

Explosion-Proof Starters and Controllers



Sprecher+Schuh's Explosion-proof Starters and Controllers are precisely engineered to provide protection in a wide range of hazardous gas (Type 7) and hazardous dust (Type 9) environments. In addition, NEMA 4 gaskets are standard on most enclosures, providing watertight protection.

- Promotes efficiency while providing safety in hazardous environments
- Wide range of explosion-proof choices and motor needs
- Custom enclosures, multiple starters, softstarters & combination softstarters, viewing windows, custom pilot switches, higher horsepower and reversing for specialized applications



Type 7 and Type 9 protection

Type 7 enclosures are designed to provide protection against an internal explosion when operated in a hazardous gas environment. Type 9 enclosures protect from internal explosion in a hazardous dust environment. Both types must also prevent enclosed heat generating mechanisms from causing external surfaces to reach temperatures capable of igniting explosive gas-air mixtures in the surrounding atmosphere.

Starting with the best

At the heart of all explosion-proof starters is Sprecher + Schuh's CAT7 and CAT6 line of motor starters. These starters are compact and offer intermediate sizes to better match specific motor requirements. This equates to generous wiring space and less wasted horsepower capacity. Compact components means a smaller cast aluminium enclosure and a smaller price.

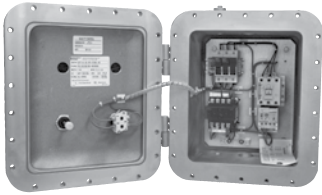




Top line protection...

CAT7 and CAT6 Explosion Proof starters are equipped with Sprecher + Schuh's CEP7 solid state overload relay. Unlike traditional thermal overload relays that indirectly sense motor current through heater elements, CEP7 solid state overload relays measure motor current directly through integrated current transformers and on board electronics. The electronics provide numerous advantages like adjustable trip class and the ability to apply side-mount modules for extra protection.

Combination starters for protection and convenience

Explosion-proof combination starters can include either a UL489 approved Thermal Magnetic Circuit Breaker (MCCB) or non-fusible disconnect. The MCCB utilizes the instantaneous trip ability of a magnetic breaker for short circuit currents combined with the overload tolerance of thermal circuit breakers for normal starting demands. An MCCB can also be quickly reset after the fault has been cleared.

Explosion-Proof Uses

	CAT6 & CAT7	KTA7__EX	KTA7__EY	CX7
	 Across-the-Line or Combination	 Manual Motor Controller	 Manual Motor Controller	 E-Combo self-protected
Industry Standards & Uses	Indoor, Outdoor, Gas, Dust	Indoor, Gas, Dust	Indoor, Outdoor, Gas, Dust	Indoor, Outdoor Gas, Dust
NEMA 7, 9	✓	✓	✓	✓
cUL Type: 3, 3R, 4 & 12	✓	~	✓	✓
NEC: Class I, Group B	✓	~	✓	✓
Class I, Groups C&D	✓	✓	✓	✓
Class II, Groups E,F&G	✓	✓	✓	✓
Class III	✓	~	✓	✓
Max. Horsepower 3-Phase	200V	150	7-1/2	15
	230V	175	7-1/2	15
	460V	350	15	30
	575V	400	20	30
Options				
Breather + Drain	Optional	Optional	Optional	Optional
Pilot Devices	Optional	~	~	Optional
ATEX Certified 	Optional	~	~	~
Features	Full-functioning and Economical	Compact and Economical	Can accommodate shunt or undervoltage module	CA7 Contactor for remote operation

CAT7 & CAT6 Starters

ACROSS-THE-LINE STARTER

- Quick availability for standard units
- CEP7 Electronic Overload Relay
- Ample conduit holes standard
- Compact Design

COMBINATION STARTERS

- Molded case Thermal-Magnetic Circuit Breaker provides single phasing protection
- CAT7 or CAT6 Contactor
- CEP7 Electronic Overload Relay
- FVNR and FVR



KTA7 Manual Motor Controller

- Manual Starter or Manual “Type E” self-protected combo starter
- Through-the-door motor disconnect rated
- Class 10 Thermal Overload
- Compact design
- Type 4 Gasket on EY model

CX7 Combination Controller

- “Type E/F” self-protected combo starter
- Heavy duty enclosure
- Through-the-door motor disconnect rated
- Type 4 Gasket
- CA7 Contactor for remote operation
- Class 10 Thermal Overload

Sprecher + Schuh Explosion-Proof Enclosures for starters and motor controllers are durable and contain state-of-the-art technology. Refer to the 2012 catalog for more detailed specifications.

Contact your Sprecher + Schuh representative for more information and quick-ship availability.

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