 100 kg |
| 288 | GOST 11206 §§6.4; 6.5 | Power-frequency test voltage | Passed / failed  - 0,5 to 5 kV |
| 289 | GOST 11206 §6.9 | Temperature rise tests with rated current, Checking of actuation and return, resistance and electrical strength of insulation at heated condition:  - current  - resistance  - electrical strength of insulation | Passed / failed  1 to 20 000 А  1 μΩ to 2000 Ω  1 кΩ to 70 GΩ |

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| 290 | GOST 11206 §§6.3; 6.13-6.15 |  |  |  | Switching capability and switching wearing tests  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  0,1 to 120 kA |
| 291 | GOST 11206 §§6.17; 6.20 | Requirements to mechanical wearing:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  10 to 20 000 А |
| 292 | GOST 30011.4.1 § 8.2 | Electromechanical contactors and starters | 27.33.13.140  27.33.13.150 | 8536 | Power-frequency test voltage | Passed / failed  0,5 to 5 kV |
| 293 | GOST 30011.4.1 § 8.3 | Temperature rise tests with rated current, Checking of actuation and return, resistance and electrical strength of insulation at heated condition:  - current  - resistance  - electrical strength of insulation | Passed / failed  1 to 20 000 А  1 μΩ to 2000 Ω  1 кΩ to 70 GΩ |
| 294 | GOST 30011.4.1 § 8.3 | Switching capability and switching wearing tests  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  0,1 to 120 kA |
| 295 | GOST 30011.4.1 § 8.3 | Requirements to mechanical wearing:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  10 to 20 000 А |
| 296 | GOST 30011.4.1 § 8.3. | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - electrical resistance | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000 С  1 μΩ to 2000 Ω |

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| 297 | GOST R 50030.4.1 §9.2 | Electromechanical contactors and starters | 27.33.13.140  27.33.13.150 | 8536 | Checking of construction. Marking. Montage  - geometrical dimensions  - mass  - Checking of marking  - Air gaps | Compliant/  noncompliant  1 mm to 1000 mm  0,1 to 100 kg  1 mm to 1000 mm |
| 298 | GOST R 50030.4.1 §9.3. | Power-frequency test voltage | Passed / failed - 0,5 to 5 kV |
| 299 | GOST R 50030.4.1 §9.3. | Temperature rise tests with rated current, Checking of actuation and return, resistance and electrical strength of insulation at heated condition:  - current  - resistance  - electrical strength of insulation | Passed / failed  1 to 20 000 А  1 μΩ to 2000 Ω  1 кΩ to 70 GΩ |
| 300 | GOST R 50030.4.1 §9.3 | Requirements to mechanical wearing:  - number of sequences  - resistance  - current | Passed / failed  0 to 100 000 sequences  1 μΩ to 2000 Ω  10 to 20 000 А |
| 301 | GOST R 50030.4.1 §9.3 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - electrical resistance | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 to 3000 С  1 μΩ to 2000 Ω |
| 302 | GOST R 51321.1 §§8.2.2; 8.2.5; 8.3.4 | Low-voltage switchgears and controlgears (NKU) | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  0,5 to 5 kV  1 to 1000 mm  1 кΩ to 70GΩ |
| 303 | GOST R 51321.1 §8.2.1 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |

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| 304 | GOST R 51321.1 §8.2.3 |  |  |  | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA |
| 305 | GOST R 51321.1 §8.2.6 | Mechanical capability  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 306 | GOST IEC 61439-1 §§ 10.4; 10.9; 11.3; 11.9; Annex F, G, L | Low-voltage switchgears and controlgears (NKU) | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  0,5 to 5 kV  1 to 1000 mm  1 кΩ to 70GΩ |
| 307 | GOST IEC 61439-1 §§10.8; 10.10; Annex А, Е, Н, М, N, О | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |
| 308 | GOST IEC 61439-1 §§10.5.3; 10.11; Annex В, Р | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA |
| 309 | GOST IEC 61439-1 §10.13 | Mechanical capability  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 310 | GOST 32396 §§9.16; 9.30-9.32 | Input–distributive devices for living and public buildings (NKU) | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  0,5 to 5 kV  1 to 1000 mm  1 кΩ to 70GΩ |
| 311 | GOST 32396 §§9.28 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |
| 312 | GOST 32396 §§9.23; 9.29 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA |

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| 313 | GOST 32396 §§9.8; 9.9; 9.24 |  |  |  | Mechanical capability:  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 314 | GOST IEC 60439-3 §§8.2.1; 8.2.3.1 | Low-voltage switchgears and controlgears (NKU) | 27.12.31 | 8537 | Temperature rise tests with rated current:  - current  - Insulation resistance.  - temperature rise | Passed / failed  10 to 20 000 А  1 кΩ to 70 GΩ  1 to 3000 |
| 315 | GOST IEC 60439-3 §§8.2.3; 8.2.4; 8.2.4.1; 8.2.4.2; 8.3.3 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - resistance with protective bus | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000  1 μΩ to 2000 Ω |
| 316 | GOST IEC 60439-3 §§8.2.6; 8.2.15 | Mechanical capability:  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 317 | GOST R IEC 61439-2 §11.8 | Low-voltage switchgears and controlgears  Power switchgears | 27.12.31 | 8537 | Mechanical capability:  - number of operating sequences  - checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 318 | GOST 32395 §§10.15; 10.26-10.28 | Shields distributive, devices input-distributive for industrial, living and public buildings | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  - 0,5 to 5 kV  - 1 to 1000 mm  1 кΩ to 70 GΩ |
| 319 | GOST 32395 §10.25 | Temperature rise tests with rated current:  - current  - Insulation resistance.  - temperature rise | Passed / failed  1 to 20 000 А  1 кΩ to 70 GΩ  1 to 3000 |
| 320 | GOST 32395 §10.7 | Mechanical capability:  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |

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| 321 | GOST R 51628 §§10.15; 10.26-10.28 | Shields distributive for living buildings | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  - 0,5 to 5 kV  - 1 to 1000 mm  1 кΩ to 70 GΩ |
| 322 | GOST R 51628 §§10.25 | Temperature rise tests with rated current:  - current  - Insulation resistance.  - temperature rise | Passed / failed  1 to 20 000 А  1 кΩ to 70 GΩ  1 to 3000 |
| 323 | GOST R 51628 §§10.7; 10.8; 10.21 | Mechanical capability:  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 324 | GOST 32397 §§10.24; 10.25 | Shields distributive for industrial and public buildings | 27.12.31 | 8537 | Power-frequency test voltage  Air gaps and creepage distance  Insulation resistance. | Passed / failed  - 0,5 to 5 kV  - 1 to 1000 mm  1 кΩ to 70 GΩ |
| 325 | GOST 32397 § 10.23 | Temperature rise tests with rated current:  - current  - Insulation resistance.  - temperature rise | Passed / failed  1 to 20 000 А  1 кΩ to 70 GΩ  1 to 3000 |
| 326 | GOST 32397 §§10.12; 10.27 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise  - resistance with protective bus | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 to 3000 C  1 μΩ to 2000 Ω |
| 327 | GOST 32397 §10.7 |  | Mechanical capability:  - number of operating sequences  - Checking of operating characteristics | Passed / failed  1 to 50 sequences |
| 328 | GOST 6815 §§6.1; 6.1а; 6.15; 6.16 | Busducts magistral and distributive for AC voltage to 1000 V | - | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass | Compliant/noncompliant  1 to 5000 mm  1 to 10 000 kg |
| 329 | GOST 6815 §§6.6; 6.14 | Power-frequency test voltage  Insulation resistance. | Passed / failed  - 0,5 to 5 kV  1 кΩ to 70 GΩ |

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| 330 | GOST 6815 §§6.3; 6.10 |  |  |  | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  1 to 20 000 А  1 to 3000 |
| 331 | GOST 6815 §6.12 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - resistance of safety conductor | Passed / failed  0,5 to 320 kA;  0,5 to 120 kA;  1 μΩ to 2000 Ω |
| 332 | GOST 6815 §6.2, 6.2а | Mechanical capability:  - number of sequences  - load | Passed / failed  1 to 50 sequences  1 to 10 000 kg |
| 333 | GOST 24752 §§5.1; 5.12; 5.14 | Busducts trolley for voltage to 1000 V | - | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - resistance of safety conductor | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 μΩ to 2000 Ω |
| 334 | GOST 24752 §§5.7; 5.12 | Power-frequency test voltage  Insulation resistance.  - resistance of safety conductor | Passed / failed  - 0,5 to 5 kV  1 кΩ to 70GΩ  1 μΩ to 2000 Ω |
| 335 | GOST 24752 §§5.4; 5.6 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |
| 336 | GOST 24752 §5.5 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - resistance of safety conductor | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 337 | GOST 26346 §§6.1; 6.18 | Busducts lighting for AC voltage to 660 V | - | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - resistance of safety conductor | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 μΩ to 2000 Ω |

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| 338 | GOST 26346 §6.5 |  |  |  | Power-frequency test voltage  Insulation resistance.  - resistance of safety conductor | Passed / failed  - 0,5 to 5 kV  1 кΩ to 70GΩ  1 μΩ to 2000 Ω |
| 339 | GOST 26346 §§6.3; 6.13 | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |
| 340 | GOST 26346 §6.4 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - resistance of safety conductor | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 341 | GOST R 51321.2 §§ 7.1.2.3.4; 7.1.2.3.5 | Busducts  Low-voltage switchgears and controlgears | - | 8544 | Power-frequency test voltage  Insulation resistance.  - resistance of safety conductor | Passed / failed  - 0,5 to 5 kV  1 кΩ to 70GΩ  1 μΩ to 2000 Ω |
| 342 | GOST R 51321.2 §§ 8.2.1; 8.2.11; 8.2.13; Annex J; N | Temperature rise tests with rated current:  - current  - temperature rise | Passed / failed  10 to 20 000 А  1 to 3000 |
| 343 | GOST R 51321.2 §§8.2.3; 8.2.13 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - resistance of safety conductor | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 344 | GOST R 51321.2 §8.2.10 | Test for mechanical strength | Passed / failed  - 1 to 10 000 kg |
| 345 | GOST 10693 §6.2 | Capacitive sealed bushings for rated voltage 110 kV and higher | 27.90.12.120 | 8546 900000 | Tests for compliance requirements assembling drawing, including during safety checking:  - geometrical, mounting and connecting dimensions  - absence of visible defects | (0 to 5000 mm)  Compliant /  noncompliant  Compliant /  noncompliant |

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| 346 | GOST 10693 §6.6 |  |  |  | Tests for withstand:  During short-circuit current:  - electrodynamic withstand current  - thermal withstand current  During for switching:  - amplitude voltage  - RMS voltage  - RMS value of short-circuit current  - peak value of short-circuit current  - control mechanical and of time characteristics | (0 to 320 kA)  Passed / failed  (0 to 120 kA)  Passed / failed  (0 to 308 kV)  Passed / failed  (0 to 220 kV)  Passed / failed  (0 to 63 kA)  Passed / failed  (0 to 170 kA)  Passed / failed  (0 to 30 min);  Compliant /  noncompliant |
| 347 | GOST 10693 §6.7 | Temperature rise tests with rated current:  - current  - temperature rise | Passed/ failed  10 to 20 000 А  1 to 300 0 С |
| 348 | GOST 10693 §6.8 | Checking of electrical resistance | 0 to 1000 Ω  Compliant /  noncompliant |
| 349 | GOST 10693 §6.9 | Measurement of Insulation resistance of measuring or special terminals | 1000 to 2500 В  0 to 50 000 МΩ  Compliant /  Noncompliant |
| 350 | GOST 10693 §6.13 | Test for mechanical wearing tests  to 50 000 sequences | Passed/ failed |
| 351 | GOST R 55187 §9.1 | Bushings insulated for rated voltage above 1000 V AC current | 27.90.12.120 | 8546 900000 | Tests for compliance requirements assembling drawing, including during safety checking:  - geometrical, mounting and connecting dimensions  - absence of visible defects | 0 to 5000 mm  Compliant /  noncompliant  Compliant /  noncompliant |
| 352 | GOST R 55187 §9.4 |  |  |  | Measurement of Insulation resistance of measuring or special terminals | 1000 to 2500 В  0 to 50 000 МΩ  Compliant /  noncompliant |
| 353 | GOST R 55187 §9.6 | Checking of electrical resistance | 0 to 1000 Ω  Compliant /  noncompliant |
| 354 | GOST R 55187 §9.14 | Measurement of creepage distance on surface of external insulation performs according to GOST 9920 | Compliant /  noncompliant |
| 355 | GOST R 55187 §9.17 | Temperature rise tests with rated current:  - current  - temperature rise | Passed/ failed  (0 to 20 kA):  (0 to 300 0 С) |
| 356 | GOST R 55187 §9.18 | Short-time withstand tests of bushings:  - electrodynamic withstand current  - thermal withstand current | Passed / failed  (0,1 to 320 kA)  (0,1 to 120 kA) |
| 357 | GOST R 52034 §7.5.1 | Insulators ceramic support for voltage above 1000 V | 23.43.10.110 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg |
| 358 | GOST R 52082 §§8.8.1; 8.8.4; 8.8.5; 8.9.2; 8.9.3 | Insulators polymer support for outdoor installations for voltage 6-220 kV | 23.43.10.110 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg |
| 359 | GOST R 52082 §8.4 | Test for дугоwithstand  - current | Passed / failed  1 to 50 kA |
| 360 | GOST 22229 § 1.15 | Ceramic bushing insulators for voltage above 1000 V | 23.43.10.110 | 8546 209900 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Passed / failed  10 to 20 000 А  1 to 300 0C  1 μΩ to 2000 Ω |

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| 361 | GOST 22229 §1.16 |  |  |  | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - resistance of safety conductor | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 μΩ to 2000 Ω |
| 362 | GOST 1232 § 8.5 | Line pin porcelain and glass insulators for voltage 1 to 35 kV | 23.43.10.110  23.19.25.000 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 363 | GOST 6490 §7.3.2 | Line suspended plate insulators | 23.43.10.110  23.19.25.000 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 364 | GOST 12670 §§6.16; 6.20 | Porcelain plate insulators | 23.43.10.110  23.19.25.000 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 365 | GOST 28856 §5.4 | Line suspended rod polymer insulators | 23.43.10.110  23.19.25.000 | 8546 209900 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 366 | GOST R 55189 §8.6.1-8.6.4 | Line suspended rod polymer insulators |  |  | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 367 | GOST 433 §§4.2.1; 4.6 | Power cables with rubber insulation | 27.32.13.110 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |

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| 368 | GOST R 53769 §§8.2.1;8.8; 8.8.1; 8.8.2 | Power cables with plastic insulation for rated voltage 0,66; 1 and 3 kV | 27.32.13.110 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 369 | GOST R 53769 §§8.3.2.1; 8.3.4 | Insulation resistance.  Power-frequency voltage test | Compliant/  noncompliant  1 кΩ to 70 GΩ  0,5 to 5 кΩ |
| 370 | GOST 31947 §§8.2.1; 8.2.2; 8.3.4; 8.8.1; 8.8.2 | Wires and cables for electrical installations for rated voltage to 450/750 V including | 27.32.13.110 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 371 | GOST 31947 §§8.3.1; 8.3.2; 8.3.4 | Insulation resistance.  Power-frequency voltage test | Compliant/  noncompliant  1 кΩ to 70 GΩ  0,5 to 5 кΩ |
| 372 | GOST 18410 §§4.2.1; 4.9 | Power cables with impregnated paper insulation | 27.32.13.110 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 373 | GOST 18410 §4.3.1 | Measurement of electrical resistance to DC current | Compliant/  noncompliant  1 μΩ to 2000 Ω |
| 374 | GOST 18410 §§4.3.2; 4.3.3 | Insulation resistance.  Power-frequency voltage test | Compliant/  noncompliant  1 кΩ to 70 GΩ  0,5 to 5 кΩ |
| 375 | GOST 16442 §§5.2.1; 5.6; 5.9 | Power cables with plastic insulation to 6 kV | 27.32 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |

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| 376 | GOST 16442 §§5.3.2; 5.3.3 |  |  |  | Insulation resistance.  Power-frequency voltage test | Compliant/  noncompliant  1 кΩ to 70 GΩ  0,5 to 5 кΩ |
| 377 | GOST 16442 §5.3.1, 5.3.2 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Passed / failed  1 to 20 000 А  1 to 3000  1 μΩ to 2000 Ω |
| 378 | GOST 16441 §5.3 | Oil-filled cables for AC voltage 110-500 kV | 27.32.13 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - mass  - creepage distance | Compliant/  noncompliant  1 to 5000 mm  1 to 10 000 kg  1 to 5000 mm |
| 379 | GOST 31996 §10.10 | Power cables with plastic insulation for rated voltage to 3 kV | 27.32.13 | 8544 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 to 300 |
| 380 | GOST R 55025 §8.3.1; | Power cables with plastic insulation for rated voltage 6 to 35 kV including | 27.32.14 | 8544 | Measurement of electrical resistance to DC current | Compliant/  noncompliant  1 μΩ to 2000 Ω |
| 381 | GOST R 53769 §8.3.1; | Power cables with plastic insulation for rated voltage 0,66; 1 and 3 kV | 27.32.14 | 8544 | Measurement of electrical resistance to DC current | Compliant/  noncompliant  1 μΩ to 2000 Ω |
| 382 | GOST R IEC 60840 §§ 8.5, 10.5,  Annex А | Power cables with extruded insulation and fittings to them for rated voltage above 30 kV up to 150 kV | 27.32.14 | 8544 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Passed / failed  1 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 383 | GOST R IEC 60840 Annex А | Short-time withstand tests:  - electrodynamic withstand current to 320 kA;  - thermal withstand current to 120 kA;  - temperature rise | Passed / failed  Passed / failed  1 to 3000 С |

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| 384 | GOST R IEC 62067 §10.5,  Annex А | Power cables with extruded insulation and fittings to them for rated voltage above 150 kV up to 500 kV | 27.32.14 | 8544 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 385 | GOST R IEC 62067 Annex А | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 to 3000 С |
| 386 | GOST 24334 §5.3.2 | Power cables for non-stationary laying | 27.32.13 | 8544 | Requirements to temperature rise:  - current  - temperature rise  Measurement of electrical resistance to DC current | Passed / failed  10 to 20 000 А  1 to 3000 С  1 μΩ to 2000 Ω |
| 387 | GOST 23981 §§5.1, 5.2 | Cable tips | 27.32.13 | 8544 | Checking of construction. Mass. Marking. Montage.  - geometrical dimensions  - Checking of marking | Compliant/  noncompliant  1 to 5000 mm |
| 388 | GOST 23981 §§5.6 | Temperature rise tests with rated current:  - current  - temperature rise  - measurement of resistance | Compliant/  noncompliant  10 to 20 000 А  1 to 3000 C  1 μΩ to 2000 Ω |
| 389 | STO 56947007-29.060.50.015-2008 §11.7 | Lightning protection cable with built-in optical cable,  lightning protection cable | 27.31.12.120 | 8544  8544 70 000 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 to to 3000 С |
| 390 | STO 56947007-29.060.50.015-2008 §11.8 | Withstand to DC component of lightning current | Passed / failed  1 to 300 Q |
| 391 | GOST R IEC 793-1 §34 method С1С | Optical fibers | 27.31.12.120 | 8544  8544 70 000 | Definition of damping factor | Compliant/  noncompliant  0 to 0,05 dB/dB |

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| 392 | GOST 13781.0 Section 6 | Couplings for power cables for voltage to 35 kV including | 27.90.33.110 | 8544 | Requirements to temperature rise  - temperature rise | Passed / failed  1 to 3000 С |
| 393 | GOST 13781.0 §6.11 | Short-time withstand tests:  - electrodynamic withstand current  - thermal withstand current  - temperature rise | Passed / failed  0,1 to 320 kA;  0,1 to 120 kA;  1 to to 3000 С |
| 394 | GOST R 52266 §7.6.1; 7.6.3, 7.6.2 | Optical cables | 27.31.12.120 | 8544 70 000 | Checking of construction and consructive dimensions.  Checking of geomethric dimensions  Checking of serviceability of ОF.  Checking of absence of breakes conductors and contacts between them. | Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant |
| 395 | GOST R 52266 §7.3. | Measurement of damping factor | Compliant/  noncompliant  0,05 dB/dB |
| 396 | GOST R 52266 §7.8.1; §7.8.3; §7.8.4 | Electrical resistance of protective hose.  Electrical Insulation resistance of current-carrying conductors.  Measurement of electrical resistance of conductors to DC current | Compliant/  noncompliant  1 μΩ to 2000 Ω |
| 397 | GOST R IEC 793-1 §18 | Optical fibers | 27.31.12.120 | 8544 70 000 | Checking of construction and consructive dimensions.  Checking of serviceability of ОF.  Checking absence of breakes of conductors and contacts between them. | Compliant/  noncompliant  Compliant/  noncompliant  Compliant/  noncompliant |

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| 398 | GOST R 12.4.234 §6.18 | Materials and  special clothing for protection against thermal risks of electric arc | 13.10  13.20  13.91  13.92  13.95  13.96  13.99  14.12  14.13  14.14  14.39 | 5208, 5209, 5210, 5211, 551513, 551522,  55162400, 5512, 5513, 5514, 5515, 5516  6201,  62011390,  62021390,  62032911,  62032210,  62032280,  62032310,  62042310,  621149, 621139 | Withstand to thermal exposure of electric arc | 1 to 100 cal/sm2  Passed / failed |
| 399 | GOST 3811 | Definition of surface density of materials (calculated) | - |

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