



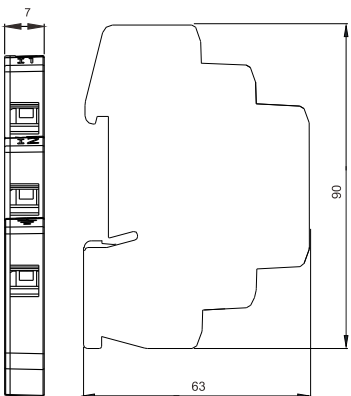
Signal surge protector YZ HA-24WS



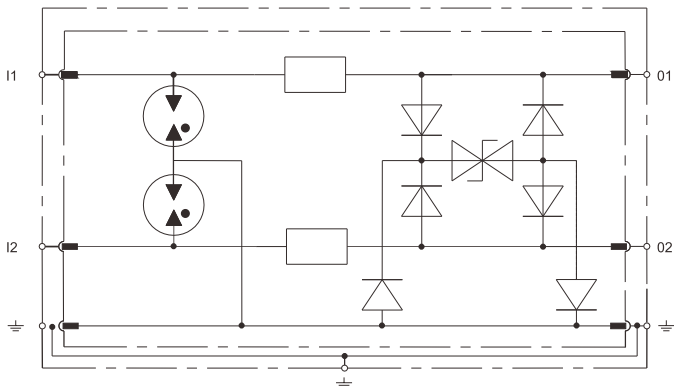
Description

DIN rail, compact SPD with slim size and single pair lines for protecting high-frequency transmission system at boundaries from LPZ 0B-2 and higher

Dimension drawing



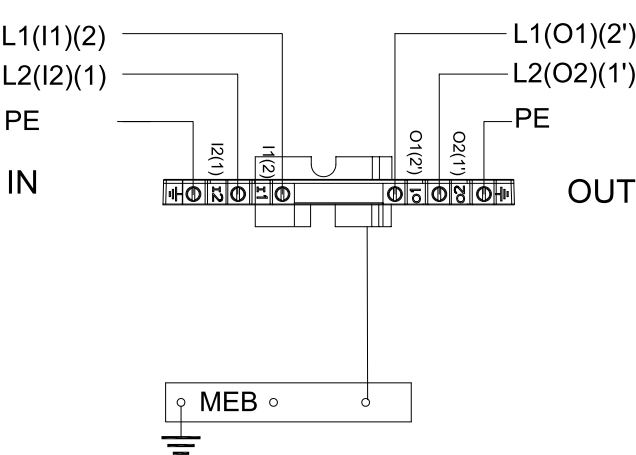
Circuit diagram



Features

- Integrated module
- Low residual pressure
- long lasting
- Small and ultra-thin

Wiring diagram



Electrical

Product model	YZ HA-24WS
Test according to	IEC 61643-21/EN 61643-21/GB/T18802.21
SPD Class	C2,D1
Number of ports	2
Technology	GDT & TVS
Nominal Voltage (U_N)	24 V
Max. continuous operating d.c. voltage (U_c)	33 V
Max. continuous operating a.c. voltage (U_c)	23.3 V
Rated load current (45°C)(I_L)	1.0 A
D1 lightning impulse current (10/350 μ s) per line (I_{imp})	2 kA
C2 Nominal discharge current (8/20 μ s) per line (I_n)	10 kA
C2 Nominal discharge current (8/20 μ s) total (I_n)	20 kA
Voltage protection level (I_n C2)(U_p)	65 V (line-line), 65 V (line-PE)
Voltage protection level (1 kV/ μ sC3) (U_p)	47 V (line-line), 47 V (line-PE)
Series impedance perline	1.0 ohm
Capacitance	≤ 25 nF (line-line), ≤ 25 nF (line-PE)
Cut-off frequency line-PE	100 MHz

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (H×W×D)	90 mm x 7 mm x 63 mm
Cross-sectional area (max.)	flexible: 2.5 mm ²
Cross-sectional area (min.)	0.5 mm ²
Stripping length terminals	5-7 mm
Torque contacts	0.3 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (No condensation)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94 V-2
Product code	913005



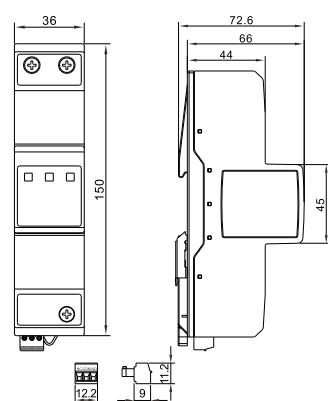
Class I+class II surge protector YSPD-25HA-760-R/1P



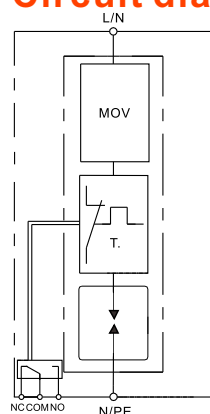
Description

Integrated I+II/1+2 level surge protector, usually installed in lightning protection zone LPZ 0_B-2 and subsequent zones, is widely used in the protection of transformers, generators, photovoltaic and wind power generation systems.

Dimension drawing



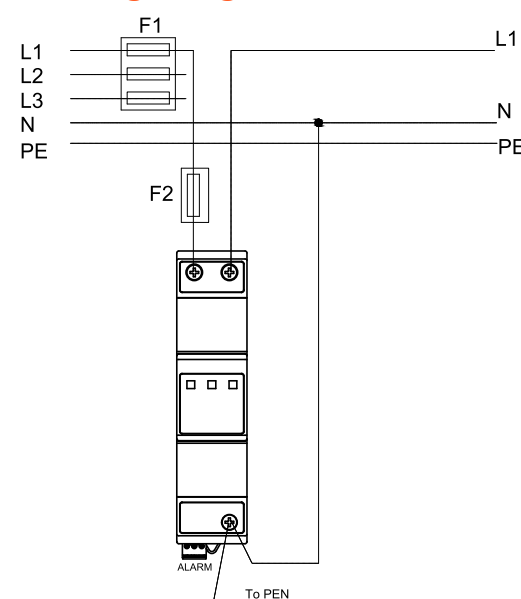
Circuit diagram



Features

- Energy automatic matching type
- Main circuit tripping is safer
- No freewheeling, no leakage current
- Fault indication Remote signal alarm

Wiring diagram



Electrical

Product model	YSPD-25HA-760-R/1P
SPD according to IEC/EN 61643-1/11	Class I+Class II
SPD according to EN 61643-11	Type 1+Type 2
SPD according to GB/T 18802.11	Class I+Class II
Number of ports	1
Technology	MOV & GAP
Nominal Voltage (U _N)	690 Vac
Max. continuous operating voltage (U _C)	760 Vac
Nominal discharge current (8/20μs) (I _n)	25 kA
Lightning impulse current (10/350μs) (I _{imp})	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Charge (Q)	12.5 As
Follow current extinguishing capability (I _{fi})	Infinite
Voltage protection level (U _P)	3.5 kV
Voltage protection level for 5 kA (U _P)	2.5 kV
Response time (t _A)	≤ 100 ns
Max. overcurrent protection	≤ 250 AgL/gG
Short-circuit withstand capability (I _{SCCR})	25 kArms
Temporary overvoltage (TOV) (U _T)	1000 V/5s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	150 mm × 36 mm × 72 mm
Cross-sectional area (max.)	25 mm ² stranded / flexible
Cross-sectional area (min.)	1.5 mm ² stranded / flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Black / Red
Type of Changeover contact	Changeover contact
Switching capacity	Max(125 Vac/1 A), Min(5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T _u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911113



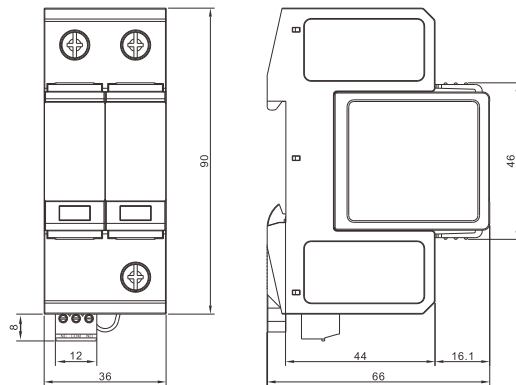
Single-phase Class II surge protector YSPD-40C-275-R/1PN



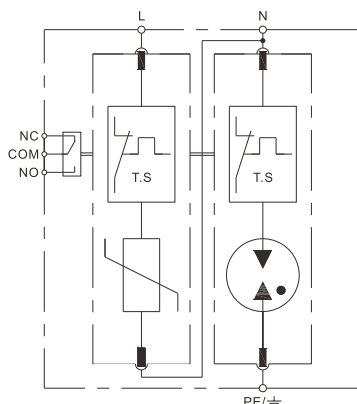
Description

Pluggable shockproof module, integrated base, Class II/Class 2 surge protector, suitable for TN and TT power distribution systems, usually installed in lightning protection zones LPZ 0B-3 and subsequent zones.

Dimension drawing



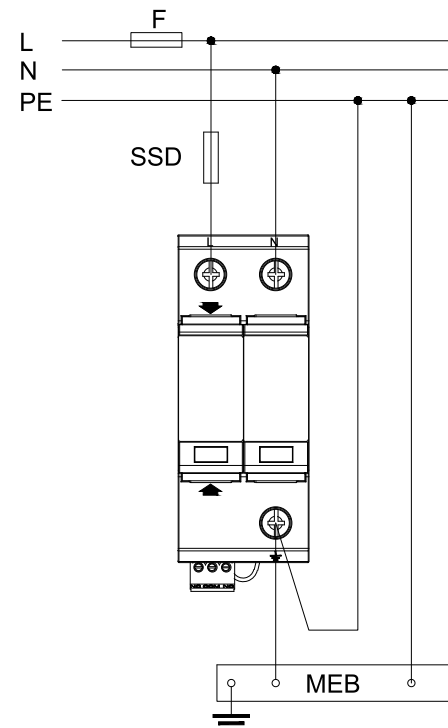
Circuit diagram



Features

- Unique arc interruption technology
- Plug-in replacement is convenient
- Fault indication Remote signal alarm
- Can directly protect terminal equipment

Wiring diagram



Electrical

Product model	YSPD-40C-275-R/1PN
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	MOV&GDT
Nominal Voltage (U_N)	230/400 V
Max. continuous operating voltage (U_C)	275 Vac(L-N), 255 Vac(N-PE)
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Voltage protection level (U_P)	1.3 kV(L-N), 1.5 kV(N-PE)
Voltage protection level for 5 kA (U_P)	1.0 kV
Response time (t_A)	≤ 25 ns
Special backup protection device for surge	ESCB-40TC/2P
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	337 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm $\times$ 36 mm $\times$ 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max(125 Vac/1 A), Min(5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911525



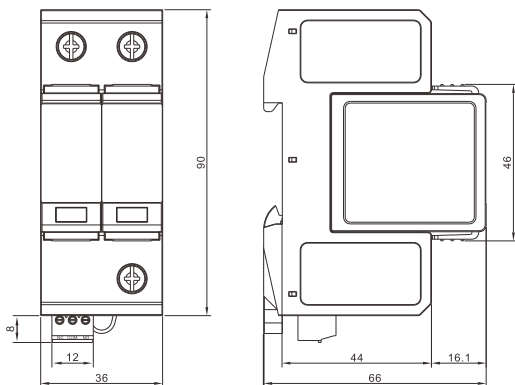
Class II surge protector YSPD-40C-275-R/2P



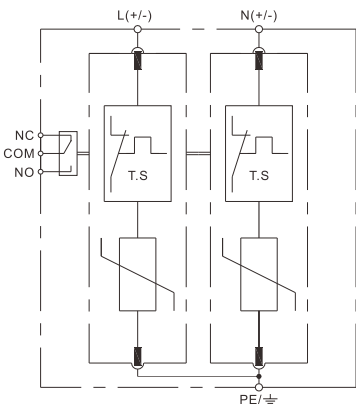
Description

Pluggable shockproof module, integrated base, Class II/Class 2 surge protector, suitable for TN power distribution systems, usually installed in lightning protection zones LPZ 0B-3 and subsequent zones.

Dimension drawing



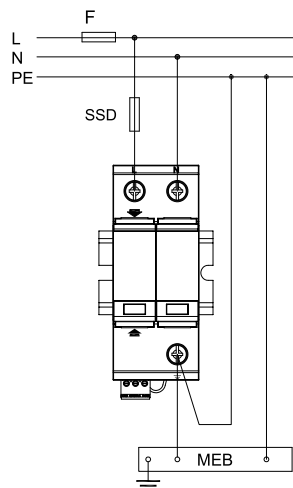
Circuit diagram



Features

- Unique arc interruption technology
- Plug-in replacement is convenient
- Fault indication Remote signal alarm
- Can directly protect terminal equipment

Wiring diagram



Electrical

Product model	YSPD-40C-275-R/2P
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	MOV
Nominal Voltage (U_N)	230/400 Vac
Max. continuous operating voltage (U_C)	275 Vac
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Voltage protection level (U_P)	1.3 kV
Voltage protection level for 5 kA (U_{P5})	1.0 kV
Response time (t_A)	≤ 25 ns
Special backup protection device for surge	ESCB-40TC/2P
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	337 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm $\times$ 36 mm $\times$ 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max(125 Vac/1 A),Min(5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic,UL 94V-0
Product code	911225



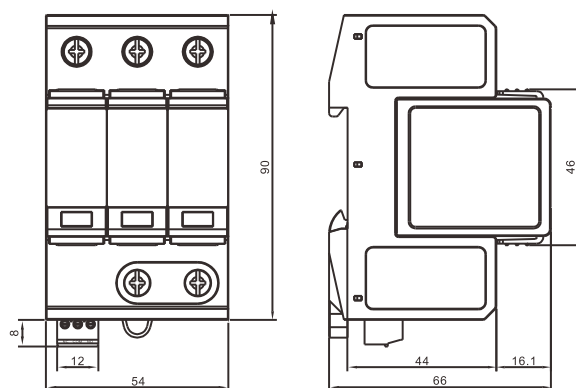
Class II surge protector YSPD-40C-275-R/3P



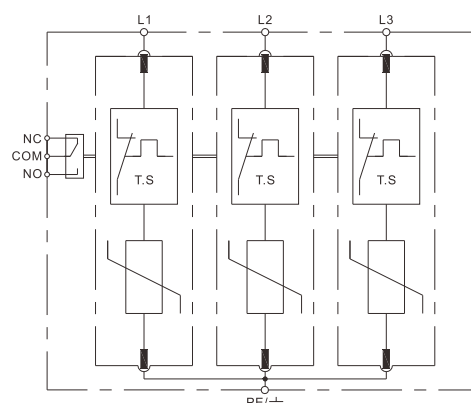
Description

Pluggable shockproof module, integrated base, Class II/Class 2 surge protector, suitable for TNC and IT power distribution systems, usually installed in lightning protection zones LPZ 0B-3 and subsequent zones.

Dimension drawing



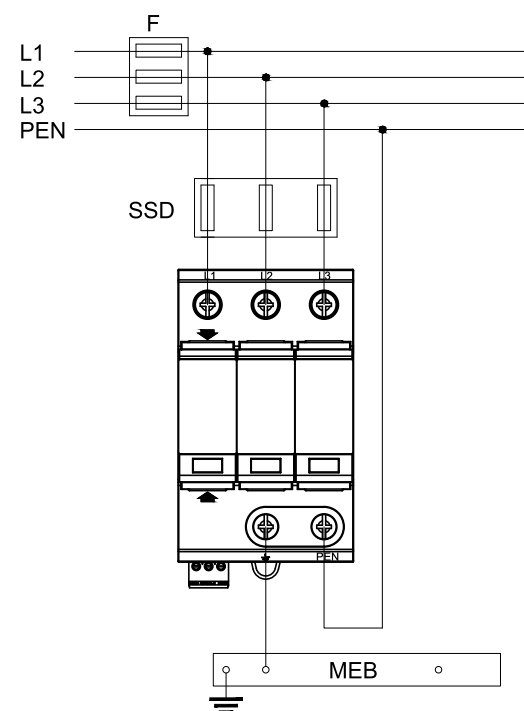
Circuit diagram



Features

- Unique arc interruption technology
- Plug-in replacement is convenient
- Fault indication Remote signal alarm
- Can directly protect terminal equipment

Wiring diagram



Electrical

Product model	YSPD-40C-275-R/3P
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	MOV
Nominal Voltage (U_N)	230/400 Vac
Max. continuous operating voltage (U_C)	275 Vac
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Voltage protection level (U_P)	1.3 kV
Voltage protection level for 5 kA (U_{P5})	1.0 kV
Response time (t_A)	≤ 25 ns
Special backup protection device for surge	ESCB-40TC/3P
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	337 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm $\times$ 54 mm $\times$ 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max(125 Vac/1 A), Min(5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911325



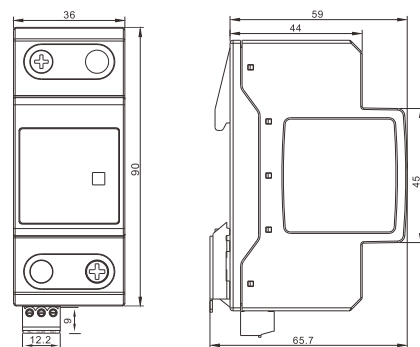
Class II surge protector YSPD-120B-600-R/1P



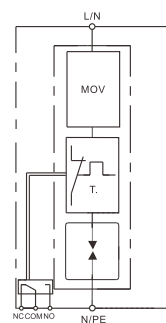
Description

Composite type II/2 level surge protector with high voltage and large current discharge capacity is suitable for a variety of power distribution systems. It is usually installed in lightning protection zones LPZ 0B-3 and subsequent zones, and is mostly used for the protection of wind power converters and generators.

Dimension drawing



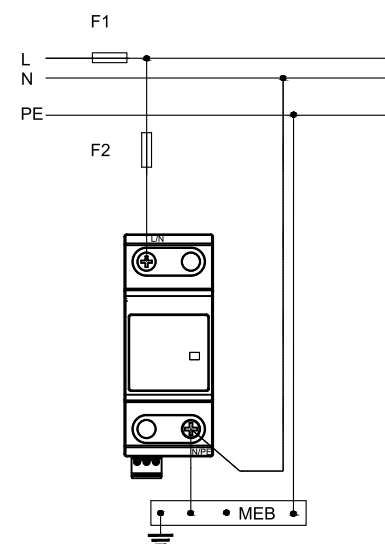
Circuit diagram



Features

- High voltage and high current capability
- No follow-through and no leakage current
- Reliable thermal disconnect
- Fault indication remote signal alarm

Wiring diagram



Electrical

Product model	YSPD-120B-600-R/1P
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	II级
Number of ports	1
Technology	MOV
Nominal Voltage (U _N)	600 Vac
Max. continuous operating voltage (U _C)	600 Vac
Nominal discharge current (8/20μs) (I _N)	60 kA
Max. discharge current (8/20μs) (I _{max})	120 kA
Follow current extinguishing capability (I _{fi})	Infinite
Voltage protection level (U _P)	2.8 kV
Voltage protection level for 5kA (U _P)	2.0 kV
Response time (t _A)	≤ 25 ns
Max. overcurrent protection	≤ 200 AgL/gG
Short-circuit withstand capability (I _{SCCR})	25 kArms
Temporary overvoltage (TOV) (U _T)	690 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm x 36 mm x 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max (125 Vac / 1 A), Min (5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T _u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911147



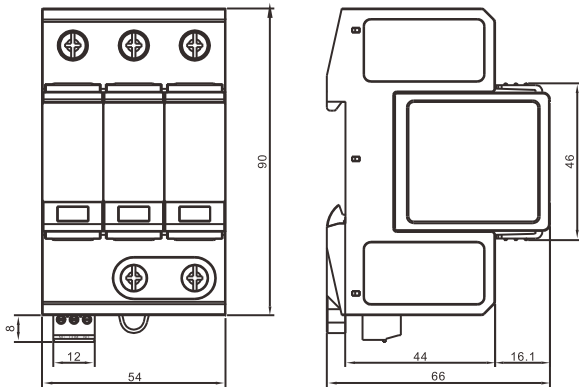
Class II surge protector YSPD-25D-760-R/3P



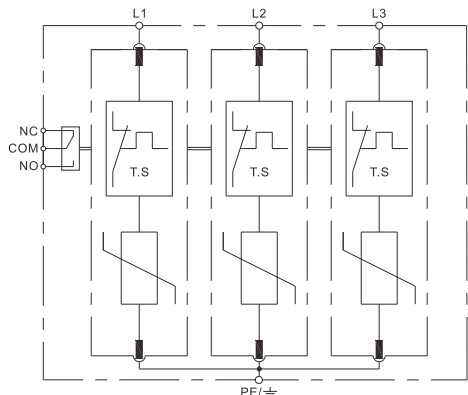
Description

Pluggable shockproof module, integrated base, Class II/Class 2 surge protector, suitable for TN and TT power distribution systems, usually installed in lightning protection zones LPZ 0B-3 and subsequent zones.

Dimension drawing



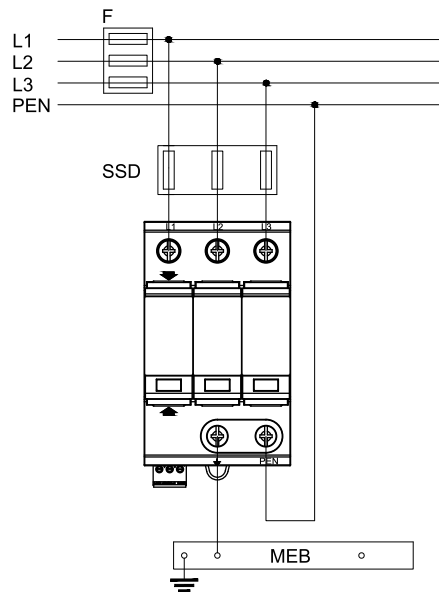
Circuit diagram



Features

- Unique arc interruption technology
- Plug-in replacement is convenient
- Fault indication Remote signal alarm
- Can directly protect terminal equipment

Wiring diagram



Electrical

Product model	YSPD-25D-760-R/3P
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	MOV
Nominal Voltage (U_N)	400/690 Vac
Max. continuous operating voltage (U_C)	760 Vac
Nominal discharge current (8/20 μ s) (I_n)	15 kA
Max. discharge current (8/20 μ s) (I_{max})	25 kA
Voltage protection level (U_P)	3.0 kV
Voltage protection level for 5 kA (U_{P5})	2.5 kV
Response time (t_A)	≤ 25 ns
Max. overcurrent protection	≤ 100 AgL/gG
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	950 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm $\times$ 54 mm $\times$ 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	Max(125 Vac/1 A), Min(5 V/1 mA)
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911320



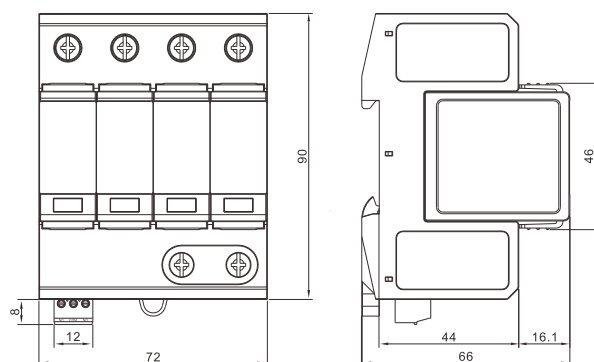
Class II surge protector YSPD-25D-760G-R/3P



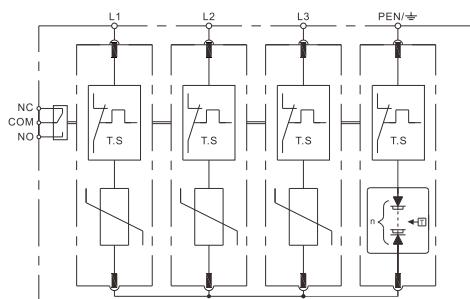
Description

Pluggable shockproof module, integrated base, Class II/Class 2 surge protector, with dedicated isolation module, can effectively protect against harmonic interference, suitable for TNC power distribution system with harsh power grid environment, usually installed in lightning protection zone LPZ 0B-3 and subsequent zones.

Dimension drawing



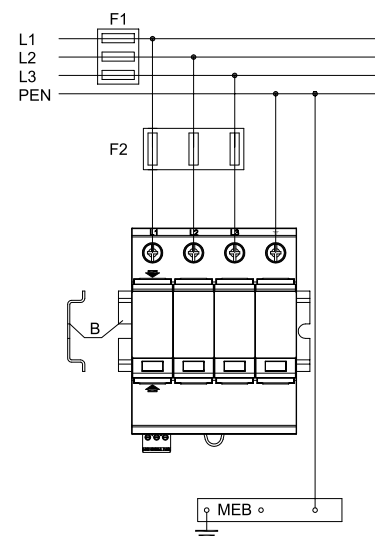
Circuit diagram



Features

- long lasting
- Harmonic Isolation Technology
- Unique arc interruption technology
- Reliable temperature control tripping technology
- Low residual pressure, good protection effect
- Fault indication Remote signal alarm

Wiring diagram



Electrical

Product model	YSPD-25D-760G-R/3P
SPD according to IEC 61643-1/11	Class II
SPD according to EN 61643-11	Type 2
SPD according to GB/T 18802.11	Class II
Number of ports	1
Technology	MOV&CDGG
Nominal Voltage (U_N)	400/690 Vac
Max. continuous operating voltage (U_C)	760 Vac
Nominal discharge current (8/20 μ s) (I_n)	15 kA
Max. discharge current (8/20 μ s) (I_{max})	25 kA
Voltage protection level (U_P)	4.0 kV
Voltage protection level for 5 kA (U_{P5})	3.0 kV
Response time (t_A)	≤ 100 ns
Max. overcurrent protection	≤ 100 AgL/gG
Short-circuit withstand capability (I_{SCCR})	25 kArms
Temporary overvoltage (TOV) (U_T)	1200 V/5 s
TOV characteristic	Withstand

Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (HxWxD)	90 mm $\times$ 72 mm $\times$ 66 mm
Cross-sectional area (max.)	25 mm ² stranded/flexible
Cross-sectional area (min.)	1.5 mm ² stranded/flexible
Stripping length terminals	10 mm
Torque contacts	3 N*m

Indication

Operating status/fault indication	Green / red
Type of Changeover contact	Changeover contact
Switching capacity	125 Vac/1 A, 125 Vdc/0.2 A
Cross-sectional area (max.)	1.5 mm ²
Stripping length for indication terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

Environmental

Location category	Indoor only
Operation temperature range (T_u)	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911321