Doepke

Three-way safety

- DAFDD Make safety your priority with the comprehensive protection concept from Doepke – the expert for protection against electrical damage!
- ——— protection against fault currents
- ------ protection against short-circuits and overload
- ------ protection against arc faults





Safety³ = DAFDD

Our fire protection switch, the DAFDD (arc-fault detection device, AFDD), offers reliable protection against fault currents, short-circuits, overload and arc faults.

DAFDD ·

r	educes the risk of fire in fixed installations
i1	t unites three functions in a single unit: RCCB + MCB + AFD ust three narrow modular units
S	imple troubleshooting: signal indicates cause of tripping
(LED flashing code, indicator triggered by fault current
а	ind contact position)
lä	ast AFD fault code is saved, can be read out again
il	ntegrated overvoltage protection (> 270 V)
S	elf-monitoring of AFD unit
fr	ault current type A (pulsating current-sensitive
а	nd AC current-sensitive) and A KV (slow-blow)
i	ine protection: tripping characteristic B
(standard protection for lighting and socket circuits) or
t	ripping characteristic C (for high inrush or peak currents)
S	atisfies the standards DIN EN 61009-1 and DIN EN 62606



common rooms and bedrooms in nurseries, nursing homes and accessible housing as per DIN 18040-2 rooms and locations at risk of fire due to processed or stored materials (e.g. in the wood and paper industry), due to flammable building materials or fire-spreading structures (chimney effect) and for irreplaceable goods (e.g. in museums)

More than just fire protection: one device, three functions

Electric arcs and arc faults in serial and parallel

Electric arcs can occur for operational reasons when opening or closing mechanical contacts. They do not present any hazard.

Arc faults can be caused even by minor damage or insulation defects on conducting lines. If they go unnoticed, they can become a fire risk in the electrical installation. Parallel arc faults are detected by miniature circuit-breakers and residual current circuit-breakers, while serial arc faults can go unnoticed if no AFD unit is present.

If these dangerous arc faults keep occurring for days, months or even years, they exert thermal stresses on the surrounding material, which cause changes to it and, in the worst-case scenario, can lead to devastating fires.



The DAFDD — the advantages at a glance





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