

PRODUCT CATALOG

SMART SOLUTIONS
FOR RELIABLE PERFORMANCE



DIGITAL EARTH LEAKAGE RELAY WITH SMART HARMONICS FILTER & MODBUS

Advanced protection and monitoring solution for modern electrical systems. Designed to deliver accurate leakage detection, real-time analysis and communication in a compact and smart device.



LARGE LCD SCREEN

Clear and easy to read display for all parameters and status.



REAL-TIME MONITORING

Continuous monitoring of leakage, load and system status.



HARMONIC DISTORTION DETECTION

Measure total harmonic distortion (%THD) up to 5th harmonics



EVENT & FAULT MEMORY

Stores event and faults for every analysis and troubleshooting.



2 DRY CONTACT OUTPUT

Configurable alarm and trip outputs for external signaling



MODBUS RTU / RS485

Seamless integration with SCADA, PLC and building management systems.



MEASURE TRUE RMS

High accuracy True RMS measurement for all electrical parameters.



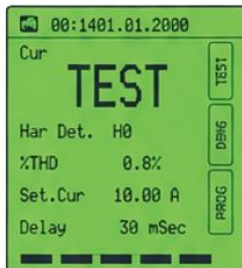
MEASURE UNTIL 5TH HARMONICS AND CAN FILTER THEM

Smart harmonics filter improves stability and reduces false tripping.

SCREEN PREVIEWS



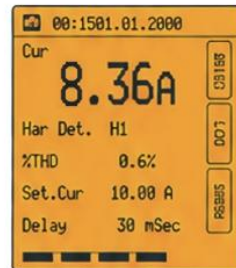
MAIN SCREEN



TEST MODE



HIGH LEAKAGE



LEAKAGE CURRENT



SETTINGS MENU



RELIABLE

Accurate protection you can trust



SMART

Intelligent algorithms for better performance



EASY TO USE

User-friendly interface and configuration



EASY TO USE

Communicate, monitor and control remotely

KAR1-D

Earth Leakage Relay

Residual Current Monitoring Relay
with Adjustable Time Delay



Adjustable Leakage Current
30mA – 30A



Adjustable Time Delay
0 – 10 Seconds



4-Step Leakage Level Indication
%25, %50, %75, %100



1 SPDT Relay Output
250V AC / 7A



Test & Reset Functions
Local & Remote



Works with External CBCT
(Type A)



Reliable
Protection



Easy
Configuration



High
Performance



Made in Turkey

www.hsgrup.com.tr

General Description

KAR1-D is an electronic residual current relay used in AC systems to monitor leakage current and trip the connected circuit breaker when the leakage current exceeds the set threshold.

It operates with an external CBCT and provides adjustable leakage current sensitivity and time delay.

Features

✓ **Monitoring**

Monitors earth leakage current in AC systems with external CBCT.

✓ **Time delay**

Adjustable time delay: 0 - 10 seconds

✓ **Trip indication**

Trip indication (TRIP)

✓ **Test / Reset**

Test and Reset functions

✓ **Relay output**

1 SPDT relay output (250V AC / 7A)

✓ **Leakage adjustment**

Adjustable leakage current: 30mA - 30A

✓ **Level indication**

7-segment display showing a 3-digit leakage current value.

✓ **Power indication**

Supply voltage indicator (PWR)

✓ **External input**

External TEST/RESET input

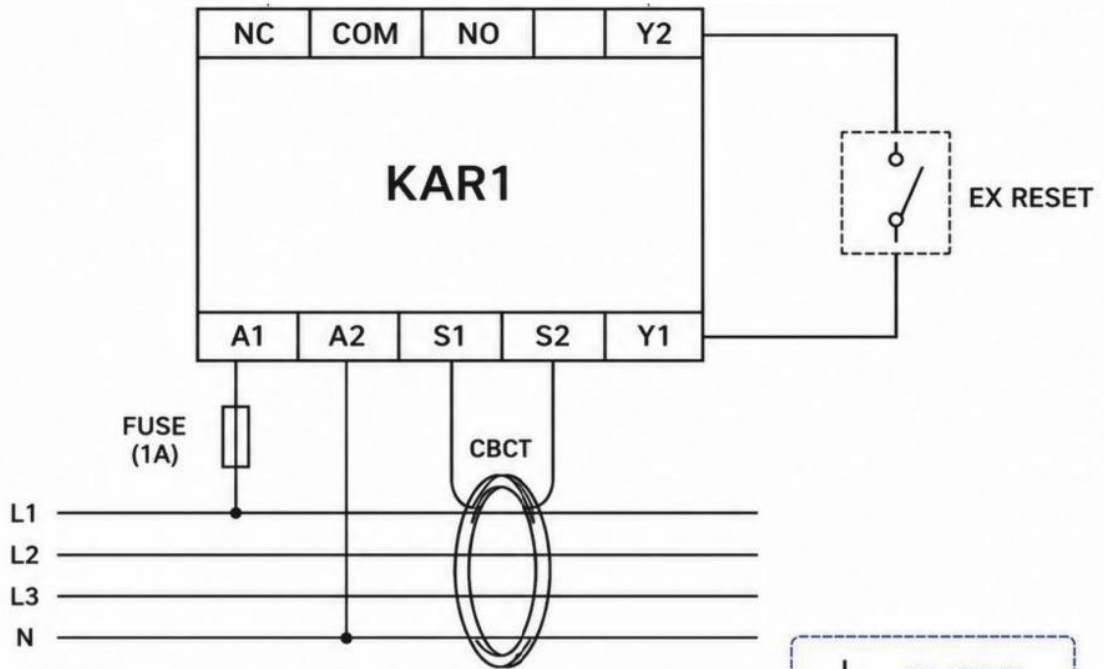
✓ **Mounting**

DIN rail mounting

Technical Data

Parameter Specification	Specification
Supply Voltage	220V AC +- %20
Frequency	50 HZ / 60HZ
Leakage Current (In)	30mA ~ 30A
Time Delay (t)	0S ~ 10S
Operating Power	<6VA
Response Time (max)	<50ms
Contact	7A 250VAC
Display	3-Digit 7-Segment Display
Current Accuracy	3%
Operation Characteristic	Type A
Toroid Connection Test	Continuous
Operation Temperature	-20 to +55C
Storage Temperature	-20 to +70C
Dielectric test voltage	2.5kV 50Hz 1 min
Connections	Max 2.5mm ²
Material Flame	UL94-V0
Insulation Protection for Housing	IP20
Standard	EN / IEC-60947-2
Trip Test	Manual
Reset	Manual or Remote
Electrical Life	30,000 operation (instant trip)
Relay output short-circuit protection (1kA as per IEC 60947-5-1)	4A gL HRC fuse is required.
Max resistance connection between toroidal CBCT & relay	3Ω
Max Length connection of remote reset button	15m

WIRING DIAGRAM



NOTES:

- CBCT (Core Balance Current Transformer) must be installed around all live conductors (L1, L2, L3, N).
- The relay output changes state when a fault is detected.
- Use external reset contact (EX RESET) to reset the device after trip.

EX RESET :



External
Normally Open
Reset Contact

TERMINAL DESCRIPTION

TERMINAL	DESCRIPTION	FUNCTION
A1	Supply L 220V AC	Phase (Line) supply input
A2	Supply N 220V AC	Neutral supply input
S1	CBCT S1	Connection to CBCT terminal S1
S2	CBCT S2	Connection to CBCT terminal S2
Y1	External Reset Y1	External reset input Y1
Y2	External Reset Y2	External reset input Y2
	(No Connection)	Reserved / Do not use
NO	Relay Output - Normally Open	Relay output - opens on trip
COM	Relay Output - Common	Common terminal for relay output
NC	Relay Output - Normally Close	Relay output - closes on trip

KAR1

Earth Leakage Relay

Residual Current Monitoring Relay
with Adjustable Time Delay



Adjustable Leakage Current
30mA – 30A



Adjustable Time Delay
0 – 10 Seconds



4-Step Leakage Level Indication
%25, %50, %75, %100



1 SPDT Relay Output
250V AC / 7A



Test & Reset Functions
Local & Remote



Works with External CBCT
(Type A)



Reliable
Protection



Easy
Configuration



High
Performance



Made in Turkey

www.hsgrup.com.tr

General Description

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It operates with an external CBCT and provides adjustable leakage current sensitivity and time delay.

Features

✓ **Monitoring**

Monitors earth leakage current in AC systems with external CBCT.

✓ **Time delay**

Adjustable time delay: 0 - 10 seconds

✓ **Trip indication**

Trip indication (TRIP)

✓ **Test / Reset**

Test and Reset functions

✓ **Relay output**

1 SPDT relay output (250V AC / 7A)

✓ **Leakage adjustment**

Adjustable leakage current: 30mA - 30A

✓ **Level indication**

4-step leakage level indication (%25, %50, %75, %100)

✓ **Power indication**

Supply voltage indicator (PWR)

✓ **External input**

External TEST/RESET input

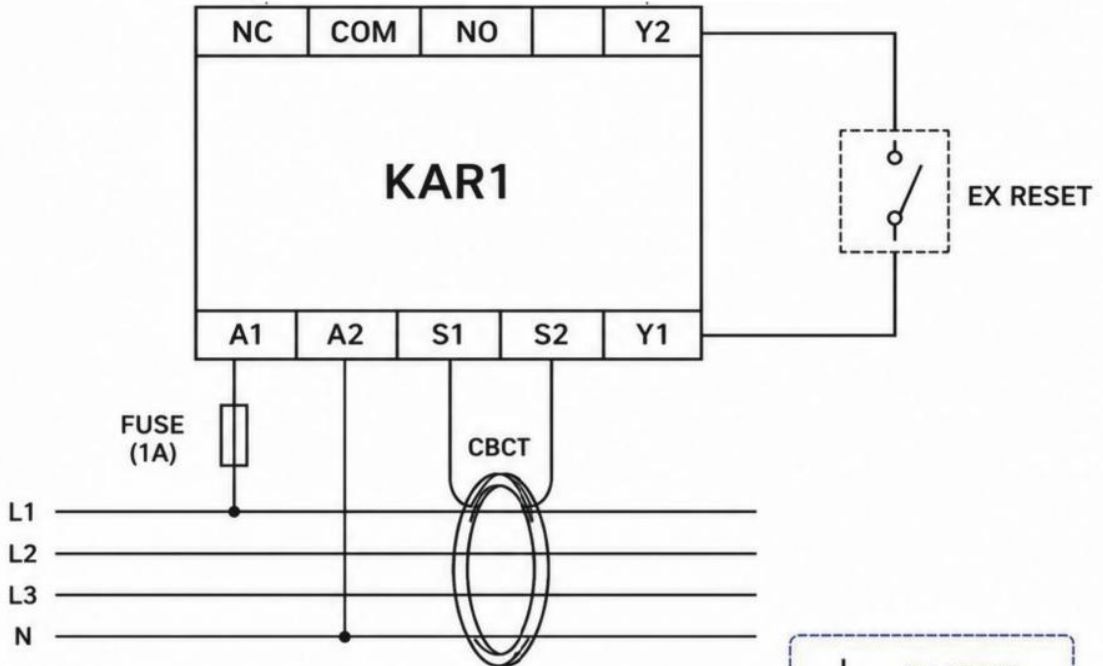
✓ **Mounting**

DIN rail mounting

Technical Data

Parameter Specification	Specification
Supply Voltage	220V AC +- %20
Frequency	50 HZ / 60HZ
Leakage Current (In)	30mA ~ 30A
Time Delay (t)	0S ~ 10S
Operating Power	<6VA
Response Time (max)	<50ms
Contact	7A 250VAC
Display	4x LEDs
Current Accuracy	3%
Operation Characteristic	Type A
Toroid Connection Test	Continous
Operation Temperature	-20 to +55C
Storage Temperature	-20 to +70C
Dielectric test voltage	2.5kV 50Hz 1 min
Connections	Max 2.5mm ²
Material Flame	UL94-V0
Insulation Protection for Housing	IP20
Standard	EN / IEC-60947-2
Trip Test	Manual
Reset	Manual or Remote
Electrical Life	30,000 operation (instant trip)
Relay output short-circuit protection (1kA as per IEC 60947-5-1)	4A gL HRC fuse is required.
Max resistance connection between toroidal CBCT & relay	3Ω
Max Length connection of remote reset button	15m

WIRING DIAGRAM



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- CBCT (Core Balance Current Transformer) must be installed around all live conductors (L1, L2, L3, N).
- The relay output changes state when a fault is detected.
- Use external reset contact (EX RESET) to reset the device after trip.

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Normally Open
Reset Contact

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A1	Supply L 220V AC	Phase (Line) supply input
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S1	CBCT S1	Connection to CBCT terminal S1
S2	CBCT S2	Connection to CBCT terminal S2
Y1	External Reset Y1	External reset input Y1
Y2	External Reset Y2	External reset input Y2
	(No Connection)	Reserved / Do not use
NO	Relay Output - Normally Open	Relay output - opens on trip
COM	Relay Output - Common	Common terminal for relay output
NC	Relay Output - Normally Close	Relay output - closes on trip

CBCT SERIES

CORE BALANCE CURRENT TRANSFORMERS

Reliable Earth Leakage Monitoring Solutions

Designed for use with Earth Leakage Relays (ELR) and Residual Current Protection Systems.



High Accuracy
Leakage Current Detection



Compatible
with KAR-1 Earth Leakage Relay



Toroidal &
Split Core Models Available



Up to 20kA
Short-Time Current Withstand



UL94 V0
Flame Retardant Material



IEC 60947-2
Compliant

PRODUCT RANGE

TOROIDAL CBCT

- Ø25 mm
- Ø45 mm
- Ø80 mm
- Ø100 mm
- Ø150 mm
- Ø210 mm
- Ø310 mm

SPLIT CORE CBCT

- 200 × 200 mm
- 300 × 300 mm
- 360 × 100 mm
- 500 × 100 mm



Reliable
Protection



Easy
Installation



High
Accuracy



Long
Service Life

CE

ISO
9001

ISO
14001

ISO
45001

www.hsgrup.com.tr

Core Balance Current Transformer CBCT

The KAR-1 is compatible with a range of high-quality Core Balance Current Transformers (CBCTs). These CBCTs have been identified as suitable choices to ensure optimal performance and compatibility with the KAR-1 device.

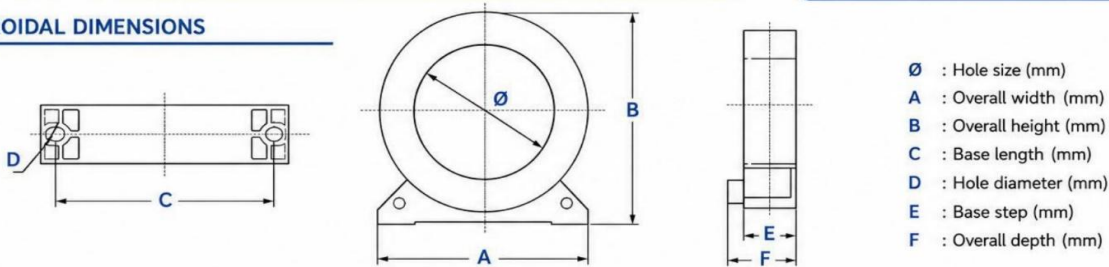
Parameter	Value
Standard	IEC 60947-2 / IEC 60947-2 LV directive 2014/35/EU EMC directive 2014/30/EU
Operating Voltage Rated Value Maximum	1000 V
Nominal Frequency	47...65Hz
Operating Frequency	25...10kHz -3dB
Permissible Current	20kA During 1 second
Material Fire Rating	UL94 V0
Power-Frequency Withstanding Voltage	3kV 50Hz, 1 min.
Installation Category	CAT. III 600V reinforced
Protection Degree	IP20
Insulation Resistance	DC500V/100M
Short Term Overcurrent	6·In (2 s)
Operating Temperature	-20 to +55°C
Storage Temperature	-20...+70°C
Connections	1.5mm ²
Standard	IEC 60947-2

TOROIDAL CURRENT TRANSFORMERS (CBCT)

TYPE	CODE	HOLE SIZE Ø (mm)	AMPERE (A)
TOROIDAL	CBCT-1-25	25 mm	63 A
	CBCT-1-45	45 mm	100 A
	CBCT-1-80	80 mm	400 A
	CBCT-1-100	100 mm	630 A
	CBCT-1-150	150 mm	1250 A
	CBCT-1-210	210 mm	2500 A
	CBCT-1-310	310 mm	3500 A



TOROIDAL DIMENSIONS



CODE	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
CBCT-1-45	45	78	84	66	5	24	32
CBCT-1-80	80	113	119	101	5	26	34
CBCT-1-150	150	187	195	170	5	27	35
CBCT-1-210	210	259	255	241	5	27	35
CBCT-1-310	310	361	360	342	5	27	35

Split Core CBCT

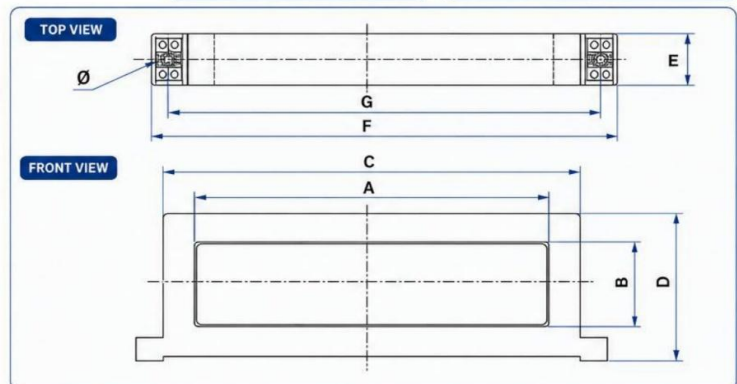
Type	Code	Hole size Ø (mm)	Ampere (A)
 Split Core Rectangular CBCT	KCBCT-1-20-10	200 X 200	2500A
	KCBCT-1-30-10	300 X 300	4000A
	KCBCT-1-36-10	360 X 100	5000A
	KCBCT-1-50-10	500 X 100	5500A



DIMENSIONS

CODE	Ø	A	B	C	D	E	F	G
KCBCT-1-20-10	6	200	200	230	270	30	260	245
KCBCT-1-30-10	6	300	300	330	370	30	360	345
KCBCT-1-36-10	6	360	100	390	160	30	420	405
KCBCT-1-50-10	6	500	100	560	160	30	590	575

NOTE: All dimensions are in millimeters (mm).



FUSE LINK & FUSE HOLDER

Reliable Protection.
Built for Performance.



Reliable Protection
Safe & Effective Circuit Protection



High Breaking Capacity
Up to 690V AC



Heat & Flame Resistant
High-Quality Insulation Materials



Easy Installation
DIN Rail Mounting



Standards Compliant
IEC 60269



Reliable
Protection



Easy
Installation



High
Performance



Made in Turkey

www.hsgrup.com.tr

Cylindrical fuse links and fuse holder

Fuse holder is designed for fuse link installation and circuit protection against short circuit and overload. The fuse link is a part of the fuse holder with a fuse and is replaced after tripping. If overload or short-circuit currents exceed thresholds, the fuse link blows out and the LED on the fuse holder lights up.

Fuse links are used to protect cable lines, household appliances and industrial equipment. Copper and aluminum wire connections are supported.

Fuse links and fuse holder are designed to protect cable lines from overload and short-circuit current:

- ✿ household appliances;
- ✿ Industrial equipment.



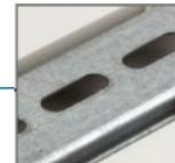
Visible breaking point



Wide range of rated currents



Indication of overload or short-circuit thresholds exceeded



DIN rail Mounting plate



Easy fuse link replacement

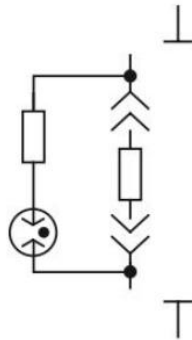
Features&Benefits

- ✿ Full range protection
- ✿ Meets IEC standards for global acceptance
- ✿ Standardized cylindrical construction
- ✿ Low power dissipation performance for lower temperature rise
- ✿ Easy installation

Technical data

Parameters	Size		
Fuse Holder	10×38	14×51	22×58
Rated current at 690 V AC I _n , A	0,5; 1; 2; 4; 6; 8; 10	2; 4; 6; 8; 10; 16; 20; 25	2; 4; 6; 8; 10; 16; 20; 25; 32; 40; 50
Weight, g	50	83	170
Mechanical endurance, O-C cycles	2000	2000	1600
Degree of protection: IEC 60529	IP20	IP20	IP20
Operating temperature, °C	from -10 to +55	from -10 to +55	from -10 to +55
Cross-section of connected wires, mm ²	From 1 to 25	From 1 to 25	max. 50
Tightening torque, N·m	2,5	2,5	2,5
Cylindrical fuse links			
Rated current I _n , A	0,5; 1; 2; 4; 6; 8; 10; 16; 20; 25; 32	2; 4; 6; 10; 16; 20; 25; 32; 40; 50; 63	2; 4; 6; 8; 10; 16; 20; 25; 32; 40; 50; 63; 80; 100; 125
CFL type	gG	gG	gG
Weight, g	7,7	20,5	58
Rated breaking capacity I _{cs} , kA	50	50	50
Degree of protection: IEC 60529	IP20	IP20	IP20
Operating temperature, °C	from -10 to +55	from -10 to +55	from -10 to +55

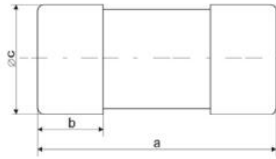
Wiring diagram



Operation

The LED lights up, when disconnecter trips

Cylindrical fuse links

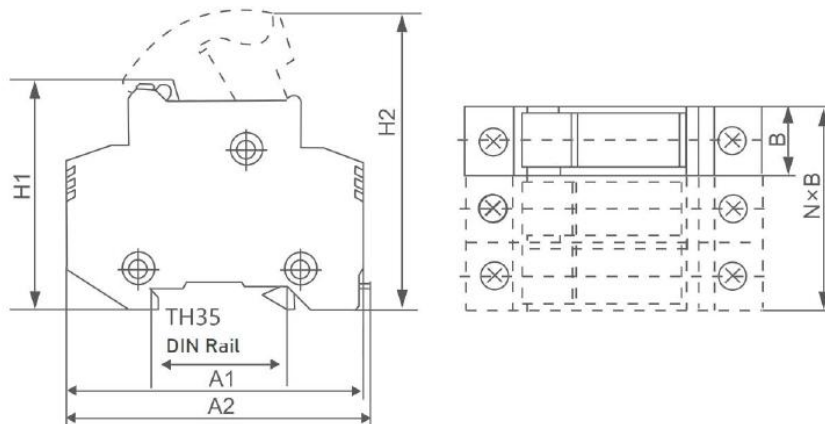


Size	a	b	c
10x38	38	10	10,3
14x51	51	12	14
22x58	58	16	22

Name	Rated voltage, V	Rated frequency, Hz	Maximum current, A	Max. power dissipation, W
HFH-38	500	50/60	8	3
HFH-51	500	50/60	20	5
HFH-58	500	50/60	40	9.5

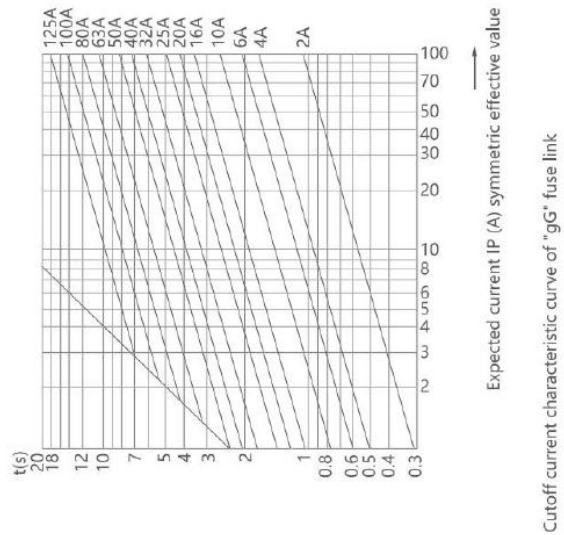
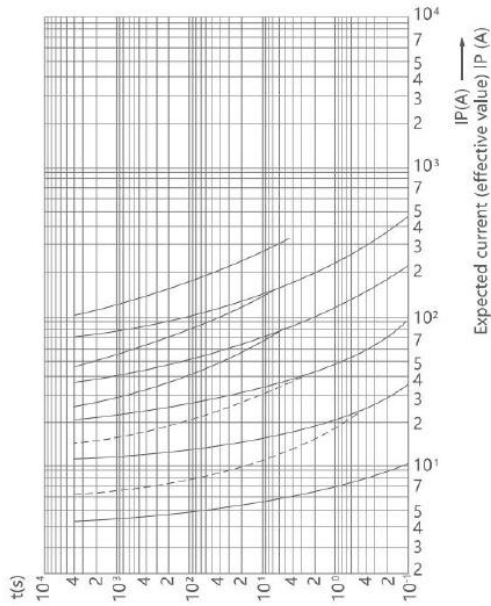
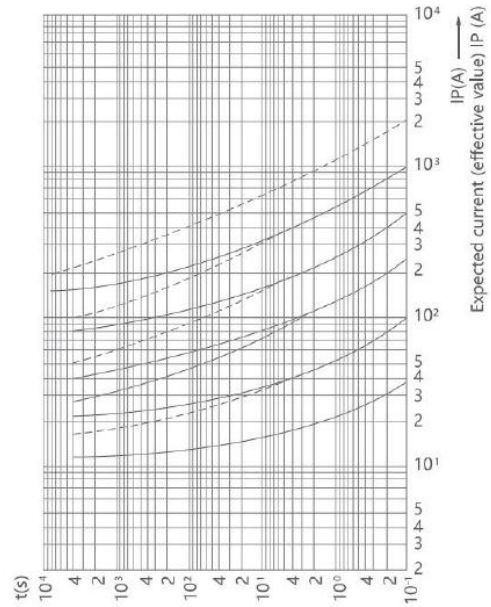
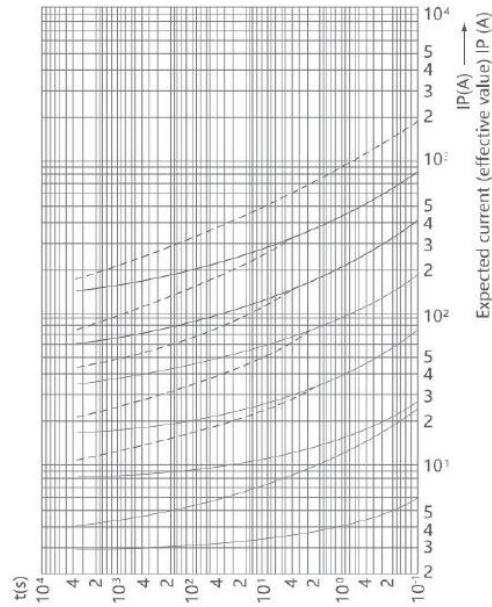
Name	Rated operating current In, A	Rated voltage, V	Rated frequency, Hz	10x38	14x51	22x58
Cylindrical fuse link 0,5A	0.5	500	50/60	HFL-38-0.5	-	-
Cylindrical fuse link 1A	1	500	50/60	HFL-38-1	-	-
Cylindrical fuse link 2A	2	500	50/60	HFL-38-2	-	-
Cylindrical fuse link 4A	4	500	50/60	HFL-38-4	-	-
Cylindrical fuse link 6A	6	500	50/60	HFL-38-6	-	-
Cylindrical fuse link 8A	8	500	50/60	HFL-38-8	-	-
Cylindrical fuse link 10A	10	500	50/60	HFL-38-10	-	-
Cylindrical fuse link 16A	16	500	50/60	HFL-38-16	-	-
Cylindrical fuse link 20A	20	500	50/60	HFL-38-20	-	-
Cylindrical fuse link 25A	25	500	50/60	HFL-38-25	-	-
Cylindrical fuse link 32A	32	500	50/60	HFL-38-32	-	-
Cylindrical fuse link 40A	40	500	50/60	-	HFL-51-40	-
Cylindrical fuse link 50A	50	500	50/60	-	HFL-51-50	-
Cylindrical fuse link 63A	63	500	50/60	-	HFL-51-64	HFL-58-63
Cylindrical fuse link 80A	80	500	50/60	-	-	HFL-58-80
Cylindrical fuse link 100A	100	500	50/60	-	-	HFL-58-100
Cylindrical fuse link 125A	125	500	50/60	-	-	HFL-58-125

Fuse holder



Model	Outline Dimension (mm)				
	A1	A2	B	H1	H2
HFH-38	77	78	17	61	80
HFH-51	96	97	26	67	94
HFH-58	127	129	35	76	104

Time Current Characteristic Curve



HSFA SERIES

INDUSTRIAL COOLING FANS

High-performance airflow solutions
Reliable cooling for industrial panels



HSFA-120

83 CFM (140 m³/h)



HSFA-172

143 CFM (240 m³/h)



HSFA-225

411 CFM (700 m³/h)



HSFA-280

1200 CFM (2000 m³/h)



High Airflow



IP54 Protection



Long Lifetime



Easy Installation



Reliable
Cooling



Industrial
Performance



Wide
Application



www.hsgrup.com.tr

HSFA-120

INDUSTRIAL COOLING FAN

High Performance. Reliable Cooling.
Built for Industrial Applications.



TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	HSFA-120
Fan Type	AC Axial Cooling Fan
Size	120 × 120 × 38 mm
Rated Voltage	220-240V AC
Frequency	50/60 Hz
Rated Current	0.14A±5%
Output Power	23W±5%
Speed (RPM)	2400±5%
Air Flow	83 CFM
Noise Level	45 dB(A)
Bearing Type	Sleeve Bearing
Protection Class	IP54
Insulation Class	Class F
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Expected Lifetime	40,000 Hours @ 25°C
Pole Number	2 Pole

				
83 CFM High Airflow	Low Noise 45 dB(A)	IP54 Protection	40,000 Hours Lifetime	Easy Installation

MAIN FEATURES

- High airflow performance
- Reliable sleeve bearing system
- Compact industrial design
- Low noise operation
- Long operational lifetime
- IP54 protection class
- Aluminum frame construction
- Suitable for continuous operation
- Wide operating voltage range
- Easy panel mounting

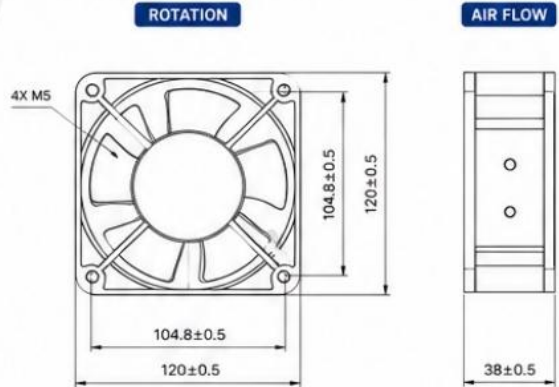
MATERIAL INFORMATION

Component	Material
Frame	Aluminum
Blade	PBT
Shaft	Stainless Steel
Core Material	Silicon Steel
Insulation Frame	PA66 Nylon

APPLICATIONS

- Electrical Panels
- Automation Cabinets
- UPS Systems
- Industrial Machines
- Ventilation Systems
- Cooling Units
- Power Supplies
- HVAC Systems

MECHANICAL DIMENSIONS



- Fan Size: 120 × 120 × 38 mm
- Mounting Hole Type: M5
- Airflow Direction: As marked on housing
- Rotation Direction: Counterclockwise (front view)

OPERATING CONDITIONS

Condition	Specification
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Operating Humidity	35% ~ 85% RH
Storage Humidity	35% ~ 85% RH

ELECTRICAL PROTECTION

Protection Feature	Status
Locked Rotor Protection	No
Reverse Polarity Protection	No
Auto Restart Function	No
Speed Control Function	No
Signal Output	No

WIRING DEFINITION

Wire Color	Connection
Black	L
Black	N

SAFETY & RELIABILITY TESTS

	Dielectric Strength	AC 1800V applied between terminal and frame.
	Rotor Lock Test	Fan operates normally after 24-hour locked rotor test.
	Vibration Resistance	Tested under industrial vibration conditions.
	Shock Resistance	Passed 60G / 11ms shock test.
	Durability Test	40,000 hours continuous operation under rated conditions.

HSFA-172

INDUSTRIAL COOLING FAN

High Performance. Reliable Cooling.
Built for Industrial Applications.



TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	HSFA-172
Fan Type	AC Axial Cooling Fan
Size	172 × 150 × 50 mm
Rated Voltage	220–240V AC
Frequency	50/60 Hz
Rated Current	0.24A±5%
Output Power	38W±5%
Speed (RPM)	2300±5%
Air Flow	143 CFM
Noise Level	48 dB(A)
Bearing Type	Sleeve Bearing
Protection Class	IP54
Insulation Class	Class F
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +70°C
Expected Lifetime	40,000 Hours @ 25°C
Pole Number	2 Pole



High Airflow
143 CFM



Low Noise
48 dB(A)



IP54
Protection



Long Life
Operation



Easy
Installation

MAIN FEATURES

- High airflow performance
- Reliable sleeve bearing system
- Compact industrial design
- Low noise operation
- Long operational lifetime
- IP54 protection class
- Aluminum frame construction
- Suitable for continuous operation
- Wide operating voltage range
- Easy panel mounting

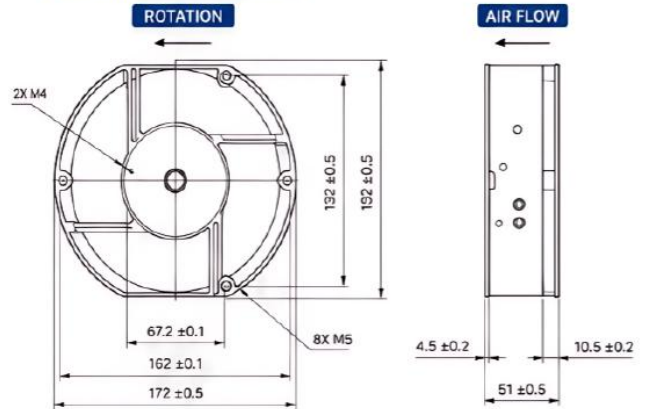
MATERIAL INFORMATION

Component	Material
Frame	Aluminum
Blade	PBT
Shaft	Stainless Steel
Core Material	Silicon Steel
Insulation Frame	PA66 Nylon

APPLICATIONS

- Electrical Panels
- Automation Cabinets
- UPS Systems
- Industrial Machines
- Ventilation Systems
- Cooling Units
- Power Supplies
- HVAC Systems

MECHANICAL DIMENSIONS



- Fan Size: 172 × 150 × 50 mm
- Mounting Hole Type: M5
- Airflow Direction: As marked on housing
- Rotation Direction: Counterclockwise (front view)

OPERATING CONDITIONS

Condition	Specification
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Operating Humidity	35% – 85% RH
Storage Humidity	35% – 85% RH

ELECTRICAL PROTECTION

Protection Feature	Status
Locked Rotor Protection	No
Reverse Polarity Protection	No
Auto Restart Function	No
Speed Control Function	No
Signal Output	No

WIRING DEFINITION

Wire Color	Connection
Black	L
Black	N

SAFETY & RELIABILITY TESTS

	Dielectric Strength	AC 1800V applied between terminal and frame.
	Rotor Lock Test	Fan operates normally after 24-hour locked rotor test.
	Vibration Resistance	Tested under industrial vibration conditions.
	Shock Resistance	Passed 60G / 11ms shock test.
	Durability Test	40,000 hours continuous operation under rated conditions.

HSFA-225

INDUSTRIAL COOLING FAN

High Performance. Reliable Cooling.
Built for Industrial Applications.



High Airflow
411 CFM



Low Noise
52 dB(A)



IP54
Protection



Long Life
Operation



Easy
Installation

MAIN FEATURES

- High airflow performance (411 CFM)
- Ball bearing system
- Heavy-duty metal blade construction
- Long operational lifetime
- IP54 protection class
- Aluminum frame construction
- Suitable for continuous operation
- Wide operating voltage range
- Easy panel mounting

MATERIAL INFORMATION

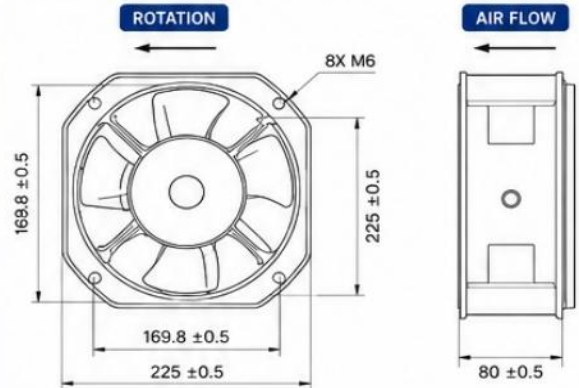
Component	Material
Frame	Aluminum
Blade	Carbon Steel
Shaft / Core	Silicon Steel
Coil	Copper
Bearing	Ball Bearing
Capacitor	2.2 μ F

APPLICATIONS

- Electrical Panels
- Automation Cabinets
- UPS Systems
- Industrial Machines
- Ventilation Systems
- Cooling Units
- Power Supplies
- HVAC Systems

Parameter	Specifications
Model	HSFA-225
Fan Type	AC Axial Cooling Fan
Size	225 x 225 x 80 mm
Rated Voltage	220-240V AC
Frequency	50/60 Hz
Rated Current	0.25A $\pm$ 5%
Output Power	60W $\pm$ 5%
Speed (RPM)	2600 $\pm$ 5%
Air Flow	411 CFM
Noise Level	52 dB(A)
Bearing Type	Ball Bearing
Protection Class	IP54
Insulation Class	Class F
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Expected Lifetime	40,000 Hours @ 25°C
Pole Number	2 Pole

MECHANICAL DIMENSIONS



- Fan Size: 225 x 225 x 80 mm
- Mounting Hole Type: M6
- Airflow Direction: As marked on housing
- Rotation Direction: As marked on housing (front view)

OPERATING CONDITIONS

Condition	Specification
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Operating Humidity	35% ~ 85% RH
Storage Humidity	35% ~ 85% RH

ELECTRICAL PROTECTION

Protection Feature	Status
Locked Rotor Protection	No
Reverse Polarity Protection	No
Auto Restart Function	No
Speed Control Function	No
Signal Output	No

WIRING DEFINITION

Wire Color	Connection
Brown	L
Black	N

SAFETY & RELIABILITY TESTS

	Dielectric Strength	AC 1800V applied between terminal and frame.
	Rotor Lock Test	Fan operates normally after 24-hour locked rotor test.
	Vibration Resistance	Tested under industrial vibration conditions.
	Shock Resistance	Passed 60G / 11ms shock test.
	Durability Test	40,000 hours continuous operation under rated conditions.

HSFA-280

INDUSTRIAL COOLING FAN

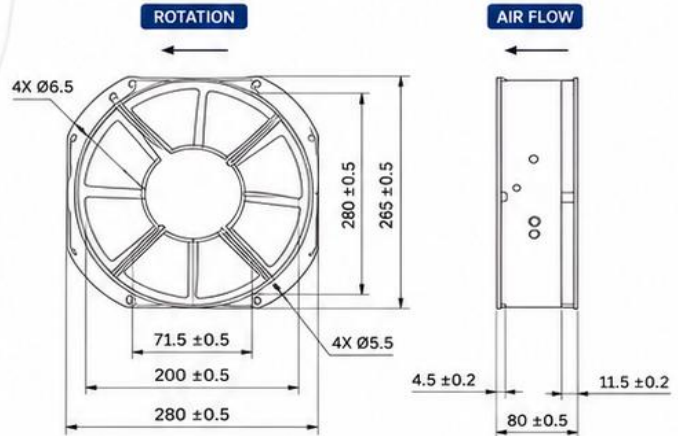
High Performance. Reliable Cooling.
Built for Industrial Applications.



TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	HSFA-280
Fan Type	AC Axial Cooling Fan
Size	280 × 280 × 80 mm
Rated Voltage	220–240V AC
Frequency	50/60 Hz
Rated Current	0.36A±5%
Output Power	80W±5%
Speed (RPM)	2650±5%
Air Flow	1200 CFM
Noise Level	56 dB(A)
Bearing Type	Ball Bearing
Protection Class	IP54
Insulation Class	Class F
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Expected Lifetime	40,000 Hours @ 25°C
Pole Number	2 Pole

MECHANICAL DIMENSIONS



MAIN FEATURES

- High airflow performance
- Reliable ball bearing system
- Heavy-duty industrial design
- Low noise operation
- Long operational lifetime
- IP54 protection class
- Aluminum frame construction
- Suitable for continuous operation
- Wide operating voltage range
- Easy panel mounting

MATERIAL INFORMATION

Component	Material
Frame	Aluminum
Blade	Carbon Steel
Shaft/Core	Silicon Steel
Coil	Pure Copper
Bearing	Ball Bearing
Insulation Frame	Class F

APPLICATIONS

- Electrical Panels
- Automation Cabinets
- UPS Systems
- Industrial Machines
- Ventilation Systems
- Cooling Units
- Power Supplies
- HVAC Systems

OPERATING CONDITIONS

Condition	Specification
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Operating Humidity	35% – 85% RH
Storage Humidity	35% – 85% RH

ELECTRICAL PROTECTION

Protection Feature	Status
Locked Rotor Protection	No
Reverse Polarity Protection	No
Auto Restart Function	No
Speed Control Function	No
Signal Output	No

WIRING DEFINITION

Wire Color	Connection
Black	L
Brown	N

SAFETY & RELIABILITY TESTS

	Dielectric Strength	AC 2000V applied between terminal and frame.
	Rotor Lock Test	Fan operates normally after 24-hour locked rotor test.
	Vibration Resistance	Tested under industrial vibration conditions.
	Shock Resistance	Passed 60G / 11ms shock test.
	Durability Test	40,000 hours continuous operation under rated conditions.

HSFF SERIES INDUSTRIAL FILTER FANS

High-performance filtered airflow solutions
Reliable cooling for industrial control panels



HSFF-150-120
83 CFM (140 m³/h)



HSFF-200-172
143 CFM (240 m³/h)



HSFF-250-172
143 CFM (240 m³/h)



HSFF-250-225
411 CFM (700 m³/h)



HSFF-325-280
1200 CFM (2000 m³/h)



Filtered Airflow



IP54 Protection



Long Lifetime



Easy Installation



Reliable
Cooling



Industrial
Performance



Wide
Application



www.hsgrup.com.tr

HSFF-150-120

FILTER FAN

HSFL-150 filter housing combined with HSFA-120 axial fan



PRODUCT HIGHLIGHTS

83 CFM (140 m³/h)

Free-air fan rating

IP54

Filter housing and fan rating

220-240 V AC

50/60 Hz supply

RAL 7035

Lightgrey ABS housing

148.5 x 148.5 mm

Housing outline size

ELECTRICAL & FAN SPECIFICATIONS

Model	HSFF-150-120
Fan type	AC axial cooling fan
Rated voltage	220-240 V AC
Frequency	50/60 Hz
Rated current	0.14 A +/-5%
Output power	23 W +/-5%
Speed	2400 RPM +/-5%
Airflow	83 CFM (140 m ³ /h)
Noise level	45 dB(A)
Bearing	Sleeve bearing
Insulation class	Class F
Expected lifetime	40,000 h at 25 C

HOUSING & INSTALLATION

Filter housing	HSFL-150
Fan	HSFA-120
Outline size	148.5 x 148.5 mm
Housing depth C	28 mm
Dimension D	13.5 mm
Inner size E x F	131 x 148.5 mm
Mounting opening	122 x 122 mm
Mounting hole	Dia. 5 mm
Dimension M	65.5 mm
Panel thickness	1.0-3.0 mm
Housing material	ABS (UL94 V-0)
Housing color	LightGrey, RAL 7035

OPERATING CONDITIONS

Operating temperature	-10 C to +55 C **
Fan storage temperature	-20 C to +70 C
Operating humidity	35% -85% RH
Protection class	IP54

ASSEMBLY CONSTRUCTION

Front component	Louvered cover
Filter element	Replaceable filter pad
Air mover	120 x 120 x 38 mm fan
Rear component	Mounting frame

Application note

For ventilation of electrical panels, automation cabinets, UPS systems and industrial equipment.

* Mounting-opening values reproduced from the HSFL-150 source sheet; verify against the physical sample before panel cutting.

** The combined assembly temperature limit is governed by the HSFL-150 filter housing. Installed airflow depends on filter loading and system resistance.

HSFF-200-172

FILTER FAN

HSFL-200 filter housing combined with HSFA-172 axial fan



PRODUCT HIGHLIGHTS

143 CFM

240 m³/h free-air rating

IP54

Filter housing and fan rating

220-240 V AC

50/60 Hz supply

RAL 7035 / 7032

Light-grey ABS housing

204 x 204 mm

Housing outline size

ELECTRICAL & FAN SPECIFICATIONS

Model	HSFF-200-172
Fan type	AC axial cooling fan
Rated voltage	220-240 V AC
Frequency	50/60 Hz
Rated current	0.24 A +/-5%
Output power	38 W +/-5%
Speed	2300 RPM +/-5%
Free-air fan rating	143 CFM (240 m ³ /h)
Noise level	48 dB(A)
Bearing	Sleeve bearing
Insulation class	Class F
Expected lifetime	40,000 h at 25 C

HOUSING & INSTALLATION

Filter housing	HSFL-200
Fan	HSFA-172
Outline size	204 x 204 mm
Housing depth C	28 mm
Dimension D	13.5 mm
Inner size E x F	184 x 204 mm
Mounting opening	175 x 175 mm*
Mounting hole	Dia. 5 mm
Dimension M	92 mm
Panel thickness	1.0-3.0 mm
Housing material	ABS (UL94 V-0)
Housing color	Light Grey, RAL 7035 or RAL 7032

OPERATING CONDITIONS

Operating temperature	-10 C to +55 C**
Fan storage temperature	-20 C to +70 C
Operating humidity	35%-85% RH
Protection class	IP54

ASSEMBLY CONSTRUCTION

Front component	Louvered cover
Filter element	Replaceable filter pad
Air mover	172 x 150 x 50 mm fan
Rear component	Mounting frame

Application note

For ventilation of electrical panels, automation cabinets, UPS systems and industrial equipment.

* Mounting-opening values reproduced from the HSFL-200 source sheet; verify against the physical sample before panel cutting.

** The combined assembly temperature limit is governed by the HSFL-200 filter housing. Installed airflow depends on filter loading and system resistance.

HSFF-250-172

FILTER FAN

HSFL-250 filter housing combined with HSFA-172 axial fan



PRODUCT HIGHLIGHTS

143 CFM

240 m³/h free-air rating

IP54

Filter housing and fan rating

220-240 V AC

50/60 Hz supply

RAL 7035 or RAL 7032

Light-grey ABS housing

255 × 255 mm

Housing outline size

ELECTRICAL & FAN SPECIFICATIONS

Model	HSFF-250-172
Fan type	AC axial cooling fan
Fan size	172 × 150 × 50 mm
Rated voltage	220-240 V AC
Frequency	50/60 Hz
Rated current	0.24 A ±5%
Output power	38 W ±5%
Speed	2300 RPM ±5%
Airflow	143 CFM (240 m ³ /h)
Noise level	48 dB(A)
Bearing	Sleeve bearing
Insulation class	Class F
Expected lifetime	40,000 h at 25°C

HOUSING & INSTALLATION

Filter housing	HSFL-250
Fan	HSFA-172
Outline size	255 × 255 mm
Housing depth C	28 mm
Dimension D	13.5 mm
Inner size E × F	233 × 251 mm
Mounting opening J × K	223 × 223 mm
Mounting hole	Dia. 5 mm
Dimension M	118 mm
Panel thickness	1.0-3.0 mm
Housing material	ABS (UL94 V-0)
Housing color	Light grey, RAL 7035 or RAL 7032

OPERATING CONDITIONS

Operating temperature	-10°C to +55°C
Fan storage temperature	-20°C to +70°C
Operating humidity	35%-85% RH
Protection class	IP54

ASSEMBLY CONSTRUCTION

Front component	Louvered cover
Filter element	Replaceable filter pad
Air mover	172 × 150 × 50 mm fan
Rear component	Mounting frame

Application note

For ventilation of electrical panels, automation cabinets, UPS systems and industrial equipment.

HSFF-250-225

FILTER FAN

HSFL-250 filter housing combined with HSFA-225 axial fan



PRODUCT HIGHLIGHTS

411 CFM

700 m³/h free-air rating

IP54

Filter housing and fan rating

220-240 V AC

50/60 Hz supply

RAL 7035 / 7032

Light-grey ABS housing

255 x 255 mm

Housing outline size

HOUSING & INSTALLATION

Filter housing	HSFL-250
Fan	HSFA-225
Outline size	255 x 255 mm
Housing depth C	28 mm
Dimension D	13.5 mm
Inner size E x F	233 x 251 mm
Mounting opening	223 x 223 mm*
Mounting hole	Dia. 5 mm
Dimension M	118 mm
Panel thickness	1.0-3.0 mm
Housing material	ABS (UL94 V-0)
Housing color	Light Grey, RAL 7035 or RAL 7032

Model	HSFF-250-225
Fan type	AC axial cooling fan
Rated voltage	220-240 V AC
Frequency	50/60 Hz
Rated current	0.25 A +/-5%
Output power	60 W +/-5%
Speed	2600 RPM +/-5%
Free-air fan rating	411 CFM (700 m ³ /h)
Noise level	52 dB(A)
Bearing	Ball bearing
Insulation class	Class F
Expected lifetime	40,000 h at 25 C

OPERATING CONDITIONS

Operating temperature	-10 C to +55 C**
Fan storage temperature	-20 C to +70 C
Operating humidity	35%-85% RH
Protection class	IP54

ASSEMBLY CONSTRUCTION

Front component	Louvered cover
Filter element	Replaceable filter pad
Air mover	225 x 225 x 80 mm fan
Rear component	Mounting frame

Application note

For ventilation of electrical panels, automation cabinets, UPS systems and industrial equipment.

* Mounting-opening values reproduced from the HSFL-250 source sheet; verify against the physical sample before panel cutting.

** The combined assembly temperature limit is governed by the HSFL-250 filter housing. Installed airflow depends on filter loading and system resistance.

HSFF-325-280

FILTER FAN

HSFL-325 filter housing combined with HSFA-280 axial fan



PRODUCT HIGHLIGHTS

1200 CFM (2000 m³/h)

Free-air fan rating

IP54

Filter housing and fan rating

220–240 V AC

50/60 Hz supply

RAL 7035 or RAL 7032

Light-grey ABS housing

320 × 320 mm

Housing outline size

ELECTRICAL & FAN SPECIFICATIONS

Model	HSFF-325-280
Fan type	AC axial cooling fan
Rated voltage	220–240 V AC
Frequency	50/60 Hz
Rated current	0.36 A ±5%
Output power	80 W ±5%
Speed	2650 RPM ±5%
Airflow	1200 CFM (2000 m ³ /h)
Noise level	56 dB(A)
Bearing	Ball bearing
Insulation class	Class F
Expected lifetime	40,000 h at 25°C

HOUSING & INSTALLATION

Filter housing	HSFL-325
Fan	HSFA-280
Outline size	320 × 320 mm
Housing depth C	28 mm
Dimension D	13.5 mm
Inner size E × F	300 × 316 mm
Mounting opening	283 × 283 mm
Mounting hole	Dia. 5 mm
Dimension M	150 mm
Panel thickness	1.0–3.0 mm
Housing material	ABS (UL94 V-0)
Housing color	Light grey, RAL 7035 or RAL 7032

OPERATING CONDITIONS

Operating temperature	–10°C to +55°C**
Fan storage temperature	–20°C to +70°C
Operating humidity	35%–85% RH
Protection class	IP54

ASSEMBLY CONSTRUCTION

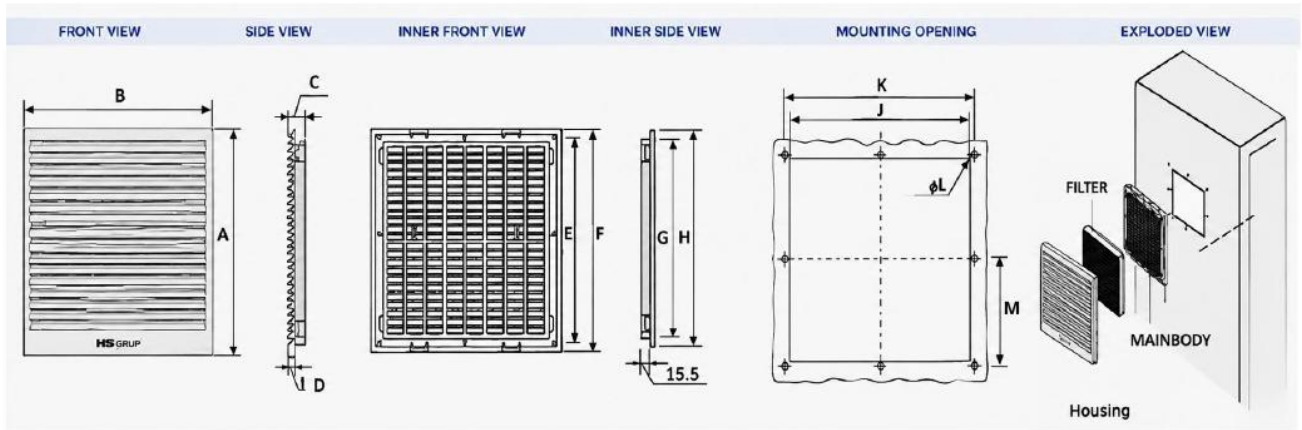
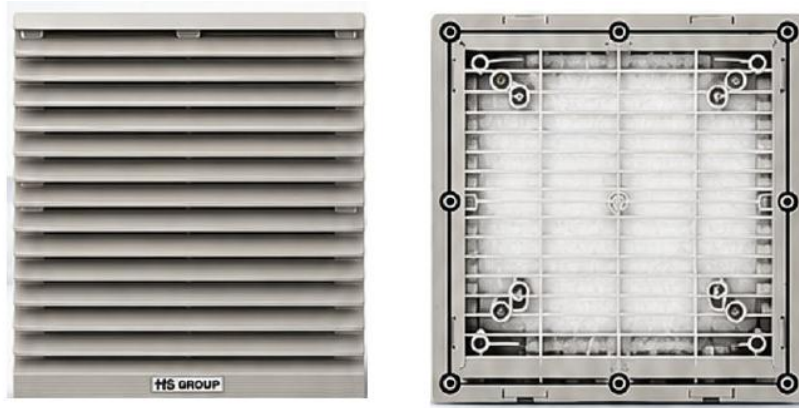
Front component	Louvered cover
Filter element	Replaceable filter pad
Air mover	280 × 280 × 80 mm fan
Rear component	Mounting frame

Application note

For ventilation of electrical panels, automation cabinets, UPS systems and industrial equipment.

*Mounting opening values reproduced from the HSFL-325 source sheet; verify against the physical sample before panel cutting.

**The combined assembly temperature limit is governed by the HSFL-325 filter housing. Installed airflow depends on filter loading and system resistance.



MODEL	OUTLINE SIZE (mm)		C (DEPTH)	D	INNER SIZE (mm)		SIDE VIEW (mm)		MOUNTING OPENING (mm)		ØL (mm)	M
	A	B			E	F	G	H	J	K		
HSFL-150	148.5	148.5	28	13.5	131	148.5	115	144.5	131	122	5	65.5
HSFL-200	204	204	28	13.5	184	204	188	200	175	184	5	92
HSFL-250	255	255	28	13.5	233	251	248	250	223	233	5	118
HSFL-325	320	320	28	13.5	300	316	282	317	283	300	5	150

Parameter	Specification
Dimensions	All dimensions in millimeters (mm)
IP Rating	IP54
Mounting panel thickness	1.0–3.0 mm
Mounting hole diameter	5 mm
Material	ABS (UL94 V-0)
Color	Light Grey (RAL 7035)
Operating temperature	–10°C to +55°C

HSPH SERIES

PTC PANEL HEATERS

High Efficiency Cabinet Heating Solutions
Reliable Temperature Control for
Electrical Enclosures



**Energy Efficient
PTC Technology**
Self-Regulating
Heating Element



Wide Voltage Range
120-240V AC/DC



**Anti-Condensation
Protection**
Protects Sensitive
Equipment



**Industrial Grade
Construction**
Anodized Aluminum
Housing



Wide Temperature Range
-45°C to +70°C



DIN Rail Mounting
Quick & Easy
Installation



Reliable
Protection



Energy
Saving



Fast
Heating



Long
Service Life



ISO
9001

ISO
14001

ISO
45001

-  Pressure clamp connectors
-  Dynamic heating up
-  Wide voltage range
-  Energy saving
-  Clip fixing
-  Quick installation

These heaters are used in enclosures where damage from condensation must be prevented,

or where the temperature may not fall below a minimum value. The aluminium profile heater

body design has a chimney effect and distributes the heat evenly. The heaters are designed

for permanent operation. Pressure clamp connectors save time and simplify installation.



TECHNICAL DATA

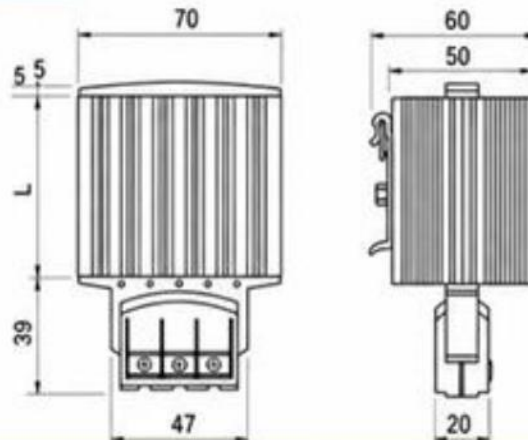
Operating voltage	: 120-240V AC/DC* (min. 110V, max. 265V)
Heating element	: PTC resistor - temperature limiting
Heater body	: extruded aluminium profile, anodised
Connection	: 3 pressure clamps for stranded wire 0.5-1.5mm ² (with wire end ferrule) and rigid wire 0.5- 2.5mm ²
Connection casing	: plastic according to UL94 V-0, black
Mounting	: clip for 35mm DIN rail, EN 60715
Fitting position	: vertical airflow (air outlet up, connection on bottom)
Operating/Storage temperature	: -45 to +70°C (-49 to +158°F)
Operating/Storage humidity	: max. 90% RH (non-condensing)
Protection type/Protection Class	: IP20 / I (earthed)
Accessories	: -
Note	: other voltages on request

* Operating with voltages below 140V AC/DC reduces heating performance by approx. 10%.

Heating capacity*	Inrush max.	Current Pre-fuse (time-delay)	T Length (L)	Weight (approx.)
15W	1.5A	1A	65mm	0.3kg
30W	3.0A	2.5A	65mm	0.3kg
45W	3.5A	2.5A	65mm	0.3kg
50W	3.5A	2.5A	65mm	0.3kg
60W	2.5A	2.5A	140mm	0.4kg
75W	4.0A	4A	140mm	0.5kg
100W	4.5A	4A	140mm	0.5kg
150W	9.0A	6.3A	220mm	0.7kg

* at 20°C (68°F) ambient temperature

TECHNICAL DRAWING



HSTH-R (RED) HSFA-B (BLUE)

MECHANICAL HYGROSTAT MECHANICAL HUMIDITY CONTROL

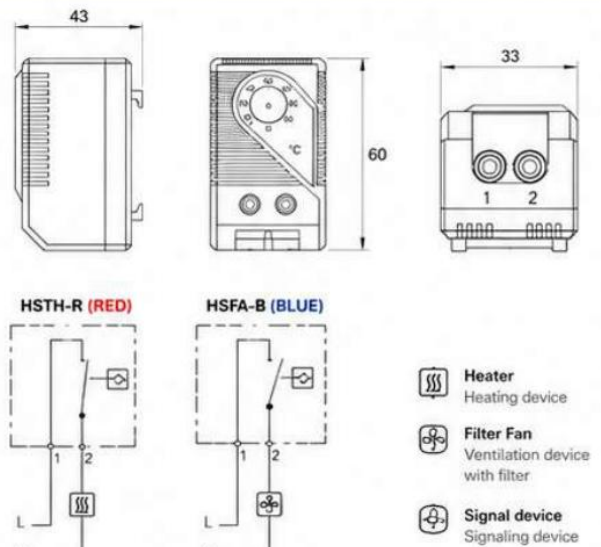
CONTROL | FEATURES

- ✓ Large setting range
- ✓ Simple to mount
- ✓ Compact design
- ✓ High switching capacity

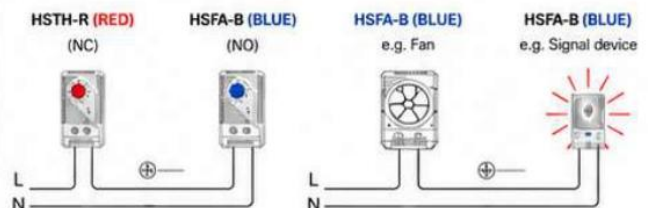
- **HSTH-R (RED)** mechanical thermostat is used to control enclosure heaters and switch on heating devices when the temperature falls below the set value.
- **HSFA-B (BLUE)** mechanical hygostat is used to control filter fans and switch on ventilation devices when the relative humidity exceeds the set value.

TECHNICAL DATA

Model	HSTH-R (RED)	HSFA-B (BLUE)
Function	Thermostat	Hygostat
Setting range	0 ~ +60°C	35 ~ 95% RH
Switching difference	7K ± 4K	4% RH (± 3%)
Sensing element	Bimetal	Polymer
Contact type	Change-over contact	Change-over contact
Contact resistance	< 10 mΩ (with wire) < 10 mΩ (with connector)	< 10 mΩ (with wire) < 10 mΩ (with connector)
Service life	> 100,000 cycles > 100,000 operations	> 100,000 cycles > 100,000 operations
Max. switching capacity	• 250VAC, 10(2)A • 120VAC, 15(2)A • 30VDC at 24VDC to 72VDC	• 250VAC, 10(2)A • 120VAC, 15(2)A • 30VDC at 24VDC to 72VDC
Connection	2-pole terminal Cable 2.5 mm ² Rigid wire 2.5 mm ² Flexible wire (with ferrule) 1.5 mm ²	2-pole terminal Cable 2.5 mm ² Rigid wire 2.5 mm ² Flexible wire (with ferrule) 1.5 mm ²
Housing material	UL94-V-0 Plastic	UL94-V-0 Plastic
Mounting	35mm DIN rail DIN-EN50022	35mm DIN rail DIN-EN50022
Overall dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm
Weight	40 g	40 g
Operating temperature	-40 ~ +80°C	-40 ~ +80°C
Protection degree	IP20	IP20
Approvals	CE, RoHS	CE, RoHS



APPLICATION EXAMPLES



HSHG-01

MECHANICAL HYGROSTAT
ADJUSTABLE RELATIVE HUMIDITY
CONTROL



SETTING RANGE

35 to 95% RH



Adjustable relative humidity



Change-over contact



High switching capacity



Easily accessible terminals



Clip fixing

The electromechanical hygrostat is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65% is exceeded. In this way condensation and corrosion in enclosures with electric/electronic components is effectively prevented.

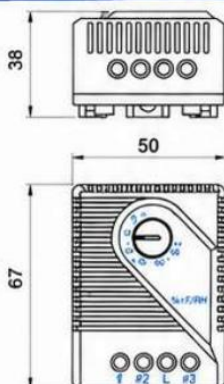
TECHNICAL DATA

Switch difference*	4% RH ($\pm 3\%$ tolerance)
Permissible air velocity	15m/sec.
Contact type	Change-over contact
Service life	> 50,000 cycles
Min. switching capacity	20V AC/DC, 100mA
Max. switching capacity	250VAC, 5A 20VDC
Max. inrush current	5AAC
Connection	3-pole terminal for 2.5mm ² , clamping torque 0.5Nm max.; rigid wire 2.5mm ² stranded wire (with wire end ferrule) 1.5mm ²

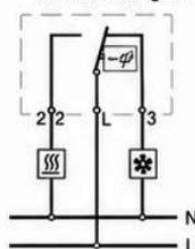
*at 50% RH

Mounting	Clip for 35mm DIN rail
Casing	Plastic according to UL94 V-0, light grey
Dimensions	67 x 50 x 38mm
Weight	approx. 60g
Fitting position	Variable
Operating / Storage temperature	0 to +60°C (+32 to +140°F) / -40 to +60°C (-40 to +140°F)
Operating / Storage humidity	max. 90% RH (non-condensing)
Protection type	IP20
Approvals	CE, RoHS

DIMENSIONS & CONNECTION DIAGRAM



Connection diagram

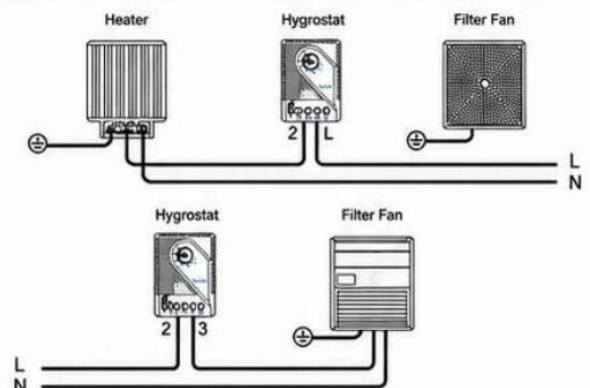


Enclosure heater



Filter fan, Cooling equipment, Signal device

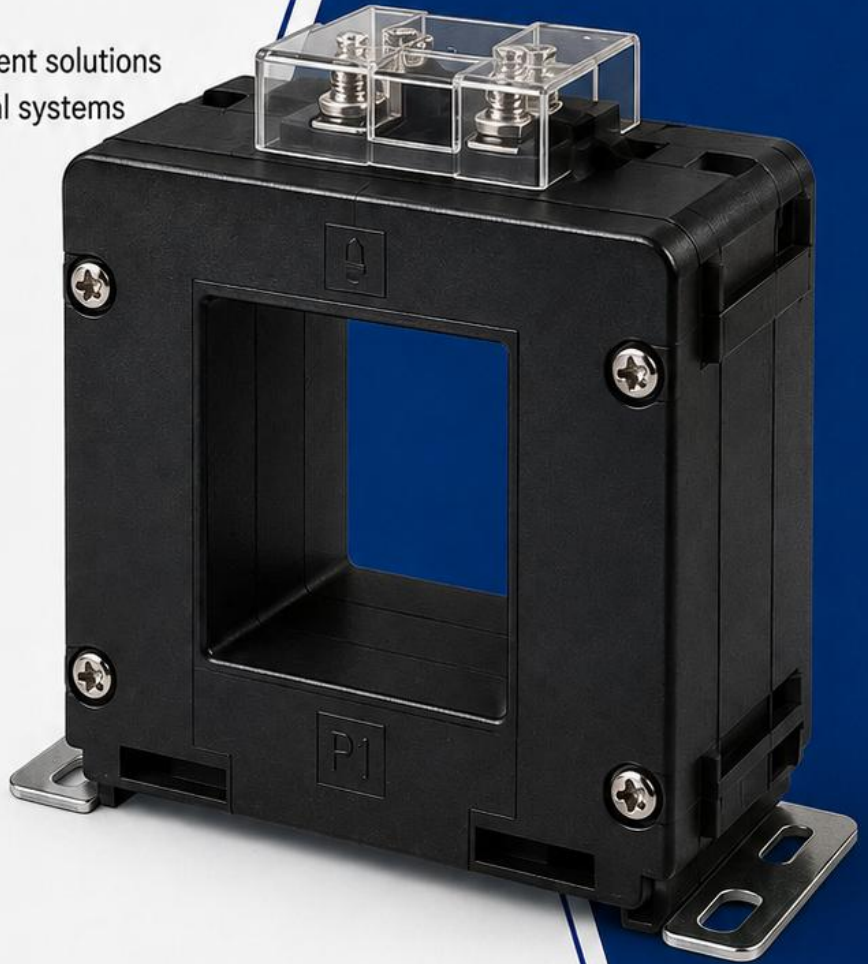
EXAMPLES OF CONNECTION



HSCT SERIES

PRECISION CURRENT TRANSFORMERS

High-accuracy current measurement solutions
Reliable performance for electrical systems



HIGH ACCURACY



SAFE MEASUREMENT



EASY INSTALLATION



WIDE APPLICATION



Reliable
Measurement



Precision
Engineering

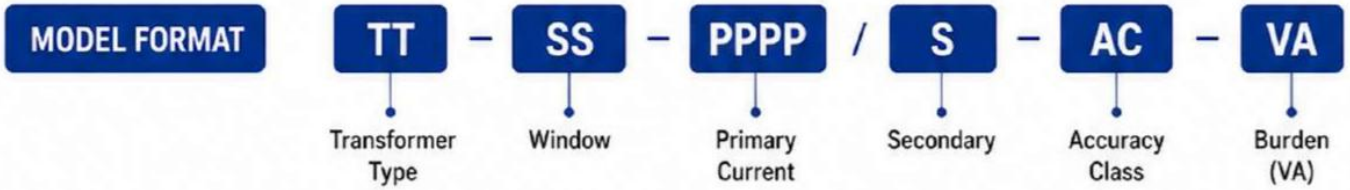


Wide
Application



www.hsgrup.com.tr

MODEL CODING SYSTEM



EXAMPLE

RG-60-600/5-0.5-5

 TRANSFORMER TYPE (TT)		 WINDOW (SS)		 PRIMARY CURRENT (PPPP)		 SECONDARY (S)		 ACCURACY CLASS (AC)		 BURDEN (VA)	
Code	Description	Code	Description	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning
RG	Ring Type	20	Ø20 mm	50	50 A	1	1 A	0.1	Class 0.1	1	1 VA
BS	Busbar	30	Busbar width 30 mm	75	75 A	5	5 A	0.2	Class 0.2	1.5	1.5 VA
SC	Split Core	40	Busbar width 40 mm	100	100 A	M	mA	0.2S	Class 0.2S	2.5	2.5 VA
RC	Rectangular	60	Busbar width 60 mm	150	150 A	V	mV	0.5	Class 0.5	5	5 VA
SP	Special	80	Busbar width 80 mm	200	200 A	C	Custom	0.5S	Class 0.5S	10	10 VA
		100	Busbar width 100 mm	600	600 A			1	Class 1.0	15	15 VA
		3636	36 × 36 mm	1600	1600 A			3	Class 3.0	20	20 VA
		80120	80 × 120 mm	4000	4000 A			5P10	Protection	30	30 VA
								5P20	Protection		
								PX	Class PX		



EXAMPLE

RG-60-600/5-0.5-5



RG
Ring Type



60
Ø60 mm
Window



600/5
600/5 A
Ratio

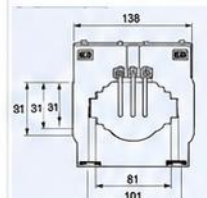
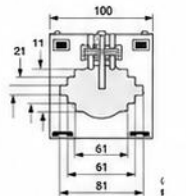
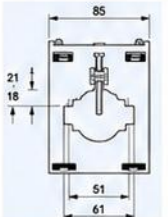
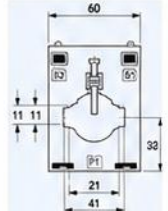
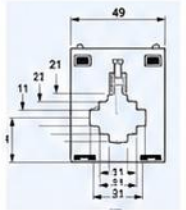
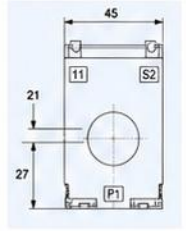


0.5
Accuracy
Class 0.5



5
5 VA
Burden

TYPE	SERIES	PRIMARY CURRENT (A)	SECONDARY CURRENT (A)	ACCURACY CLASS	BURDEN (VA)	MAX. SYSTEM VOLTAGE (kV)	APERTURE / BUSBAR SIZE
	HSCT-1 Series	40-300	5 1 333 mV 100 / 150 mV	0.5 1 3	1 – 5 2.5 – 10 5 – 15	0.72 / 3	Ø20 mm
	HSCT-2 Series	40-600	5 1 333 mV 100 / 150 mV	0.5 1 3	1 – 5 2.5 – 10 5 – 15	0.72 / 3	Ø24 mm Busbar 30 x 10 mm 20 x 20 mm
	HSCT-3 Series	100-600	5 1 333 mV 100 / 150 mV	0.2 0.5 1 3	1 – 5 2.5 – 10 5 – 15 10 – 20	0.72 / 3	Ø36 mm Busbar 40 x 10 mm 30 x 30 mm
	HSCT-4 Series	400A-1250A	5 1 333 mV 100 / 150 mV	0.25 0.5S 0.2 0.5 1	1 – 5 2.5 – 10 5 – 15 10 – 20 15 – 30	0.72 / 3	Ø45 mm Busbar 60 x 10 mm 50 x 30 mm
	HSCT-5 Series	800-1600A	5 1 333 mV 100 / 150 mV	0.25 0.5S 0.2 0.5 1	1 – 5 2.5 – 10 5 – 15 10 – 20 15 – 30	0.72 / 3	Ø60 mm Busbar 80 x 10 mm 50 x 30 mm
	HSCT-6 Series	800-4000A	5 1 333 mV 100 / 150 mV	0.25 0.5S 0.2 0.5 1	1 – 5 2.5 – 10 5 – 15 10 – 20 15 – 30	0.72 / 3	Ø85 mm Busbar 80 x 50 mm 100 x 30 mm



ACCURACY CLASSES

- Class 0.1
- Class 0.2
- Class 0.2S
- Class 0.5
- Class 0.5S
- 5P, 10P, PX
- Class 1
- Class 3

Other project-specific classes available on request.



TYPICAL BURDEN (VA)

- 1 VA
- 10 VA
- 30 VA
- 2.5 VA
- 15 VA
- 5 VA
- 20 VA

Selecting an appropriate burden ensures accuracy and avoids saturation.



STANDARDS

- IEC 61869-2
- BS 7626
- BS EN 60044-1
- IEC 60044-1

Manufactured in accordance with international standards.

**Coming
Soon..**

SPLIT CORE COMING SOON

HS Grup is expanding its current measurement solutions with Split Core Current Transformers, designed for easy installation, reliable performance, and maximum safety.



EASY INSTALLATION

Split core design allows quick and simple installation without disconnecting cables.



SAFE & RELIABLE

Ensures safe current measurement with high insulation and excellent performance.



HIGH ACCURACY

Engineered for precise measurement and stable operation in demanding applications.



WIDE APPLICATION

Suitable for energy monitoring, protection, automation, and power quality systems.



**SPLIT CORE,
COMING SOON**



SAFE
MEASUREMENT



PRECISION
ENGINEERING



QUALITY
ASSURANCE



BUILT FOR
PERFORMANCE