

داهش - 증명서 - Certificat - Сертификат - 證明書

Verification of Compliance



No. EC.1282.OP130307.BEW0250

Certificate's Holder: Engineering Power Systems International Limited
Ghazir Main Road - Amarat Bldg.
Kfarhabab - Lebanon

Product: Surge Protective Device
Model(s): EP-200, EP-160, EP-80, EP-40, EP-20,
EPPV3-1000T1, EPPV3-1000, EPPV3-1000GD,
EP-2in1, EP-AD2, EP-AD4, EP-BNC

Directives: 2006/95/EC Low Voltage

Standards: IEC 61643-1:2005
EN 61643-11:2012
EN 61643-21:2001/A1:2009/A2:2013
Fpr EN 50539-11:2012

Remark: This Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s). Other relevant Directives have to be observed in case they are applicable. This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s). This certificate can be checked for validity at www.entecerma.org

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Certification Chief Manager
Tim Mahan



Expiry date MARCH 2019

Certification Deputy Manager
Jane Russell



Ente Certificazione Macchine Ltd.

Suite 6 - 313-314 Upper Street - London N1 2XQ - UK

+44 (0) 207 317 0631 ☎ +44 (0) 207 317 0610 certification@entecerma.org www.entecerma.org

EPSI



EPSI

Engineering Power Systems International Limited

Kfarhabab-Lebanon
Ghazir Main Road-Amarat Bldg.
Tel :+961 9 854572/73
Fax:+961 9 854673
Email:info@epslebanon.com
Website:www.epslebanon.com

Catalogue for Surge Protective Device

www.epslebanon.com



EPSI

Let all the circuits
get surge protected

www.epslebanon.com

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EPSI

Let all the circuits
get surge protected

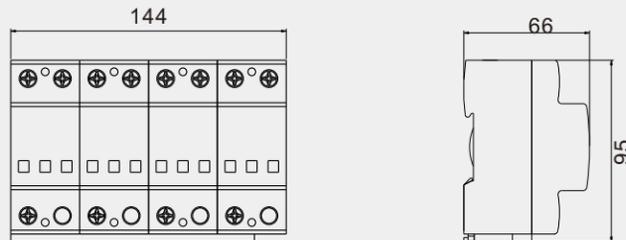
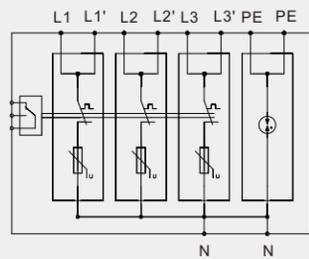
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Surge Arrester

Surge Arrester

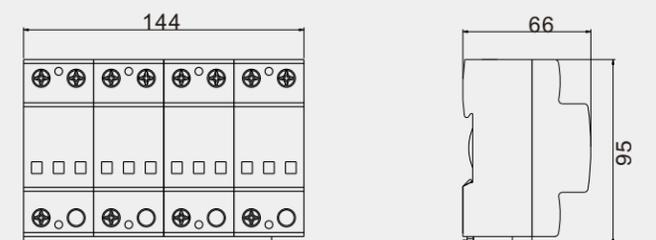
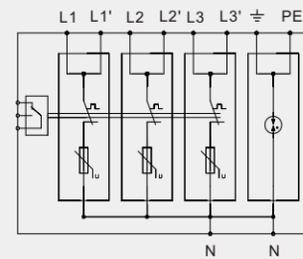
EP 160 3+1
Surge Arrester



3+1 surge arresters is suitable for TT or TN-S system.

		EP 160 3+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	80kA
Maximum discharge current (8/20 μ s)	I _{max}	160kA
Voltage protection level (L-N)	Up	2.2kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		300A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Non/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 200 3+1

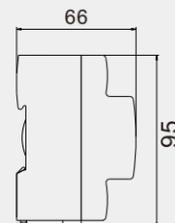
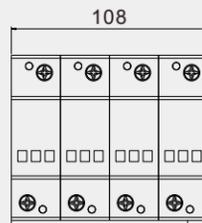
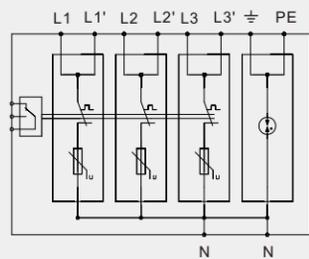


3+1 surge arresters is suitable for TT or TN-S system.

		EP 200 3+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	100kA
Maximum discharge current (8/20 μ s)	I _{max}	200kA
Voltage protection level (L-N)	Up	2.5kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		350A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Non/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 803+1

Type 2 Surge Arrester

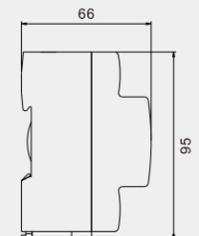
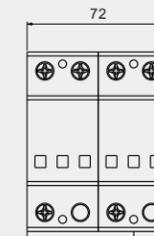
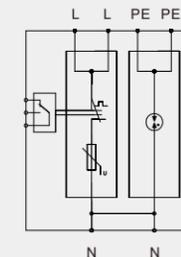


3+1 surge arresters is suitable for TT or TN-S system.

		EP 803+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	40kA
Maximum discharge current (8/20 μ s)	I _{max}	80kA
Voltage protection level (L-N)	Up	1.6kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		200A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Non/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94 - V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 801+1

Type 2 Surge Arrester

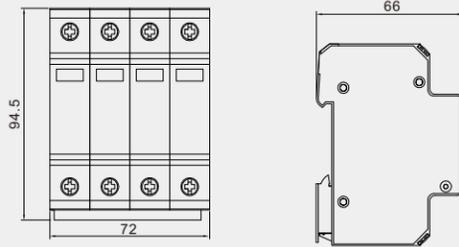
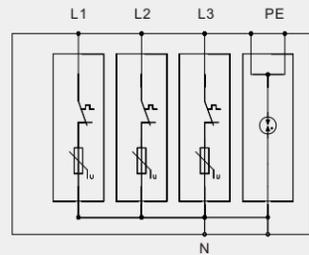


1+1 surge arresters is suitable for TT or TN-S system.

		EP 801+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	40kA
Maximum discharge current (8/20 μ s)	I _{max}	80kA
Voltage protection level (L-N)	Up	1.6kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		200A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Non/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94 - V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 403+1

Type 2 Surge Arrester

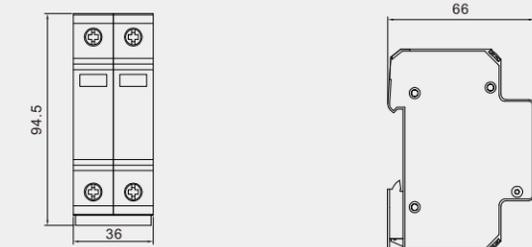
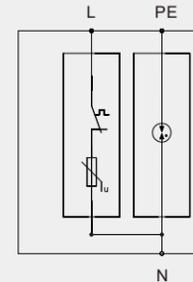


3+1 surge arresters is suitable for TT or TN-S system.

		EP 40 3+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	20kA
Maximum discharge current (8/20 μ s)	I _{max}	40kA
Voltage protection level (L-N)	Up	1.3kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		125A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 401+1

Type 2 Surge Arrester

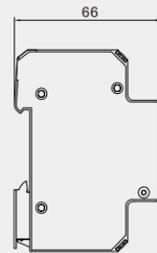
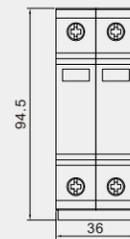
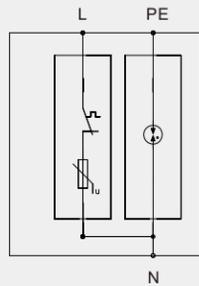


1+1 surge arresters is suitable for TT or TN-S system.

		EP 40 1+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	20kA
Maximum discharge current (8/20 μ s)	I _{max}	40kA
Voltage protection level (L-N)	Up	1.3kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		125A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

EP 201+1

Type 2 Surge Arrester

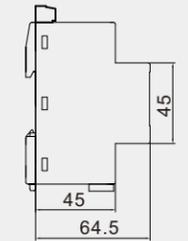
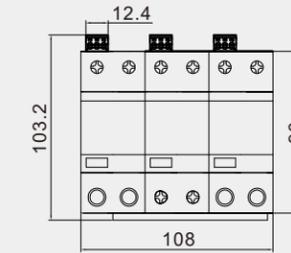
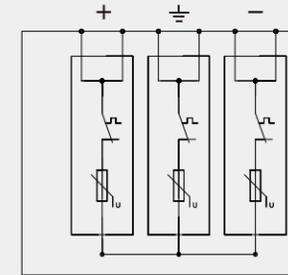


□ 1+1 surge arresters is suitable for TT or TN-S system.

		EP 20 1+1
According to IEC61643-11		Type 2
Max. continuous operation AC voltage	Uc	275V AC
Max. continuous operation AC voltage (N-PE)	Uc	255V
Norminal discharge current (8/20 μ s)	In	10kA
Maximum discharge current (8/20 μ s)	I _{max}	20kA
Voltage protection level (L-N)	Up	1.2kV
Voltage protection level (N-PE)	Up	1.5kV
Maximum backup fuse		63A gL
Response time (L-N)	tA	25ns
Response time (N-PE)	tA	100ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

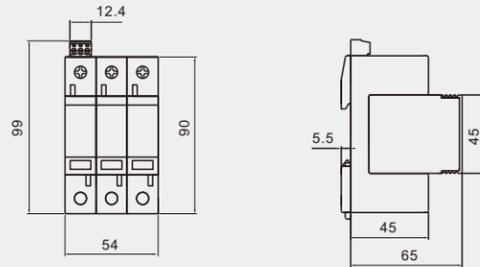
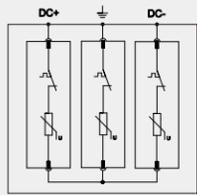
EPPV3 1000 T1

Type 2 Surge Arrester

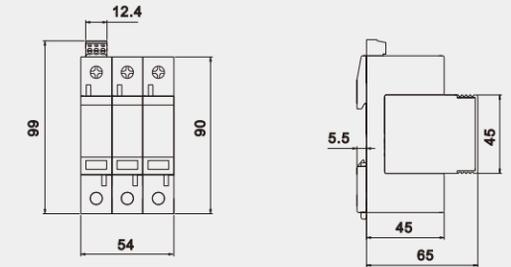
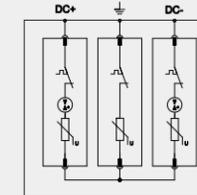


		EPPV3 1000 T1
According to EN50539-11		Type 1
Max. continuous operation AC voltage	Uc	1000V DC
Lightning Impulse voltage	I _{imp}	12.5kA
Lightning Impulse voltage	I _n	30kA
Max. discharge current (8/20 μ s)	I _{max}	100kA
Voltage protection level	Up	3.8kV
Rated Short Circuit Current	I _{scpv}	1000A
Maximum backup fuse		250A gL
Response time (L-N)	tA	25ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable

EPPV3 1000
PV Surge Arrester



EPPV3 1000 GD
PV Surge Arrester



EPPV3 1000

According to EN50539-11		Type 2
Max. continuous operation DC voltage	Uc	1000V DC
Norminal discharge current (8/20 μ s)	In	20kA
Maximum discharge current (8/20 μ s)	I _{max}	40kA
Voltage protection level (L-N)	Up	3.8kV
Rated Short Circuit Current	I _{scpv}	1000A
Maximum backup fuse		125A gL
Response time (L-N)	tA	25ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable
Dimension (LxWxH)		90x70x54mm

EPPV3 1000 GD

According to EN50539-11		Type 2
Max. continuous operation DC voltage	Uc	1000V DC
Norminal discharge current (8/20 μ s)	In	20kA
Maximum discharge current (8/20 μ s)	I _{max}	40kA
Voltage protection level (L-N)	Up	4.0kV
Rated Short Circuit Current	I _{scpv}	1000A
Maximum backup fuse		125A gL
Response time (L-N)	tA	25ns
Environment temperature	Tu	-40°C~80°C
Status indicator		Green/Red
Mounting		35mm Din Rail
Cross section of wire (Min.)		4mm ²
Cross section of wire (Max.)		35mm ²
Casing material		Thermal plastic UL94-V0
Degree of protection		IP20
Remote Signalling		Selectable
Dimension (LxWxH)		90x70x54mm

EP-2in1

SPD for telephone and 56VDC



				EP-2in1
				IEC61643-21
Norminal Voltage	for Power	Un		56V DC
Max. continous operation DC voltage	for power	Uc		68V DC
Max. continous operation AC voltage	for power	Uc		50V AC
Norminal Current IL	Power	A		0.5A
Nominal discharge current	Power	In		5kV
Voltage Protection Level	Power	Up		250V
Max. continous operation AC voltage	for RJ11	Uc		12V AC
Norminal Current IL	RJ11	A		0.1A
C2 Nominal discharge current (8/20us)	L-Shield	In		1.5kA
C2 Nominal discharge current (8/20us)	Shield-PG	In		3kA
Voltage Protection Level L-Shield		Up		30V
Voltage Protection Level L/Shield-PG		Up		500V
Response time L-shield		tA		<1ns
Response time Shield-PG		tA		<100ns
Environment temperature		Tu		-40°C~80°C
Connection				Terminal block for power and RJ11 socket for telephone
Bandwidth				10Mbps
Insertion Loss				<0.3dB
Enclosure material				Thermal plastic UL94 – V0
Degree of protection				IP20

EP-AD2

2 lines Audio Surge Arrester



			2 lines Audio
			TIEC61643-21
Standard			
Norminal Voltage	Un		110V
Max. continous operation DC voltage	Uc		130V DC
Max. continous operation AC voltage for power	Uc		100V AC
Norminal Current IL	A		0.5A
C2 Nominal discharge current (8/20us) per line	In		5kA
Voltage Protection Level Line-Line	Up		200V
Voltage Protection Level Line-PG	Up		600V
Response time L-shield	tA		<1ns
Response time Shield-PG	tA		<100ns
Environment temperature	Tu		-40°C~80°C
Connection			Terminal Block
Bandwidth			10Mbps
Insertion Loss			<0.3dB
Enclosure material			Aluminium Alloy
Degree of protection			IP20

EP-AD4

4 lines Audio Surge Arrester



Standard		4 lines Audio
Standard		TIEC61643-21
Norminal Voltage	Un	110V
Max. continous operation DC voltage	Uc	130V DC
Max. continous operation AC voltage for power	Uc	100V AC
Norminal Current IL	A	0.5A
C2 Nominal discharge current (8/20us) per line	In	5kA
Voltage Protection Level Line-Line	Up	200V
Voltage Protection Level Line-PG	Up	600V
Response time L-shield	tA	<1ns
Response time Shield-PG	tA	<100ns
Environment temperature	Tu	-40°C~80°C
Connection		Terminal Block
Bandwidth		10Mbps
Insertion Loss		<0.3dB
Enclosure material		Aluminium Alloy
Degree of protection		IP20

EP-BNC

SPD for Vedio



Standard		EP-BNC
Standard		IEC61643-21
Norminal Voltage	Un	5V
Max. continous operation DC voltage	Uc	6V DC
Max. continous operation AC voltage	Uc	4V DC
Norminal Current IL	A	0.5A
C2 Nominal discharge current (8/20us) L-Shield	In	5kA
C2 Nominal discharge current (8/20us) Shield-PG	In	10kA
Voltage Protection Level L-Shield	Up	30V
Voltage Protection Level L/Shield-PG	Up	500V
Response time L-shield	tA	<1ns
Response time Shield-PG	tA	<100ns
Environment temperature	Tu	-40°C~80°C
Connection		BNC socket
Bandwidth		10Mbps
Insertion Loss		<0.3dB
Impedience		50 Ohm
Enclosure material		Aluminium Alloy
Degree of protection		IP20