



Arc fault detection device block AFDD, 1-40 A 230 V for CB and RCBO
1+N 2MW

Model	
product brand name	SENTRON
product designation	Arc-fault detection unit block
design of the product	for MCB 5SY, 5SL4 and RCBO 5SU1
General technical data	
number of poles	2
design of pole	1P+N
size of installation devices according to DIN 43880	1
touch protection against electrical shock according to EN 50274	finger and back-of-hand safe
mechanical service life (operating cycles) typical	10 000
switching function short-term delayed	No
overvoltage category	III
degree of pollution	2
type of voltage of the operating voltage	AC
Supply voltage	
supply voltage	
• at AC rated value	230 V
value range of the supply voltage frequency	50Hz
Protection class	
protection class IP	IP20, with connected protective device and conductors
Current	
tripping current	
• in the event of electrical arcs in parallel with the load minimum	50 A
• in the event of electrical arcs in parallel with the load maximum	500 A
• in the event of electrical arcs in series with the load minimum	2 A
• in the event of electrical arcs in series with the load maximum	40 A
operational current at AC rated value	40 A
Product details	
product feature	
• halogen-free	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
• maximum	16 mm ²

connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque with screw-type terminals	
• minimum	2 N·m
• maximum	2.5 N·m
position of power supply cord	Bottom

Mechanical Design

height	95 mm
width	54 mm
depth	68.5 mm
installation depth	70 mm
number of modular width units	1
number of modular width units of the mountable protective device	2
fastening method	DIN rail (REG)
mounting position	any
net weight	121 g

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
ambient temperature with relative humidity 95%	55 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

General Product Approval

Declaration of Conformity

[Confirmation](#)



Declaration of Conformity

Test Certificates

other



[Miscellaneous](#)

[Miscellaneous](#)

[Environmental Conformations](#)

[Miscellaneous](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SM6024-2>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SM6024-2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM6024-2

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





