





## HSA-275 Module

- Removable modules for surge arresters type T2+T3.
- Ensure the equipotential bonding and reduce switching, induced and residual overvoltage in single-phase and three-phase LV power supply systems.
- Installed at the boundaries of LPZ 1 LPZ 3 into subsidiary switchboards and control panels.
- The products consist of varistors with big discharge ability.

Test class according to EN 61643-11:2012 (IEC 61643-11:2011)T2, T3Maximum continuous operating voltage ACUc375 VMaximum discharge current (8/20)Imax50 kANominal discharge current for class II test (8/20)In20 ccOpen circuit voltage of the combination wave generatorUcc6 kVVoltage protection level at InUp<1.25 kVSpare module for27 080, 27 090, 27 081, 27 091, 27 082, 27092, 27 083, 27 093, 27 084, 27 094, 27 085, 27 095,	Туре		HSA-275 Module
Maximum discharge current (8/20)Imax50 kANominal discharge current for class II test (8/20)I,20 kAOpen circuit voltage of the combination wave generatorUoc6 kVVoltage protection level at I,Up<1.25 kV	Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2, T3
Nominal discharge current for class II test (8/20)In I20 kAOpen circuit voltage of the combination wave generator $U_{oc}$ 6 kVVoltage protection level at In $U_p$ <1.25 kV	Maximum continuous operating voltage AC	U <sub>c</sub>	275 V
Open circuit voltage of the combination wave generatorUncIntIntOpen circuit voltage of the combination wave generatorUp< 1.25 kV	Maximum discharge current (8/20)	I <sub>max</sub>	50 kA
Voltage protection level at InUnUnSpare module for27 080, 27 090, 27 081, 27 091, 27 082, 27 092, 27 083, 27 093, 27 084, 27 094, 27 085, 27 095Designed according to standardsIEC 61643-11:2011Requirements and test methods for SPDs connected to low-voltage power systemsIEC 61643-11:2011Safety of Flammability of Plastic MaterialsUL 94Application standardsUL 94Protection against lightningIEC 62305:2010Selection and erection of electrical equipment – Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-11:2019Ordering, packaging and additional datam42 gMassm42 gMass (including the packaging)m53 gPackaging dimensions (H x W x D)V0.19 dm³Packaging valueV0.19 dm³Customs tariff no.EX5083010EAN code8590681116029	Nominal discharge current for class II test (8/20)	I <sub>n</sub>	20 kA
Spare module for27 080, 27 090, 27 081, 27 091, 27 082, 27 092, 27 083, 27 093, 27 084, 27 094, 27 085, 27 095Designed according to standardsURequirements and test methods for SPDs connected to low-voltage power systemsIEC 61643-11:2011Safety of Flammability of Plastic MaterialsUL 94Application standardsUL 94Protection against lightningIEC 62305:2010Selection and erection of electrical equipment - Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-11:2009Ordering, packaging and additional datamMassmMass (including the packaging)mPackaging dimensions (H x W x D)mPackaging valueVOutsoms tariff no.VEAN code8590681116029	Open circuit voltage of the combination wave generator	U <sub>oc</sub>	6 kV
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Requirements and test methods for SPDs connected to low-voltage power systemsIEC 61643-11:2011Safety of Flammability of Plastic MaterialsUL 94Application standardsUL 94Protection against lightningIEC 62305:2010Selection and erection of electrical equipment – Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datamMassmMass (including the packaging)mPackaging dimensions (H x W x D)MPackaging valueVOut of the systemVCustoms tariff no.8590681116029EAN code8590681116029	Spare module for		092, 27 083, 27 093, 27 084, 27 094, 27 085,
Safety of Flammability of Plastic MaterialsUL 94Application standardsUL 94Protection against lightningIEC 62305:2010Selection and erection of electrical equipment – Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datam42 gMassm53 gPackaging dimensions (H x W x D)m53 gPackaging valueV0.19 dm³Customs tariff no.I8550681116029EAN code8590681116029	Designed according to standards		
Application standardsProtection against lightningIEC 62305:2010Selection and erection of electrical equipment - Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datam42 gMassm53 gPackaging dimensions (H x W x D)m53 gPackaging valueV0.19 dm³Customs tariff no.8590681116029	Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Protection against lightningIEC 62305:2010Selection and erection of electrical equipment – Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datamMassmMass (including the packaging)mPackaging dimensions (H x W x D)mPackaging valueVOutpering, packaging valueVCustoms tariff no.§EAN code8590681116029	Safety of Flammability of Plastic Materials		UL 94
Selection and erection of electrical equipment – Switchgear and controlgearHD 60364-5-53:2022Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datam42 gMassm53 gPackaging dimensions (H x W x D)m53 gPackaging valueV0.19 dm³Customs tariff no.85363010EAN code8590681116029	Application standards		
Selection and application principles for SPDs connected to low-voltage power systemsCLC/TS 61643-12:2009Ordering, packaging and additional datam42 gMassm42 gMass (including the packaging)m53 gPackaging dimensions (H x W x D)e26 x 98 x 73 mmPackaging valueV0.19 dm³Customs tariff no.85363010EAN code*8590681116029	Protection against lightning		IEC 62305:2010
Ordering, packaging and additional dataMassm42 gMass (including the packaging)m53 gPackaging dimensions (H x W x D)26 x 98 x 73 mmPackaging valueV0.19 dm³Customs tariff no.85363010EAN code8590681116029	Selection and erection of electrical equipment – Switchgear and controlgear		HD 60364-5-53:2022
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Mass (including the packaging)m53 gPackaging dimensions (H x W x D)26 x 98 x 73 mmPackaging valueV0.19 dm³Customs tariff no.85363010EAN code8590681116029	Ordering, packaging and additional data		
Packaging dimensions (H x W x D) 26 x 98 x 73 mm   Packaging value V 0.19 dm <sup>3</sup> Customs tariff no. 85363010   EAN code 8590681116029	Mass	m	42 g
Packaging valueV0.19 dm³Customs tariff no.85363010EAN code8590681116029	Mass (including the packaging)	m	53 g
Customs tariff no. 85363010   EAN code 8590681116029	Packaging dimensions (H x W x D)		26 x 98 x 73 mm
EAN code 8590681116029	Packaging value	V	0.19 dm <sup>3</sup>
	Customs tariff no.		85363010
Art. number 27 086	EAN code		8590681116029
	Art. number		27 086



**The link in the QR code** leads to the online presentation of the **HSA-275 Module**. 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** 





## Internal diagram

