

Testing criteria for system of protection IP54 according to EN 60529: 2000

Test conditions for 1st characteristic number (5)

Degree of protection against solid foreign matter IP 5X (dust-protected) vacuum test with dust/air mixture

Testing time: 8 h
Testing dust: Talcum powder
Grain size distribution: $\leq 50\mu\text{m}$ - $\geq 75\mu\text{m}$

Test conditions for 2nd characteristic number (4)

Protection class test against water ingress IP X4 (protected against splashing water)

Testing device: Swivel pipe or spray nozzle
Water-volume-flow: 0,84 – 7,0 l/min. (depending on pipe radius)
Testing time 5 min.

Definition for 1st characteristic number (5)

Characteristic number	Schort description	Definition
5	Dust-protected	Ingress of dust is not completely prevented, but must not be allowed to enter in such quantities as to impair the satisfactory operation of the appliance or safety.

Definition of the 2nd characteristic number (4)

Characteristic number	Schort description	Definition
4	Protected against splash water	Water splashing against the housing from any direction must not have any harmful effects.