SPD Selection Guide

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By the Numbers: The Threat of Electrical Disturbances

$1.7 trillion in data is lost each year due to lightning and surge events

43 lightning-related deaths occurred each year in the U.S. over the last 3 decades

$119 billion is lost by the U.S. economy each year due to power quality disturbances

90% of individuals struck by lightning were physically impaired, while 10 died

5-10x the normal system voltage is exhibited in a single voltage impulse.
Many plants and production facilities experience thousands of transient impulses per hour.

30,000 amps of current in a single lightning bolt

23 million cloud-to-ground lightning strikes occur each year

$26 billion is spent annually on equipment repairs and lost productivity caused by transient overvoltage

Sources: plantengineering.com, Consortium for Electric Infrastructure to Support a Digital Society (CEIDS), National Weather Service, Lightning Protection Institute.

Why DEHN

Is Your Business at Risk?

The short answer is yes. If your company is operating with unprotected electrical infrastructure, your systems are exposed to the potentially catastrophic effects of lightning and surge events.

As the data shows, any electrical disruption to your power quality, including transient voltage from your own internal systems, can be detrimental to the success and growth of your equipment manufacturing operations.

Luckily, you don't have to wait until the damage is done to address gaps in your safety systems. DEHN Inc. provides proactive solutions for equipment manufacturers across many industries.

The first step towards a safer work environment is identifying existing gaps and threats to your company. When you work with DEHN, we'll perform an in-depth risk assessment to evaluate your current, specific risks and determine opportunities for optimized protection.

Reduce the Risk of Disruptions to Your Production Process

As a frontrunner in your industry, you rely on high-quality systems, productive employees, and secure facilities to meet the demands of your customers. You can't afford to halt production or blow your budget on facility repairs or system replacements.

But when transient voltage occurs or lightning strikes, you'll be faced with these costly scenarios in the blink of an eye. Eliminate your chances of electrical infrastructure damage with DEHN.

No two manufacturers are alike. So neither are our solutions. Once we've completed our risk analysis, we'll work with your team to develop custom power quality protection systems to fit your unique applications.

In a few simple conversations, you will be on the path toward greater peace of mind that your operations are protected and your employees face a lesser chance of being injured on the job. Request a risk assessment from DEHN today, and learn more about how our internationally recognized team can help you reach your business goals.

All-Encompassing Solutions for Your Market

DEHN serves OEMs across the following markets in North America:

Energy Supply

Photovoltaic Systems, Wind Turbines, Biogas Plants

When an electrical event disables operations in the energy supply industry, it doesn't just affect your company. Customers who rely on your services will also experience disruptions and potential health hazards. DEHN can implement comprehensive protection for photovoltaic systems, wind turbines, and biogas plants.

E-Mobility

As electric vehicles (EVs) become increasingly popular across the U.S., the demand for reliable, accessible charging infrastructure has skyrocketed. A transient surge or lightning strike could compromise your ability to meet this demand, as well as damage existing stations and the vehicles attached to them. We can help protect both AC & DC charging infrastructure, including wall boxes, bus charging stations, communication electronics, and charge controllers and batteries.

Battery Storage Systems

Battery storage systems are essential to countless U.S. markets. In 2022, the industry was valued at roughly $5.4 billion. If even the smallest equipment is damaged in an electrical event, it could trigger a domino effect that takes down the entire system and eliminates your ability to fulfill contractual power supply obligations.

Process Technology

Oil and Gas Industry, Chemical Industry

Threats to the oil and gas industry and chemical industry don't just pertain to your equipment and facilities, but also your reputation. If the power quality of drilling rigs, pipelines, water and wastewater plants, and other sensitive systems is compromised and the hazardous materials you work with can't be contained or safely managed, your business could be at risk of litigation, public ridicule, or even breaking industry regulations.

Services and Solutions

Turnkey Services

DEHN is more than a product provider. We are a committed partner for your lasting safety and success.
To further serve our customers across industries, we developed DEHNservices, a group of comprehensive engineering solutions designed to complement our proficient lightning and surge protection, and
grounding system products. We want to see you through every phase of your safety optimization projects while ensuring you exceed the standards set for your unique industry.

Our services include:

- Lightning Risk Assessment
- Advanced Lightning Studies
- Lightning Protection System Design
- Safety Grounding System Design
- Grounding System Audits
- Lightning and Surge Protection Audits

Transient Voltage Solutions

External Transients are significant events, contributing to around 20% of electrical and electronic damage linked to power quality issues. These surges can appear in the form of:

- Lightning Strikes
- Utility Grid Switching
- Power System Faults

Internal Transients like Impulse surges are responsible for about 80% of damage to electrical and electronic equipment. These surges result from everyday equipment operations.

- Variable Frequency Drives
- HMI/PLC
- HVAC
- Process Controls
- Motors
- Oil & Gas
- Switchgear
- Lighting & Lighting Controls

Although smaller in intensity, these surges can occur tens of millions of times per day. Lower-intensity surges cause disruption and damage. Surge-related issues are underestimated and misdiagnosed, posing a significant challenge to power quality.

Understanding Internal Transient Disturbances
Everyday operations of electrical and electronic equipment generate these disturbances. Abrupt changes in current flow, like switching on lights or motors can trigger surges. Disturbances can be random or repetitive. Activities such as turning on lights are typically random, while the operation of variable frequency drives, rectifiers, and switch-mode power supplies tends to be repetitive, leading to abundant surges.

Damage Caused by Internal Transient Disturbances
Even low-intensity surges can silently damage sensitive circuits within the equipment, leading to system disruptions, timing issues, process glitches, and light flickering. Over time, these symptoms can culminate in premature Hard Failure.

Preventive Measures by DEHN
We offer high-quality, high-performance surge protection devices (SPDs) to mitigate transient disturbances and prevent damage to your valuable equipment. In addition, DEHN can provide SPD coordination studies to ensure you get the correct SPDs for your entire facility.

Product Highlights - AC Power Product Line

DEHNguard Modular for North America

No additional power quality protection devices are required to ensure the effectiveness of the DEHNguard Modular for North America – a pre-wired unit consisting of a base part and plug-in protection modules. Its high discharge capacity and reliability are due to heavy-duty zinc oxide varistors (Imax 50 kA 8x20ps) and thermo dynamic control arrester monitoring.

DEHNrail Modular

When you need high versatility, energy coordination with other Red/Line arresters, and easy replacement of modules, look no further than the DEHNrail Modular. This two-pole surge arrester consists of a base part and a plug-in protection module and operations state/fault indication by a green/red indicator flag in the inspection window.

DEHNbloc Modular for North America

Experience a high discharge current capacity produced by a powerful creepage discharge spark gap. The DEHNbloc Modular for North America is a DIN rail mount, pluggable lightning current arrester that can be directly coordinated with DEHNguard MU surge protective devices without additional cable length.

DEHNcombo YPV

Rooftop and free field systems can be protected from direct lightning strikes and transient over-voltages with the help of the DEHNcombo YPV. Suitable for DC+/DC- earthed systems, as well as floating systems, this arrester can be used up to 10 kA without an additional backup fuse. It's available for system voltages UCPV ≤ 1200 V and ≤ 1500 V, thus ensuring effective protection of terminal devices.

DEHNventil Modular

The DEHNventil Modular is a pre-wired spark, gap-based combined lightning current and surge arrester for type 1, type, 2, and type 3. Consisting of a base part and a single plug-in protection module, it boasts RAC spark powerful gap technology, that is still gentle on your terminal devices. With a discharge capacity of up to 100 kA (10/350 ps), it is effective for a range of terminal equipment protection applications.

Product Highlights - DC and Data Product Line

BLITZDUCTORconnect

Looking for a modular and compact device with a high lightning current discharge capacity? The BLITZDUCTORconnect is a space-saving, universal combined arrester with a total capacity of 3 kA, low protection levels, and a push-in connection terminal with status indication. It's ideal for protecting measuring, control, bus, and telecommunication systems from transient voltage.

BLITZDUCTORconnect 24 V/10 A

Protect your DC supply with the BLITZDUCTORconnect 24 V/10 A – a powerful arrester with a nominal current of up to 10 A. Especially effective for unearthed power supplies and signal circuits in measuring and control applications, this compact arrester is characterized by a simple push-in connection installation and integrated status indication for easier maintenance.

DEHNpatch Class EA

Only 19mm in width, this space-saving combined arrester offers a clear status indication and remote signaling options. The DEHNpatch Class EA is specially engineered for ethernet applications up to 10 Gbits and power over ethernet up to 4PPoE.

DEHNrecord condition monitoring

When you need accessible, reliable monitoring of arresters, the DEHNrecord condition monitoring is a top choice. With an integrated visual transmitter/receiver and a visual reverse unit, it combines the power of the BLITZDUCTORconnect system range with LifeCheck. It also offers a quick and simple installation and plug-and-play commissioning.

DEHNpipe

DEHNpipe is a range of surge arresters made of corrosion-resistant stainless steel, designed to be screwed onto field devices. Equipped with a parallel or series connection, this arrester is available with second interface protection on the data or power side.

DEHNguard: UL 1449/ CSA, 8/20 µs							
Part #	Description	Line Voltage	Max Cont Voltage	Voltage Protection Rating	Nominal Discharge	w/o Remote	UL Type
908090	DG SU 1P 120 R	127Vac 1 P	230Vac	700Vpk	20kA	908070	Open Type 1
908094	DG SU 1P 240 R	277Vac 1P	385Vac	1200Vpk	20kA	908074	Open Type 1
908096	DG SU 1P 347 R	347Vac 1P	510Vac	1500Vpk	20kA	908076	Open Type 1
908195	DG MU SP 240 3W+G R	127/254Vac SPL P	230/460Vac	700/1500Vpk	20kA	908190	Open Type 1
908197	DG MU SP 480 3W+G R	240/480Vac SPL P	385/770Vac	1200/2500Vpk	20kA	908192	Open Type 1
908208	DG MU CGD 240 3W+G R	240Vac CGD	275/550Vac	800/1500Vpk	20kA	908203	Open Type 1
908209	DG MU CGD 480 3W+G R	480Vac CGD	550/1100Vac	1800/3000Vpk	20kA	908204	Open Type 1
908305	DG MU 3PY 208 3W+G R	120/208Vac 3P Y	180/360Vac	600/1200Vpk	20kA	908300	Open Type 1
908306	DG MU 3PY 600 3W+G R	347/600Vac 3P Y	510/1020Vac	1500/3000Vpk	20kA	908301	Open Type 1
908319	DG MU 3PY 480 3W+G R	277/480Vac 3P Y	385/770Vac	1200/2500Vpk	20kA	908314	Open Type 1
908345	DG MU 3PY 208 4W+G R	120/120/208/0Vac 3P Y	180/360/360/180Vac	600/1200/1200/600Vpk	20kA	908340	Open Type 1
908346	DG MU 3PY 480 4W+G R	277/277/480/0Vac 3P Y	385/565/770/180Vac	1200/1800/2500 /600Vpk	20kA	908341	Open Type 1
908347	DG MU 3PY 600 4W+G R	347/600Vac 3P Y	510/690/1020/180Vac	1500/2000/3000/600Vpk	20kA	908342	Open Type 1
908348	DG MU 3PH 240 4W+G R	120/240 3P H-L D	230/275/410/455/ 460/505/180Vac	700/800/1200/1500/ 1500/1500/600Vpk	20kA	908343	Open Type 1
908349	DG MU 3PH 480 4W+G R	240/480 3P H-L D	385/510/565/690/ 770/895/180Vac	1200/1500/1800/2000/ 2500/2500/600Vpk	20kA	908344	Open Type 1
908355	DG MU 3PD 480 3W+G R	480Vac 3P D	550/1100Vac	1800/3000Vpk	20kA	908350	Open Type 1
908356	DG MU 3PD 240 3W+G R	240Vac 3P D	275/550Vac	800/1500Vpk	20kA	908351	Open Type 1

DEHNbloc: UL 1449/ CSA, 10/350 µs						
Part #	Description	System Type	Max Cont Voltage	Voltage Protection Rating	Nominal Discharge	UL Type
908505	DB MU 3PY 208 3W+G R	120/208Vac 3P	150/260Vac	1500/2500Vpk	20kA	Type 1 CA
908506	DB MU 3PY 480 3W+G R	277/480Vac 3P	320/555Vac	1800/3000Vpk	20kA	Type 1 CA

DEHNbloc Modular: Coordinated Spark-Gap Lightning current arrester UL 1449/ CSA							
Part #	Description	System Type	Max Cont Voltage	Voltage Protection Level	Nominal Discharge	w/o Remote	UL Type
961115	Maxi DB M 1 150 FM	120Vac	150Vac	< 1.5kV	35kA	961110	Type 2 CA
961125	Maxi DB M 1 255 FM	230Vac	255Vac	< 2.5kV	50kA	961120	Type 2 CA
961135	Maxi DB M 1 320 FM	277Vac	320Vac	< 2.5kV	25kA	961130	Type 2 CA
961145	Maxi DBM 1 440 FM	400Vac	440Vac	< 2.5kV	35kA	961140	Type 2 CA

DEHNrail Modular: UL 1449/ CSA							
Part #	Description	Nominal Voltage	Max Cont Voltage	Voltage Protection Level	Nominal Discharge	w/o Remote	UL Type
953205	DR M 2P 255 FM	230Vac	255Vac	≤ 1250 / ≤ 1500 V	3kA	953200	Type 3 CA
953206	DR M 2P 30 FM	24Vac	30Vac	≤ 180 / ≤ 630 V	1kA	953201	Type 4 CA
953207	DR M 2P 60 FM	48Vac	60Vac	≤ 350 / ≤ 730 V	1kA	953202	Type 4 CA
953208	DR M 2P 75 FM	60Vac	75Vac	≤ 400 / ≤ 730 V	2kA	953203	Type 4 CA
953209	DR M 2P 150 FM	120Vac	150Vac	≤ 640 / ≤ 800 V	2kA	953204	Type 4 CA

DEHNguard S: UL 1449/ CSA							
Part #	Description	System Type	Max Cont Voltage	Voltage Protection Rating	Nominal Discharge	w/o Remote	UL Type
952090	DG S 275 FM	230Vac	275Vac	≤ 1.5kV	20kA	952070	Type 4 CA
952091	DG S 75 FM	60Vac	75Vac	≤ 0.4kV	10kA	952071	Type 4 CA
952092	DG S 150 FM	120Vac	150Vac	≤ 0.7kV	15kA	952072	Type 4 CA
952093	DG S 320 FM	230Vac	320Vac	≤ 1.5kV	20kA	952073	Type 4 CA
952094	DG S 385 FM	230Vac	385Vac	≤ 1.75kV	20kA	952074	Type 4 CA
952095	DG S 440 FM	400Vac	440Vac	≤ 2kV	20kA	952075	Type 4 CA
952096	DG S 600 FM	480Vac	600Vac	≤ 2.5kV	15kA	952076	Type 4 CA
952097	DG S WE 600 FM	480Vac	600Vac	≤ 3kV	15kA	952077	Type 4 CA

DEHNguard M: For single phase TT and TN Systems UL 1449/ CSA						
Part #	Description	System Type	Max Cont Voltage	Nominal Discharge	w/o Remote	UL Type
952115	DG M TT 2P 275 FM	230Vac	275Vac	20kA	952110	Type 4 CA
952117	DG M TT 2P 275 NL FM	230Vac	275Vac	20kA	952112	Type 4 CA
952205	DG M TN 275 FM	230Vac	275Vac	20kA	952200	Type 4 CA
952206	DG M TN 150 FM	120Vac	150Vac	15kA	952201	Type 4 CA
952207	DG M TN 275 NL FM	230Vac	275Vac	20kA	952202	Type 4 CA
952305	DG M TNC 275 FM	230Vac	275Vac	20kA	952300	Type 4 CA
952307	DG M WE 600 FM	480Vac	600Vac	15kA	952302	Type 4 CA
952308	DG M TNC 440 FM	400Vac	440Vac	20kA	952303	Type 4 CA
952315	DG M TT 275 FM	230Vac	275Vac	20kA	952310	Type 4 CA
952316	DG M TT 385 FM	230Vac	385Vac	20kA	952311	Type 4 CA
952317	DG M TT 275 NL FM	230Vac	275Vac	20kA	952312	Type 4 CA
952318	DG M TNC 150 FM	120Vac	150Vac	15kA	952313	Type 4 CA
952319	DG M TNC 385 FM	230Vac	385Vac	20kA	952314	Type 4 CA
952329	DG M 3W 275 150 FM	100/200Vac	275Vac	20kA	952321	Type 4 CA
952328	DG M TT 150 FM	120Vac	150Vac	15kA		Type 4 CA
952339	DG M 3W 275 FM	200Vac	275Vac	20kA	952331	Type 4 CA
952332	DG M TT 385/305 FM	230Vac	385Vac	20kA		Type 4 CA
952405	DG M TNS 275 FM	230Vac	275Vac	20kA	952400	Type 4 CA
952407	DG M TNS 275 NL FM	230Vac	275Vac	20kA	952402	Type 4 CA
952408	DG M TNS 150 FM	120Vac	150Vac	15kA	952403	Type 4 CA
952409	DG M TNS 385 FM	230Vac	385Vac	20kA	952404	Type 4 CA

DEHNguard & DEHNcombo UL 1449/ CSA							
Part #	Description	MAX PV. Voltage	Voltage Protection Level	Replaceable Modules	ISCPV	w/o remote	UL Type
900075	DEHNcombo DCB YPV 1200 FM	≤ 1200 V	< 3.8kV	NO	10kA	900070	Type 1 & 2 CA PV
900076	DEHNcombo DCB YPV 1500 FM	≤ 1500 V	<4.5kV	NO	10kA	900071	Type 1 & 2 CA PV
952565	DEHNguard DG M YPV 1200 FM	1170 V	< 4kV	YES	10kA		Type 1 CA PV
952567	DEHNguard DG M YPV 1500 FM	1500 V	< 5kV	YES	10kA		Type 1 CA PV

DEHNconnect - UL 497b Data Communication & Fire Alarm Circuits						
Part #	Description	Signal Configuration	Nominal Voltage (d.c.)	Max Cont Voltage (d.c.)	Nominal Current at 80 C (IL)	IEC SPD Class
917970	DCO SD2 MD HF 5,vp, CSA/UL	Unearthed	5	8.5	0.5 A	TYPE 2 P1
917920	DCO SD2 ME 12, vp, CSA/UL	Earthed	12	14	0.5 A	TYPE 2 P1
917921	DCO SD2 ME 24, vp CSA/UL	Earthed	24	33	0.5 A	TYPE 2 P1
917941	DCO SD2 MD 24, vp, CSA/UL	Unearthed	24	33	0.5 A	TYPE 2 P1
917960	DCO SD2 MD EX 24,vp, CSA/UL	Unearthed	24	33	0.5 A	TYPE 2 P1
917988	DCO SD2 E 24, vp, CSA/UL	Earthed	24	28	10A @ 60 C	TYPE 3 P1

BLITZDUCTOR Modules - UL 497b						
Part #	Description	Signal Configuration	Nominal Voltage	Max Cont Voltage (d.c.)	Nominal Current at 45C (IL)	IEC SPD Class
920270	BXT ML2 BE HFS 5	Earthed	5	6	1.0A	TYPE 1 P1
920271	BXT ML2 BD HFS 5	Unearthed	5	6	1.0A	TYPE 1 P1
920320	BXT ML4 BE 5	Earthed	5	6	1.0A	TYPE 1 P1
920340	BXT ML4 BD 5	Unearthed	5	6	1.0A	TYPE 1 P1
920370	BXT ML4 BE HF 5	Earthed	5	6	1.0A	TYPE 1 P1
920371	BXT ML4 BD HF 5	Unearthed	5	6	1.0A	TYPE 1 P1
920322	BXT ML4 BE 12	Earthed	12	15	0.75A	TYPE 1 P1
920342	BXT ML4 BD 12	Unearthed	12	15	1.0A	TYPE 1 P1
920324	BXT ML4 BE 24	Earthed	24	33	0.75A	TYPE 1 P1
920344	BXT ML4 BD 24	Unearthed	24	33	1.0A	TYPE 1 P1
920375	BXT ML4 BD HF 24	Unearthed	24	33	1.0A	TYPE 1 P1
920226	BXT ML2 BE S 36	Earthed	36	45	1.8A	TYPE 1 P1
920336	BXT ML4 BE 36	Earthed	36	45	1.8A	TYPE 1 P1
920225	BXT ML2 BE S 48	Earthed	48	54	0.75A	TYPE 1 P1
920325	BXT ML4 BE 48	Earthed	48	54	0.75A	TYPE 1 P1
920345	BXT ML4 BD 48	Unearthed	48	54	1.0A	TYPE 1 P1
920326	BXT ML4 BE 60	Earthed	60	70	1.0A	TYPE 1 P1
920346	BXT ML4 BD 60	Unearthed	60	70	1.0A	TYPE 1 P1
920327	BXT ML4 BE 180	Earthed	180	180	1.0A	TYPE 1 P2
920347	BXT ML4 BD 180	Unearthed	180	180	0.75A	TYPE 1 P2
920249	BXTU ML2 BD S 0-180	Unearthed	0-180	180	0.1A @ 80 C	TYPE 1 P1
920349	BXTU ML4 BD 0-180	Unearthed	0-180	180	0.1A @ 80 C	TYPE 1 P1

BLITZDUCTOR Module Bases		
Part #	Description	Note
920300	BXT BAS	Every BLITZDUCTOR BXT Module needs an adiquate BXT BAS
920301	BXT BAS EX, Atex+Hazloc	Every BLITZDUCTOR BXT Module needs an adiquate BXT BAS
920306	BXT BAS 2 S1	Every BLITZDUCTOR BXT Module needs an adiquate BXT BAS

BLITZDUCTORconnect - UL 497b Data Communication & Fire Alarm Circuits						
Part #	Description	Signal Configuration	Nominal Voltage	Max Cont Voltage (d.c.)	Nominal Current	IEC SPD Class
927270	BCO ML2 BE HF 5 Modular	Earthed	5	8.5	0.75A @ 70 C	TYPE 1 P2
927271	BCO ML2 BD HF 5 Modular	Unearthed	5	8.5	0.75A @ 70 C	TYPE 1 P2
927970	BCO CL2 BE HF 5 Compact	Earthed	5	8.5	0.75A @ 70 C	TYPE 1 P1
927971	BCO CL2 BD HF 5 Compact	Unearthed	5	8.5	0.75A @ 70 C	TYPE 1 P2
927222	BCO ML2 Modular BE 12 Modular	Earthed	12	15	0.75A @ 70 C	TYPE 1 P1
927242	BCO ML2 Modular BD 12 Modular	Unearthed	12	15	0.75A @ 70 C	TYPE 1 P2
927922	BCO CL2 BE 12 Compact	Earthed	12	15	0.75A @ 70 C	TYPE 1 P1
927942	BCO CL2 BD 12 Compact	Unearthed	12	15	0.75A @ 70 C	TYPE 1 P2
927987	BCO CL2 E 12 Compact	Earthed	12	15	10.0 A @ 60 C	TYPE 3 P1
927214	BCO ML2 BPD 24 Modular	Unearthed	24	33	0.1A @ 70 C	TYPE 1 P2
927224	BCO ML2 BE 24 Modular	Earthed	24	33	0.75A @ 70 C	TYPE 3 P1
927244	BCO ML2 BD 24 Modular	Unearthed	24	36	0.75A @ 70 C	TYPE 1 P2
927274	BCO ML2 BE HF 24 Modular	Earthed	24	36	0.75A @ 70 C	TYPE 1 P1
927275	BCO ML2 BD HF 24 Modular	Unearthed	24	36	0.75A @ 70 C	TYPE 1 P2
927284	BCO ML2 BD EX 24 Modular	Unearthed	24	36	0.5A @ 80 C	TYPE 1 P2
927924	BCO CL2 BE 24 Compact	Earthed	24	33	0.75A @ 70 C	TYPE 1 P1
927944	BCO CL2 BD 24 Compact	Unearthed	24	36	0.75A @ 70 C	TYPE 1 P2
927988	BCO CL2 E 24 Compact	Earthed	24	33	10.0 A @ 60 C	TYPE 3 P1
927954	BCO CL4 BC 24 Compact	Unearthed	24	36	3.0 A @ 70 C	TYPE 1 P2
927408	BCO CL2 BD HC10A 24 Compact	Unearthed	24	45	10.0 A @ 70 C	TYPE 1 P2
927984	BCO CL2 BD EX 24 Compact	Unearthed	24	36	0.5 A @ 70 C	TYPE 1 P2
927225	BCO ML2 BE 48 Modular	Earthed	48	54	0.75A @70 C	TYPE 1 P1
927245	BCO ML2 BD 48 Modular	Unearthed	48	56	0.75A @ 70 C	TYPE 1 P2
927925	BCO CL2 BE 48 Compact	Earthed	48	54	0.75A @ 70 C	TYPE 1 P1
927945	BCO CL2 BD 48 Compact	Unearthed	48	56	0.75A @ 70 C	TYPE 1 P2
927989	BCO CL2 E 48 Compact	Earthed	48	58	10.0 A @ 60 C	TYPE 3 P1
927210	BCO ML2 B 180 Modular		180	180	1.2A @80 C	TYPE 1
927227	BCO ML2 BE 180 Modular	Earthed	180	180	0.5A @ 70 C	TYPE 1 P1
927247	BCO ML2 BD 180 Modular	Unearthed	180	180	0.5A @ 70 C	TYPE 1 P2
927910	BCO CL2 B 180 Compact		180	180	1.2 A@ 70 C	TYPE 1
910710	DRC IRCM * accessory part					monitoring unit for BCO/DPA

Data Networks and Ethernet - UL 497b							
Part #	Description	Class	Nominal Voltage (d.c.)	Max Cont Voltage (d.c.) pair-pair (POE)	Nominal Current IL	cut-off frequency	Interface/Signal Type or Compatibility
929161	Ethernet to 10Gbit RJ45 status indication	EA	3.3	58	1.5A	500MHz	Data Network & Ethernet
929221	DPA CLE IP66	E (outdoor)	5	60	1.0A	250MHz	Data Network & Ethernet
929121	DPA M CLE RJ45B 48	E	48	57	1.0A	100MHz	Data Network & Ethernet
929126	DPA M CLD RJ45B 48	D	48	57	1.0A	250MHz	Data Network & Ethernet

DEHNpipe - UL 497b					
Part #	Description	Thread	Nominal Voltage	Max Cont Voltage (d.c.)	Nominal Current IL
929963	Surge arrester DEHNpipe Ex (i)	1/2 -14 NPT male	24	32	0.55A
929964	Surge arrester DEHNpipe Ex (d)	1/2 -14 NPT male	24	32	0.55A
929970	DEHNpipe Ex (d) dual protection 120/230V	1/2 -14 NPT male	24	32	0.55A

Surge Protection
Lightning Protection
Safety Equipment
DEHN protects.

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DS446/US/0224
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