|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clause | Test Description | Test Condition | Equipment Used | Verdit |
| 7.14 | Marking Durability Test | 15s with water, 15s with petroleum | -- | P/F/NA |
| 22.11&22.34 | Push, Pull and Torque Test | As specified in standard | EC2092, EC2093, EC2162, EC2426 | P/F/NA |
| 8.1.1 | Protection Against Access to Live Parts | As specified in standard | EC2162, EC3826 | P/F/NA |
| 8.1.2 | Protection Against Access to Live Parts | As specified in standard | EC3091 | P/F/NA |
| 8.1.3 | Protection Against Access to Live Parts | As specified in standard | EC2017 | P/F/NA |
| 8.1.4 | Protection Against Access to Live Parts | As specified in standard | EC3175, EC5800 | P/F/NA |
| 8.1.5 | Protection Against Access to Live Parts | As specified in standard | EC2162, EC3826 | P/F/NA |
| 8.2 | Protection Against Access to Live Parts | As specified in standard | EC2162, EC3826 | P/F/NA |
| 10.1&10.2 | Power input/Current Deviation | Refer to table below for details | EC2065, EC5865, EC5936 | P/F/NA |
| 11.8 | Heating Test | Refer to below for details | EC2065, EC5865, EC5936, EC3102, EC4232 | P/F/NA |
| 13.2 & 13.3 | Leakage Current Test & Electric Strength Test | Refer to table below for details | EC3175, EC3074, EC2834, EC2065, EC5132 | P/F/NA |
| 14 | Transient Overvoltage | Refer to table below for details | -- | P/F/NA |
| 15.2 | IP Test | As specified in standard | -- | P/F/NA |
| 15.3 | Overflow Test | As specified in standard | -- | P/F/NA |
| 15.101 | Spillage Test | As specified in standard | EC2969, EC2834, EC2385 | P/F/NA |
| 16.2 & 16.3 | Leakage Current Test & Electric Strength Test | Refer to talbe 1-5 | EC2743, EC5800, EC5132, EC2834 | P/F/NA |
| 17 | Overload Protection Temperature Test | Refer to table below | EC5865, EC3102, EC5936 | P/F/NA |
| 19.2&19.3 | Abnormal Operation Restricted Heat Dissipation & Overload Test | As specified in standard | EC5936, EC5865, EC3102 | P/F/NA |
| 19.4 | Operation with any defect | As speficied in standard | EC5936, EC5865 | P/F/NA |
| 19.5 | Short-circuited the Sheath and N conductor | As specified in standard | -- | P/F/NA |
| 19.6 | Abnormal Operation-PTC | As specified in standard | EC5936, EC5865, EC3102 | P/F/NA |
| 19.7 | Locking Test for the Motor | Refer to table below | EC5132, EC3102, EC2834, EC5800, EC2743 | P/F/NA |
| 19.8 | Three phase motor | Refer to table below | EC5865, EC5936 | P/F/NA |
| 19.10 | Tests for Series Motors | As specified in standard | EC5865, EC5936 | P/F/NA |
| 19.11.2 | Fault Conditions of Electronic Circuit | Refer to table below | EC5865, EC5936 | P/F/NA |
| 19.11.4.8 | Voltage Drop Test | Refer to table below | EC5865, EC5936 | P/F/NA |
| 19.12 | Tests for Miniature Fuse-link | Refer to table below | EC5865, EC5936, EC5800 | P/F/NA |
| 19.101 | Restriction of Heat Transfer Medium Flow | As specified in standard | EC5865, EC5936, EC3102 | P/F/NA |
| 19.102 | Abnormal Temperature of indoor water | As specified in standard | EC5865, EC5936, EC3102 | P/F/NA |
| 19.103 | Abnormal Ambient Temperature | As specified in standard | EC5865, EC5936, EC3102, EC2605 | P/F/NA |
| 19.104 | Cover Test for Appliance with Supplementary Heaters | As specified in standard | EC5865, EC5936, EC3102 | P/F/NA |
| 20.1 | Stability Test | ( ) inclined | EC4261 | P/F/NA |
| 20.2 | Mechanical Hazard | As specified in standard | EC2162 | P/F/NA |
| 21.1 | Spring Hammer Test | As specified in standard | EC5553 | P/F/NA |
| Annex EE | Pressure Tests | Refer to table below | EC5768 | P/F/NA |
| 21.2 | Strength of Solid Insulation & Viberation Test | As specified in standard | -- | P/F/NA |
| 22.3 | Undue Strain Test on Socket-Outlet | As specified in standard | EC5076 | P/F/NA |
| 22.5 | Plug Discharge Test | Refer to table below | EC2567, EC3175, EC5132 | P/F/NA |
| 22.6 | Water Leakage Test | As specified in standard | EC2615 | P/F/NA |
| 22.12 | Pull Test | ( )N | EC2092 | P/F/NA |
| 22.16 | Cord Reel Abrasion Test | As specified in standard | EC2285, EC2384 | P/F/NA |
| 22.24 | Bare Heating Elements | As specified in standard | -- | P/F/NA |
| 22.32 | Ageing Test of Rubber & Test of Ceramic Material | As specified in standard | -- | P/F/NA |
| 22.42 | Protective Impedance | As specified in standard | -- | P/F/NA |
| 22.47 | Water Mains Pressure Test | ( )MPa, 5mins, No Leakage | EC2468, EC3667 | P/F/NA |
| 22.57 | UV-C Radiation | As specified in standard | -- | P/F/NA |
| Annex T | UV-C Radiation | Refer to table below | -- | P/F/NA |
| 22.104 | Water Pressure Test for Containers | ( )MPa, 5mins, No Leakage | EC5768 | P/F/NA |
| 22.108 | Vacuum Pressure Impulses for Storage Tanks | ( )MPa, 15mins, No Deformation | EC5768 | P/F/NA |
| 22.110 | Operation of Non-self-resetting thermal cut-outs | As specified in standard | -- | P/F/NA |
| 22.127-22.129 | Irradiance Limit Test | As specified in standard | EC5912, EC4255 | P/F/NA |
| 23.3 | Internal Wiring Flexing Test | ( ) times for the flexing conductors | EC2285 | P/F/NA |
| 23.5 | Insulation of Internal Wiring Test | 2000 V, 15 minutes | EC2834 | P/F/NA |
| 24.5 | Capacitor voltage | Rated voltage: Measured voltage: | EC6081, EC4937, EC5132 | P/F/NA |
| 23.101 | Radiation resistance of internal wiring | After conditioning in Annex OO, 2000V, 15 minutes applied | EC2834 | P/F/NA |
| 25.2 | Electric strength for multiple supply | 1250V, 60s | EC2834 | P/F/NA |
| 25.14 | Cord Flexing Test | As specified in standard | EC2667, EC2211 | P/F/NA |
| 25.15 | Power Cord Pull and Torque Test | Mass of appliance: ( ) kg Pull force: ( ) N Torque: ( ) Nm Movement distance: ( )mm | EC2092, EC3578, EC2843 | P/F/NA |
| 26.5 | Conductor Escape Test | As specified in standard | -- | P/F/NA |
| 27.5 | Ground Impedance Test | ( )Ohm | EC4291 | P/F/NA |
| 29 | Creepage Ditance and Clearance | As specified in standard | EC2584, EC2843 | P/F/NA |
| 30.1 | Ball Pressure Test | Refer to table below | EC3304, EC2132 | P/F/NA |
| 30.2.3 & 30.2.4 | Glow Wire Test & Needle Flame Test | Refer to table below | EC2764, EC2072 | P/F/NA |
| 31 | Salt Mist Test | As specified in standard | -- | P/F/NA |
| 32.101 | UV-C Irradiance Test | Measured UV-C spectral irradiance: ( )uW/cm2 | -- | P/F/NA |
| Annex N | Proof Tracking Test | Refer to table below | EC2071 | P/F/NA |
| Annex FF | Leakage Simulation Tests | Refer to table below | EC5382, EC6022, EC6023 | P/F/NA |

Test Item: Power input/current deviation(Clause 10.1&10.2)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Rated Power Input(W) | Measured Power Input(W) | Deviation | Calculated Deviatoin | Mode |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Test Item: Heating test(Clause 11.8)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Test frequency(Hz): |

|  |  |  |  |
| --- | --- | --- | --- |
| Item No. | Thermocouple location | Actual temperature(C) | Limitation(C) |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |
| 11 |  |  |  |
| 12 |  |  |  |
| 13 |  |  |  |
| 14 |  |  |  |
| 15 |  |  |  |
| 16 |  |  |  |
| 17 |  |  |  |
| 18 |  |  |  |
| 19 |  |  |  |
| 20 |  |  |  |
| 21 |  |  |  |
| 22 |  |  |  |
| 23 |  |  |  |
| 24 |  |  |  |

|  |
| --- |
| Record the Max. working pressure on both high/low side |

|  |  |
| --- | --- |
| Condenser side (MPa) |  |
| Evaporator side (MPa) |  |

Test Item: Measurement of winding temperaturer rise(Clause 11.8)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |
| --- | --- |
| Model: | Test condition(C): t1=  t2= |
| Test voltage(V): | Test frequency(Hz): |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Temperature rise of winding | R1(ohm) | R2(ohm) | dT(C) | Limitation(C) |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Test Item: Leakage current test & Electric strength under normal operation (Clause 13.2/13.3)

Test Method: As specified in standard

Test Result: Pass/Failed

Clause 13.2

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Test frequency(Hz): |

|  |  |  |
| --- | --- | --- |
| L/N - Earthing metal part |  | 0.75mA for portable appliance |
|  | ( )mA for stationary appliance |
| L/N - Enclosure (with metal foil or unground metal part |  | 0.35mA peak |

Clause 13.3

|  |  |  |
| --- | --- | --- |
| Test voltage applied between: | Test voltage(V): | Brokedown: |
| SELV isolated with basic insulation | 500 | Yes/No |
| Between live part and the earthing metal enclosure (basic insulation) | 1000 | Yes/No |
| Between basic insulation part and the non-metal enclosure (supplementary insulation) | 1750 | Yes/No |
| Between live part and non-metal enclosure or SELV (reinforce insulation) | 3000 | Yes/No |
| Note: 1: Metal foil having an area not exceeding 20 cm x 10 cm which is in contact with accessible surfaces of insulating materials. 2: Protective impedance and radio interference filters are disconnected before carrying out the tests. | | |

Test Item: Leakage current test & Electric strength after humidity (Clause 16.2/16.3)

Test Method: As specified in standard

Test Result: Pass/Failed

Clause 16.2

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Humidity(%RH): |

|  |  |  |
| --- | --- | --- |
| L/N - Earthing metal part |  | 0.75mA for portable appliance |
|  | ( )mA for stationary appliance |
| L/N - Enclosure (with metal foil or unground metal part |  | 0.25mA |

Clause 16.3

|  |  |  |
| --- | --- | --- |
| Test voltage applied between: | Test voltage(V): | Brokedown: |
| SELV isolated with basic insulation | 500 | Yes/No |
| Between live part and the earthing metal enclosure (basic insulation) | 1250 | Yes/No |
| Between basic insulation part and the non-metal enclosure (supplementary insulation) | 1750 | Yes/No |
| Between live part and non-metal enclosure or SELV (reinforce insulation) | 3000 | Yes/No |
| Note: 1: Metal foil having an area not exceeding 20 cm x 10 cm which is in contact with accessible surfaces of insulating materials. 2: Protective impedance and radio interference filters are disconnected before carrying out the tests. | | |

Test Item: Locking test for the motor (clause 19.7)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Test frequency(Hz): |

|  |  |  |  |
| --- | --- | --- | --- |
| Test duration: 15 days (360 h) or protection device permanently opens the circuit | | | |
| Item No. | Thermocouple location | Actual temperature(C) | Limitation(C) |
| 1 | Motor winding |  |  |
| 2 | Enclosure |  |  |
| Notes: Three days (72 h) after the beginning of the test, the motor shall withstand an electric strength test as specified in 16.3. At the end of the test, the leakage current test is applied (twice the rated voltage) between all windings and the enclosure, the value is \_\_\_\_\_mA, do not exceed 2mA. | | | |

Test Item: Restriction of Heat Transfer Medium Flow (clause 19.101)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Test frequency(Hz): |

|  |  |  |  |
| --- | --- | --- | --- |
| Item No. | Thermocouple location | Actual temperature(C) | Limitation(C) |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
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| 10 |  |  |  |
| 11 |  |  |  |
| 12 |  |  |  |
| 13 |  |  |  |
| 14 |  |  |  |
| 15 |  |  |  |
| 16 |  |  |  |
| 17 |  |  |  |
| 18 |  |  |  |
| 19 |  |  |  |
| 20 |  |  |  |
| 21 |  |  |  |
| 22 |  |  |  |
| 23 |  |  |  |
| 24 |  |  |  |
| Notes: -The heat transfer medium flow of the outdoor heat exchanger is restricted or shut off -The heat transfer medium flow, fluid or air, of the indoor heat exchanger, restricted or shut off -Appliances incorporating a motor common to both the indoor and outdoor heat exchangers are subjected to the above test the motor being disconnected | | | |

|  |
| --- |
| Record the Max. working pressure on both high/low side |

|  |  |
| --- | --- |
| Condenser side (MPa) |  |
| Evaporator side (MPa) |  |

Test Item: Abnormal Ambient Temperature (clause 19.103)

Test Method: As specified in standard

Test Result: Pass/Failed

|  |  |
| --- | --- |
| Model: | Test condition(C): |
| Test voltage(V): | Test frequency(Hz): |

|  |
| --- |
| 1. dry-bulb temperature is increased to a value 10 K above the maximum temperature specified by the manufacturer:\_\_\_\_\_C 2. dry-bulb temperature is reduced to a value 5 K below the maximum temperature specified by the manufacturer:\_\_\_\_\_C After testing, no hazard situation was occured. |