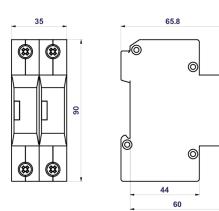


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HSA-720/2+0

- Surge arresters type T2+T3 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in LV power supply systems.
- The products consist of varistors with big discharge ability.
- Configurations 1+1 and 3+1 are additionally combined with a gas discharge tube which ensures zero leakage current through the PE conductor.
- Installed at the boundaries of LPZ 1 LPZ 3 into subsidiary switchboards and control panels.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- S indication specifies a version with remote monitoring.

Туре		HSA-720/2+0
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2, T3
System		TN-S
Number of poles		2
Rated operating AC voltage	U _N	600 V
Maximum continuous operating voltage AC	Uc	720 V
Maximum discharge current (8/20)	I _{max}	40 kA
Nominal discharge current for class II test (8/20)	l _n	15 kA
Open circuit voltage of the combination wave generator	U _{oc}	6 kV
Total discharge current (8/20) L+N->PE	I _{Total}	80 kA
Voltage protection level at In	Up	< 2.6 kV
Voltage protection level at U _{oc}	Up	< 2 kV
Temporary overvoltage test (TOV) for $t_T = 5 s$	UT	875 V
Temporary overvoltage test (TOV) for $t_T = 120 \text{ min}$	U _T	1 143 V
Response time	t _A	< 25 ns
Maximal back-up fuse		160 A gL/gG
Residual current	I _{PE}	≤ 600 μA
Short-circuit current rating at maximum back-up fuse	I _{SCCR}	60 kA _{rms}
Lightning protection zone		LPZ 1-2, LPZ 2-3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-53:2022 (doesn't apply to "V" connection) for T2	S	2.5 mm ² (L, N) 6 mm ² (PE, PEN)
Clamp fastening range (solid conductor)		$1.5 \div 25 \text{ mm}^2$
Clamp fastening range (stranded conductor)		$1.5 \div 16 \text{ mm}^2$
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		2 TE

Surge arresters T2+T3

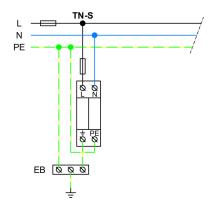


Туре		HSA-720/2+0
Operating position		Any
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Safety of Flammability of Plastic Materials		UL 94
Application standards		
Protection against lightning		IEC 62305:2010
Selection and erection of electrical equipment – Switchgear and controlgear		HD 60364-5-53:2022
Selection and application principles for SPDs connected to low-voltage power systems		CLC/TS 61643-12:2009
Ordering, packaging and additional data		
Mass	m	222 g
Mass (including the packaging)	m	236 g
Packaging dimensions (H x W x D)		45 x 102 x 74 mm
Packaging value	V	0.34 dm ³
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681115749
Art. number		24 603

The link in the QR code leads to the online presentation of the **HSA-720/2+0**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**



Application wiring diagram (installation)



Internal diagram

