



CAPAROC for hazardous locations

Electronic circuit breakers for CID2, ATEX, and IECEx

CAPAROC products approved for global hazardous locations

The industry has imposed stringent requirements for switching components in potentially explosive areas. To prevent accidental ignition, all equipment must be suitable for installation in hazardous location areas to keep individuals working in proximity safe from potential danger.

Phoenix Contact's CAPAROC circuit breaker system offers solutions for hazardous location applications around the globe. Our Class I, Division 2-rated parts are designed for use in North America, while our triple-rated options cover the entire globe.



Approvals for hazardous locations around the globe



North America: CID2

Hazardous (classified) locations, as defined in the National Electric Code (NEC), are locations where fire or explosion hazards may exist due to the presence of flammable gases, vapors, flammable liquids, combustible dusts, ignitable fibers, or flying matter. Article 500 of the NEC divides all hazardous (classified) locations into Classes, Divisions, and Groups.

Phoenix Contact's hazardous location-rated CAPAROC system modules have been tested and approved for Class I, Division 2 Groups A, B, C, and D.

Approval:

UL 121201

CL.I, Div.2, Grp. A,B,C,D; T4A



Europe: ATEX

The countries that make up the European Economic Area adopt directives as their national laws. The ATEX Directive is the law in every country in the European Community. Part of the law states that all products for use in explosive atmospheres must meet the Directive.

This means that all manufacturers of mechanical and electrical equipment for use in potentially explosive atmospheres must comply with the ATEX Directive to market their products within the European Union.

Phoenix Contact's hazardous location-rated CAPAROC system modules have been tested and approved for Device Group II and Category 3G, for use in Zone 2 (gasses).

Approval: ATEX

TUV 22 ATEX 8874 X

II 3G Ex ec IIC T4 Gc

Approval: UKCA-EX

TUV 22 UKEX 7109 X

II 3G Ex ec IIC T4 Gc



International: IECEx

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes international standards for all electrical, electronic, and related technologies.

IECEx is a single global certification framework based on the IEC's international standards. It caters to countries whose national standards are either identical to those of the IEC or very close to IEC standards.

The IECEx approval is truly global in concept and practice, reduces trade barriers caused by different conformity assessment criteria in various countries, and helps the industry open up new markets.

Phoenix Contact's hazardous location-rated CAPAROC system modules have been tested and approved for protection types ec, gas type IIC, and for use in Zone 2 (gasses).

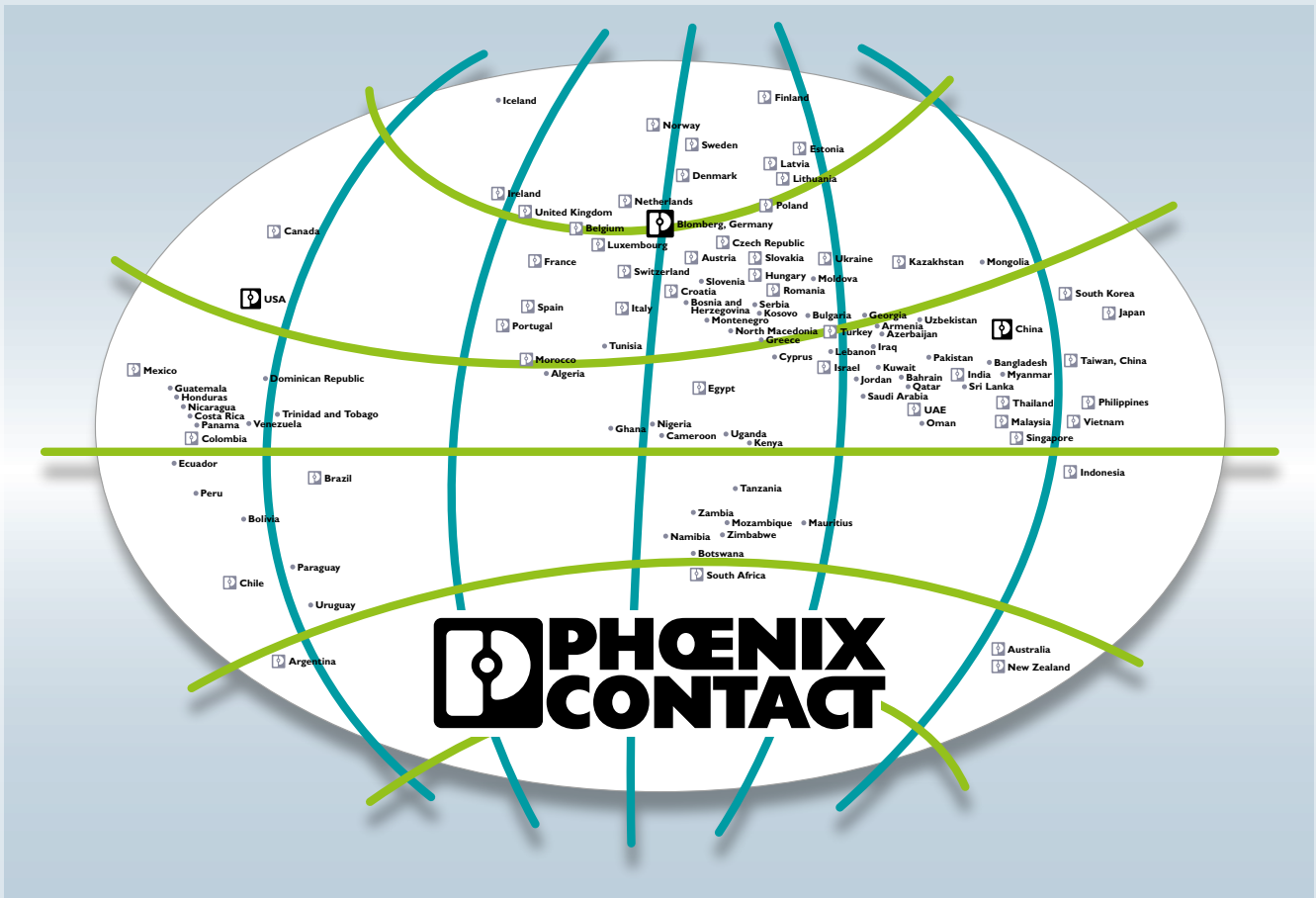
Approval:

IECEx TUR 22.0049X

II 3G Ex ec IIC T4 Gc

Class I, Division 2-rated parts (CID2)						
Part no.	Part type	Description	Approvals			
1-channel circuit breakers			UL 508	UL 2367	NEC Class 2	CID2
1115415	CAPAROC E1 12-24DC/1-4A	1-channel electronic circuit breaker module, adjustable nominal current from 1 A to 4 A, NEC Class 2	X	X	X	X
1115649	CAPAROC E1 12-24DC/1-10A	1-channel electronic circuit breaker module, adjustable nominal current from 1 A to 10 A	X	X		X
1157288	CAPAROC E1 12-24DC/1A	1-channel electronic circuit breaker module, with fixed nominal current of 1 A, NEC Class 2	X	X	X	X
1157290	CAPAROC E1 12-24DC/2A	1-channel electronic circuit breaker module, with fixed nominal current of 2 A, NEC Class 2	X	X	X	X
1157285	CAPAROC E1 12-24DC/4A	1-channel electronic circuit breaker module, with fixed nominal current of 4 A, NEC Class 2	X	X	X	X
1157286	CAPAROC E1 12-24DC/6A	1-channel electronic circuit breaker module, with fixed nominal current of 6 A	X	X		X
1157279	CAPAROC E1 12-24DC/8A	1-channel electronic circuit breaker module, with fixed nominal current of 8 A	X	X		X
1157284	CAPAROC E1 12-24DC/10A	1-channel electronic circuit breaker module, with fixed nominal current of 10 A	X	X		X
2-channel circuit breakers			UL 508	UL 2367	NEC Class 2	CID2
1115655	CAPAROC E2 12-24DC/1-4A	2-channel electronic circuit breaker module, adjustable nominal current from 1 A to 4 A, NEC Class 2	X	X	X	X
1110984	CAPAROC E2 12-24DC/2-10A	2-channel electronic circuit breaker module, adjustable nominal current from 2 A to 10 A	X	X		X
Current rails			UL 508	UL 2367	NEC Class 2	CID2
1110989	CAPAROC CR 20	20-position current rail, for installation on a DIN rail	X			X
1115672	CAPAROC CR 8	8-position current rail, for installation on a DIN rail	X			X
1115674	CAPAROC CR EXT20	Extension 20-position current rail, for installation on a DIN rail	X			X
1110990	CAPAROC CR EXT8	Extension 8-position current rail, for installation on a DIN rail	X			X
1110991	CAPAROC CR EXT4	Extension 4-position current rail, for installation on a DIN rail	X			X
1270955	CAPAROC CR CON	Replacement metal extensions for current rails	X			X
Power modules			UL 508	UL 2367	NEC Class 2	CID2
1115661	CAPAROC PM S-R	Status-reset power module with status output and reset input	X			X
1110986	CAPAROC PM PN	PROFINET power module with PROFINET interface	X			X
Distribution module			UL 508	UL 2367	NEC Class 2	CID2
1110987	CAPAROC PD 0V	0V distribution module	X			X

Triple-rated parts: CID2, ATEX, and IECEx							
Part no.	Part type	Description	Approvals				
2-channel circuit breakers			UL 508	UL 2367	NEC Class 2	CID2	ATEX IECEx
1344361	CAPAROC E2 12-24DC/1-4A EX	2-channel electronic circuit breaker module, adjustable nominal current from 1 A to 4 A, for 12 V DC to 24 V DC applications. Triple-rated for hazardous locations: CID2, ATEX, IECEx	X	X	X	X	X X
1344364	CAPAROC E2 12-24DC/2-10A EX	2-channel electronic circuit breaker module, adjustable nominal current from 1 A to 10 A, for 12 V DC to 24 V DC applications. Triple-rated for hazardous locations: CID2, ATEX, IECEx	X	X		X	X X
Power module			UL 508	UL 2367	NEC Class 2	CID2	ATEX IECEx
1344363	CAPAROC PM S-R EX	Status-reset power module with status output and reset input, for 12 V DC to 24 V DC applications. Triple-rated for hazardous locations: CID2, ATEX, IECEx	X			X	X X



Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented products and solutions for the electrification, networking, and automation of all economy and infrastructure sectors. With a global network reaching more than 100 countries with over 20,000 employees, we maintain close relationships with our customers, which we believe is essential for our joint success. Our wide range of innovative products makes it easy for our customers to implement the latest technology in various applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

You can find your local partner at
phoenixcontact.com