Preventa™ Safety Relays Type XPSAV, XPSATE & XPSVNE

Catalog Supplement to 9007CT0201

2009

Schneider Electric

Preventa™ safety relays

Electrical life

Electrical life ratings of safety contacts conforming to EN 60947-5-1, table C2

XPSAC, XPSTSA, XPSTSW, XPSBA, XPSBC, XPSCM, XPSDA, XPSOT, XPSPVK, XPSPVT, XPSVNE

XPSECM, XPSECP
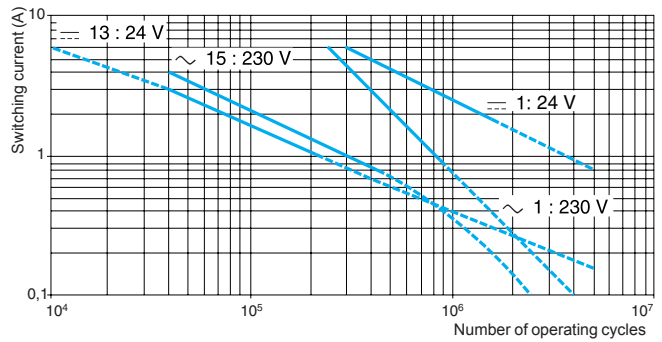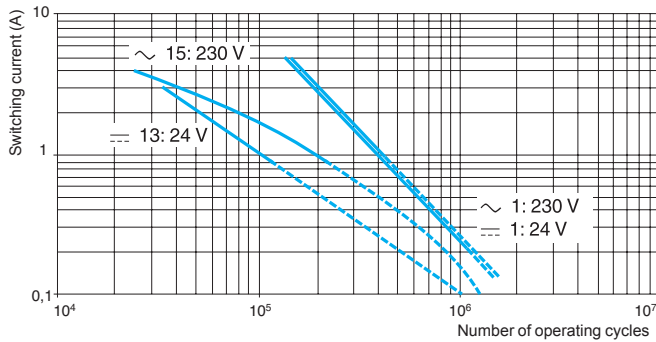
XPSATE

24 V $\rightleftharpoons$ version

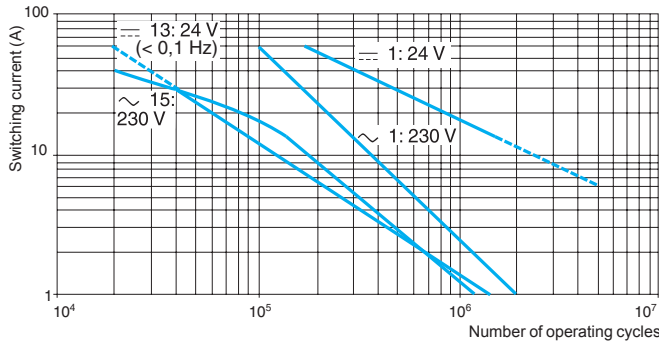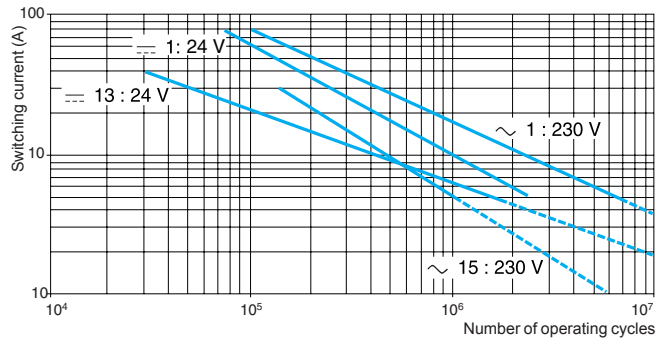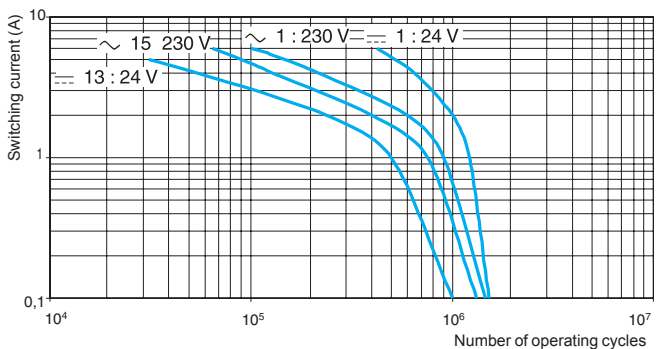115 V $\sim$ + 230 V $\sim$ version

XPSAF, XPSAK, XPSAFL

XPSAV, XPSMP, XPSVC, XPSBF, XPSMC

XPSAR

XPSDMB, XPSDME

Safety automation system solutions
Preventa™ safety relay modules types XPSAV, XPSATE
For Emergency stop and switch monitoring
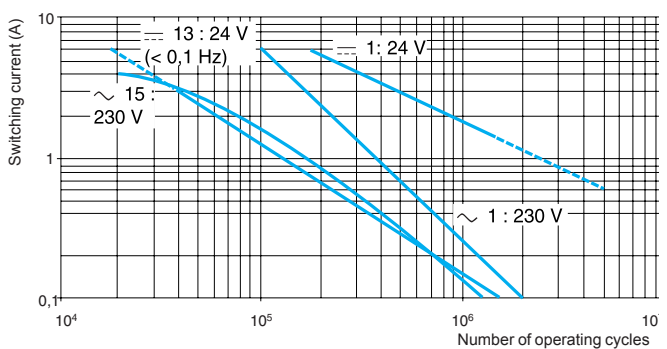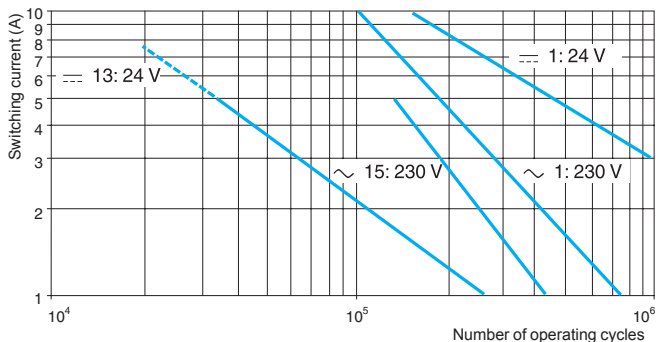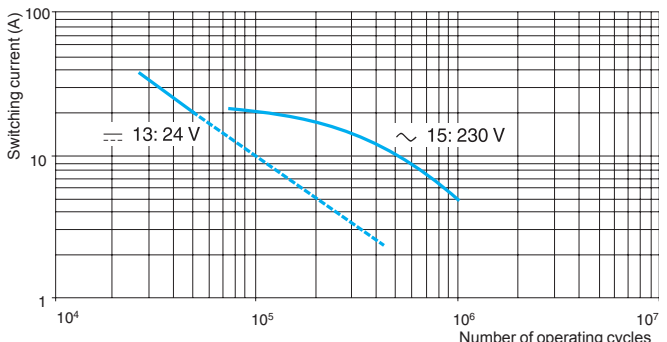
Operating principle

Preventa Safety relay modules types XPSAV and XPSATE are used for monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1 and also meet the safety requirements for the electrical monitoring of switches in protection devices conforming to standard EN 1088/ISO 14119.

They provide protection for both the machine operator and the machine by immediately stopping the machine movement on receipt of a stop instruction from the operator, or on detection of an anomaly in the safety circuit itself.

In addition to the stop category 0 instantaneous opening safety outputs (3 for XPSAV and 2 for XPSATE), the modules incorporate stop category 1 time delay outputs (3 for XPSAV and 3 for XPSATE) which allow for controlled deceleration of the motor components until a complete stop is achieved (for example, motor braking by variable speed drive).

At the end of the preset delay, the supply is disconnected by opening the time delay output circuits.

For module XPSAV, the time delay of the 3 output circuits is adjustable, in 15 preset values, between 0 and 300 seconds using selector buttons.

For module XPSATE, the time delay of the 3 output circuits is adjustable between 0 and 30 seconds using a 12-position selector switch.

Module XPSAV also incorporates 3 solid-state signalling outputs for signalling to the process PLC. Module XPSATE incorporates 4 solid-state signalling outputs for signalling to the process PLC.

To aid diagnostics, the modules have LEDs which provide information on the monitoring circuit status.

The Start button monitoring function is configurable depending on the wiring.

Characteristics

Module type			XPSAV11113 and AV11113P	XPSATE●●●● and ATE●●●●P
Product designed for max. use in safety related parts of control systems (conforming to EN 954-1/EN/ISO 13849-1)			Category 4 max.	Category 4 max. (instantaneous safety outputs) Category 3 max. (time delay safety outputs)
Conformity to standards			EN/IEC 60204-1, DIN V VDE 801 + A1, EN/ISO 13850, EN 1088/ISO 14119, EN/IEC 60947-1 A11, EN/IEC 60947-5-1	EN/IEC 60204-1, EN/IEC 60947-5-1, EN/ISO 13850, EN 50082-2
Product certifications			UL, CSA, BIA	UL, CSA, BG
Supply	Voltage	**V**	$\overline{---}$ 24	$\sim$ and $\overline{---}$ 24, $\sim$ 115, $\sim$ 230
	Voltage limits		- 20…+ 20%	- 20…+ 10% (24 V) - 15…+ 15% (115 V) - 15…+ 10% (230 V)
	Frequency	**Hz**	–	50/60
Power consumption		**W**	< 5	< 8
Module inputs fuse protection			Internal, electronic	Internal, electronic
Adjustable time delay		**s**	0…300	0…30
Start button monitoring			Yes/No (configurable by terminal connections)	Yes/No (configurable by terminal connections)
Control unit voltage (at nominal supply voltage)			Between input terminals S21-S22, S31-S32 or S11-S12	Between input terminals S11-S12, S21-S22 or S11-B1
	24 V version	**V**	24	24
	115 V, 230 V version	**V**	–	48
Calculation of wiring resistance RL between input terminals		**Ω**	100 max. Maximum cable length: 6562 ft. (2000 m)	RL max. $= \dfrac{U \text{ int} - U \text{ min.}}{I \text{ min.}}$ Ue = true voltage applied to terminals A1-A2 U int (terminals S11-S21) = supply voltage Ue - 3 V (24 V version) U int between 42 V and 45 V, with typical value = 45 V (115 V, 230 V version) Calculated max. RL must be equal to or greater than the true value

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Safety automation system solutions
Preventa™ safety relay modules types XPSAV, XPSATE
For Emergency stop and switch monitoring

Characteristics (continued)

Module type				XPSAV11113	XPSAV11113P	XPSATE●●●●	ATE●●●P
Synchronization time between inputs			s	For guard: 1.5 For Emergency stop: unlimited		Approx. 0.075 For automatic start, terminals S33-Y2 and Y3-Y4 linked	
Outputs	Voltage reference			Relay hard contacts		Relay hard contacts	
	Number and type of instantaneous opening safety circuits			3 N.O. (03-04, 13-14, 23-24)		2 N.O. (13-14, 23-24, 33-34)	
	Number and type of time delay opening safety circuits			3 N.O. (37-38, 47-48, 57-58)		3 N.O. (57-58, 67-68, 77-78)	
	Number and type of additional circuits			3 solid-state		4 solid-state	
	Breaking capacity in AC-15	Instantaneous outputs	VA	C300: inrush 1800, maintained 180		C300: inrush 1800, maintained 180	
		Time delay outputs	VA	C300: inrush 1800, maintained 180		C300: inrush 1800, maintained 180	
	Breaking capacity in DC-13	Instantaneous outputs		24 V/1.25 A L/R = 50 ms		24 V/1.0 A L/R = 50 ms	
		Time delay outputs		24 V/1.25 A L/R = 50 ms		24 V/1.0 A L/R = 50 ms	
	Breaking capacity of solid-state outputs			24 V/20 mA		–	
	Max. thermal current (Ithe)	Instantaneous outputs	A	3.3 for all 3, or 6 for 1 and 2 for 2, or 4 for 2 and for 2 for 1		5	
		Time delay outputs	A	3.3 for all 3, or 6 for 1 and 2 for 2, or 4 for 2 and 2 for 1		2.5	
	Max. total thermal current		A	20		8	
	Output fuse protection, using fuses conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200	Instantaneous outputs	A	4 gG or 6 fast acting		6 gG	
		Time delay outputs	A	4 gG or 6 fast acting		4 gG	
	Minimum current		mA	10		10	
	Minimum voltage		V	17		17	
Electrical life				See page 2			
Response time on instantaneous opening inputs			ms	< 30		< 20	
Rated insulation voltage (Ui)			V	300 (degree of pollution 2 conforming to EN//IEC 60947-5-1, DIN VDE 0110 parts 1 and 2)			
Rated impulse withstand voltage (Uimp)			kV	4 (overvoltage category III, conforming to EN/IEC 60947-5-1, DIN VDE 0110 parts 1 and 2)			
LED display				11		4	
Operating temperature			°F (°C)	+ 14…+ 131 (- 10…+ 55)			
Storage temperature			°F (°C)	- 13…+ 267.8 (- 25…+ 85)			
Degree of protection conforming to IEC/EN 60529	Terminals			IP 20			
	Enclosure			IP 40			
Connections	Type			Captive screw clamp terminals	Captive screw clamp terminals, removable terminal block	Captive screw clamp terminals	Captive screw clamp terminals, removable terminal block
	1-wire connection	Without cable end		Solid or flexible cable: 26-14 AWG (0.14 - 2.5 mm²)	Solid or flexible cable: 24-14 AWG (0.20 - 2.5 mm²)	Solid or flexible cable: 26-14 AWG (0.14 - 2.5 mm²)	Solid or flexible cable: 24-14 AWG (0.25 - 2.5 mm²)
		With cable end		Without bezel, flexible cable: 24-14 AWG (0.25 - 2.5 mm²)			
				With bezel, flexible cable: 24-16 AWG (0.25 - 1.5 mm²)	With bezel, flexible cable: 24-14 AWG (0.25 - 2.5 mm²)	With bezel, flexible cable: 24-16 AWG (0.25 - 1.5 mm²)	With bezel, flexible cable: 24-14 AWG (0.25 - 2.5 mm²)
	2-wire connection	Without cable end		Solid or flexible cable: 26-20 AWG (0.14 - 0.75 mm²)	Solid cable: 24-18 AWG (0.2 - 1.0 mm²) Flexible cable: 24-16 AWG (0.20 - 1.5 mm²)	Solid or flexible cable: 26-20 AWG (0.14 - 0.75 mm²)	Solid cable: 24-18 AWG (0.2 - 1.0 mm²) Flexible cable: 24-16 AWG (0.20 - 1.5 mm²)
		With cable end		Without bezel, flexible cable: 24-18 AWG (0.25 - 1.0 mm²)			
				Double, with bezel, flexible cable: 22-14 AWG (0.5 - 1.5 mm²)			

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References

Safety automation system solutions
Preventa™ safety relay modules types XPSAV, XPSATE
For Emergency stop and switch monitoring

XPSAV11113

XPSAV11113P

XPSAT●●●●

References						
Description	**Number of safety circuits**	**Additional outputs**	**Supply**	**Type of terminal block connection**	**Reference**	**Weight** oz (kg)
Safety modules for Emergency stop and switch monitoring	6 N.O. (3 N.O. time delay)	3 solid-state	⎓ 24 V	Integrated in module	**XPSAV11113**	11.288 (0.320)
	6 N.O. (3 N.O. time delay)	3 solid-state	⎓ 24 V	Removable from module	**XPSAV11113P**	11.288 (0.320)
	5 N.O. (3 N.O. time delay)	4 solid-state	∿/⎓ 24 V	Integrated in module	**XPSATE5110**	9.877 (0.280)
				Removable from module	**XPSATE5110P**	9.877 (0.280)
			∿ 115 V	Integrated in module	**XPSATE3410**	13.404 (0.380)
				Removable from module	**XPSATE3410P**	13.404 (0.380)
			∿ 230 V	Integrated in module	**XPSATE3710**	13.404 (0.380)
				Removable from module	**XPSATE3710P**	13.404 (0.380)

XPSAV safety relays are suitable for use in circuits through Category 4 per EN 954-1 and ISO 13849-1.

XPSAT safety relays are suitable for use in circuits through Category 4 per EN 954-1 and ISO 13849-1 when instantaneous break contacts are used.

XPSAT safety relays are suitable for use in circuits through Category 3 per EN 954-1 and ISO 13849-1 when time delay break contacts are used.

Safety automation system solutions
Preventa™ safety relay modules type XPSAV
For Emergency stop and switch monitoring

XPSAV

Module XPSAV associated with an Emergency stop button with 1 N.C. contact, automatic start or unmonitored start
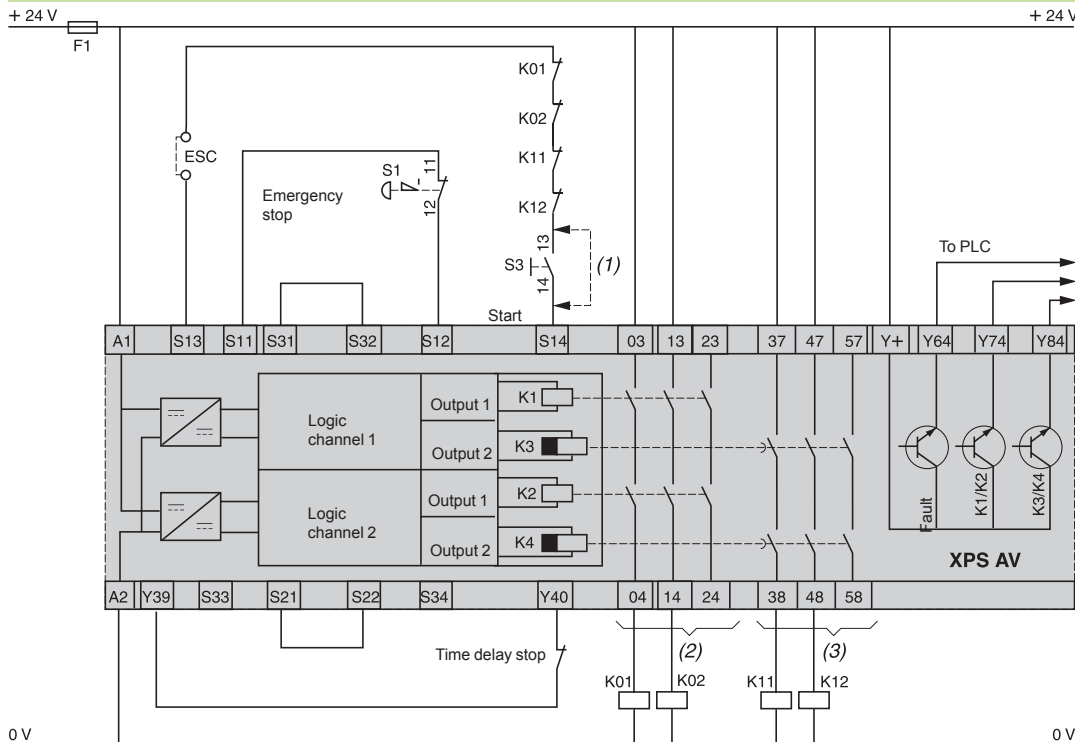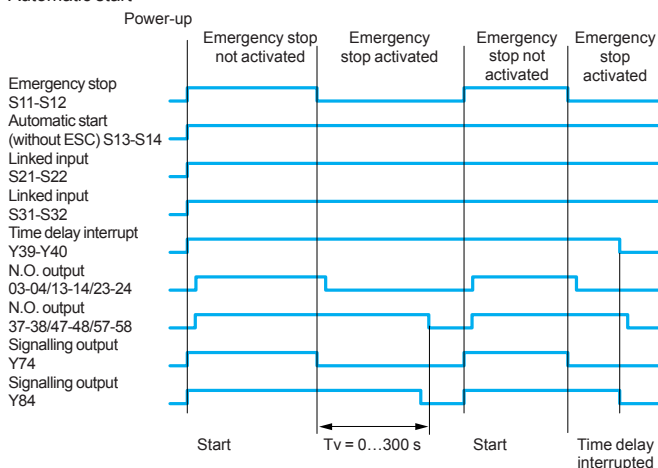

(1) Jumper for automatic start.
(2) Instantaneous opening safety outputs (stop category 0).
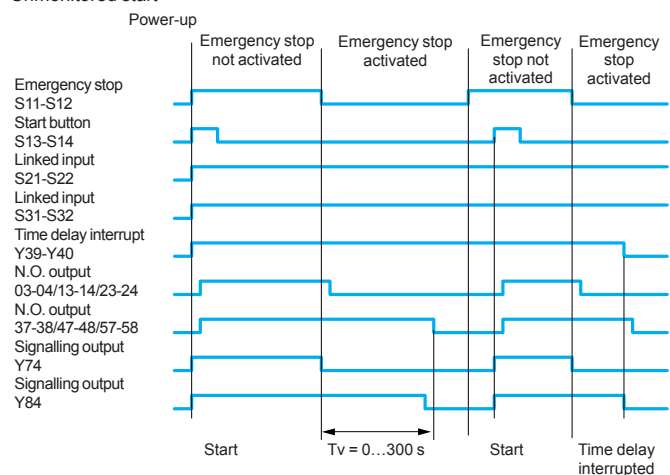(3) Time delay opening safety outputs (stop category 1).
ESC = External start conditions.

Functional diagrams

Automatic start

Unmonitored start

Automatic start
There is no start contact or it is jumpered (wiring between terminals S13 - S14).
Note: Automatic start function is not available on the XPSAV with 2 channel wiring on the inputs. Automatic start function is only available on single channel wiring on the inputs.

Unmonitored start
The output is activated on closing of the start contact (wiring between terminals S13 - S14).

Monitored start
The start input is monitored so that there is no start-up in the event of the start contact being jumpered or the start circuit being closed for more than 10 seconds.
Start-up is triggered following activation of the start button (push-release function) on opening of the contact (wiring between terminals S33 - S34).

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Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSAV
For Emergency stop and switch monitoring

XPSAV

Module XPSAV associated with an Emergency stop button with 2 N.C. contacts, monitored start
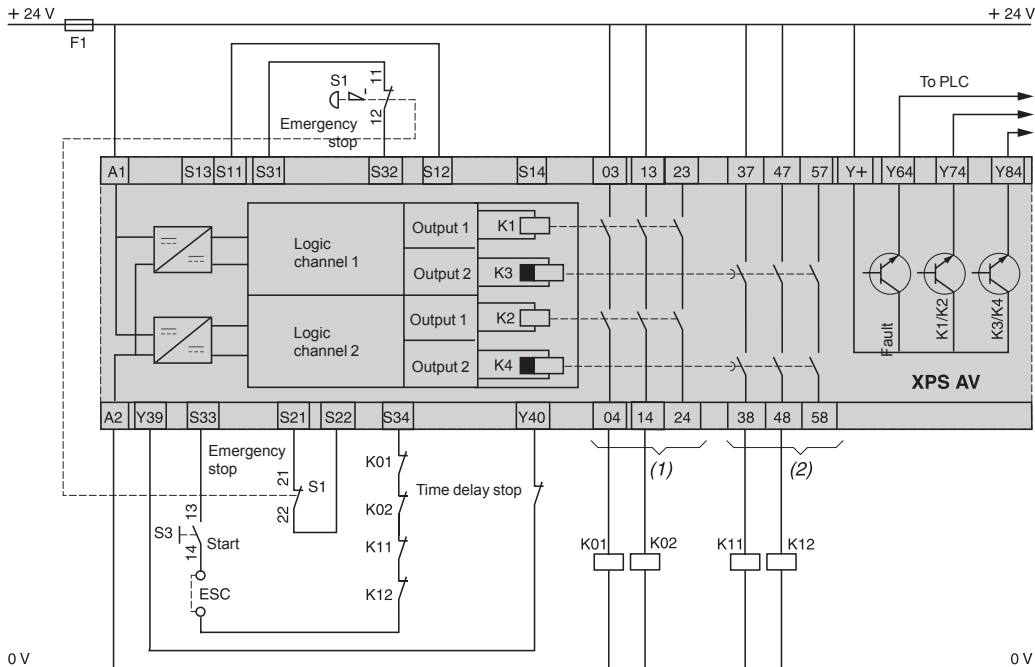
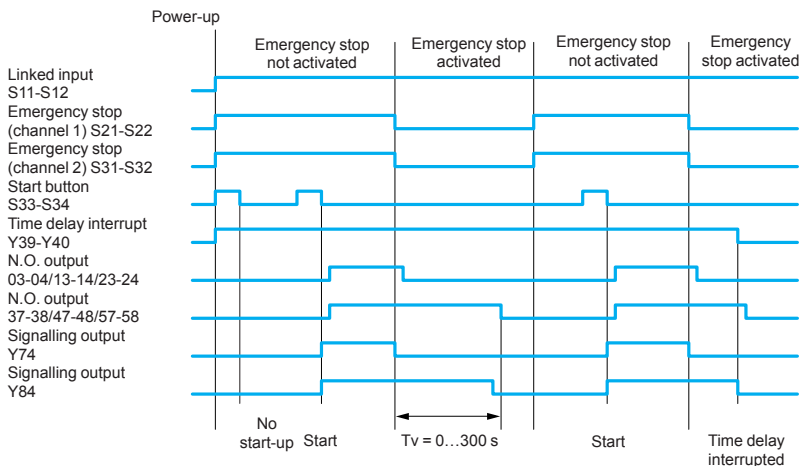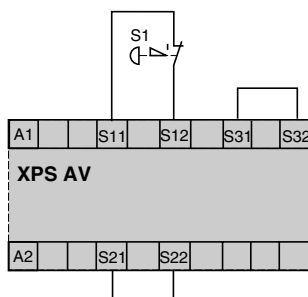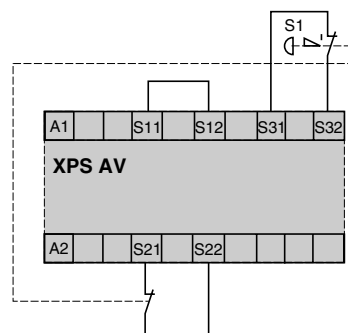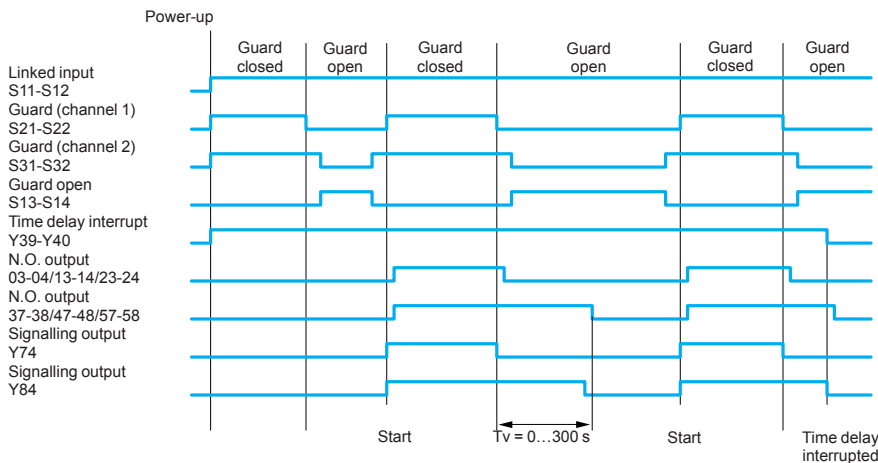(1) Instantaneous opening safety outputs (stop category 0).
(2) Time delay opening safety outputs (stop category 1).
ESC = External start conditions.
Note: Automatic start function is not available on the XPSAV with 2 channel wiring on the inputs. Automatic start function is only available on single channel wiring on the inputs.

Functional diagram

Monitored start

Emergency stop monitoring function configuration

1-channel wiring

2-channel wiring, with short-circuit detection

Principles: page 3	Characteristics: page 3	References: page 5	Wiring Diagrams: page 6	Dimensions: page 17

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSAV
For Emergency stop and switch monitoring

XPSAV

Monitoring of a movable guard associated with 2 switches
Automatic start (diagram shown for guard closed)
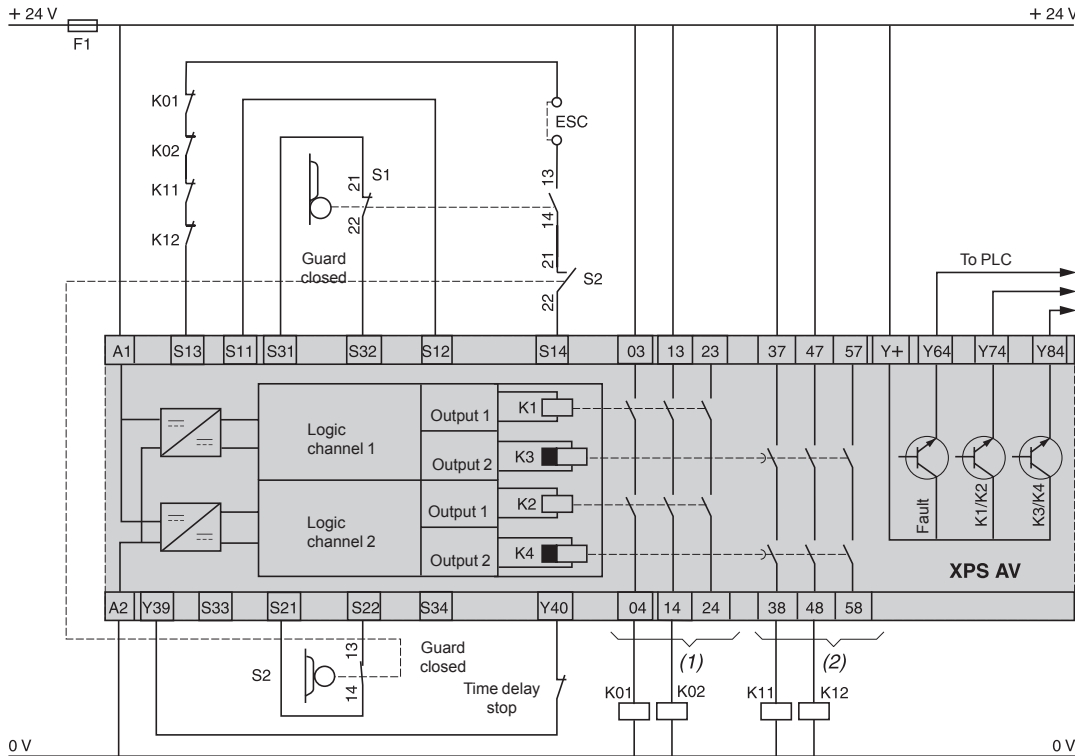
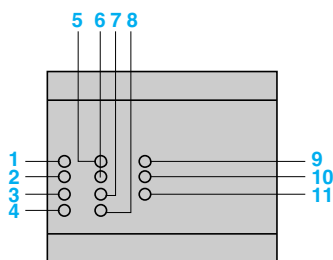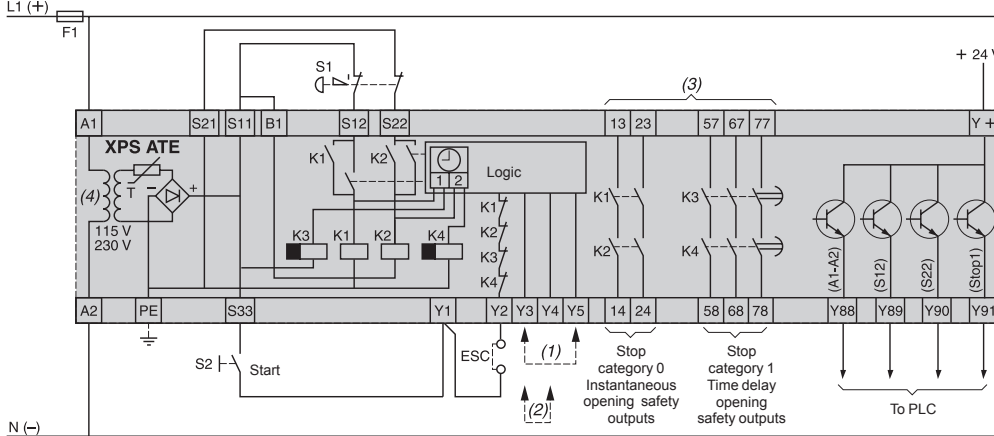(1) Instantaneous opening safety outputs (stop category 0).
(2) Time delay opening safety outputs (stop category 1).
ESC = External start conditions.

Functional diagram

LED details

1 S12 input status.
2 S22 input status.
3 S32 input status.
4 S34 input status.
5 S14 input status.
6 Y40 input status (time delay stop).
7 K1/K2 status (N.O. instantaneous opening safety outputs).
8 K3/K4 status (time delay opening safety outputs).
9 Supply voltage A1-A2.
10 Fault.
11 Configuration mode

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSATE
For Emergency stop and switch monitoring

XPSATE

Module XPSATE associated with an Emergency stop button

S1: Emergency stop button with 2 N.C. contacts (recommended application).
S2: Start button.
ESC: External start conditions.
Y1 (S33) - Y2: Feedback loop.
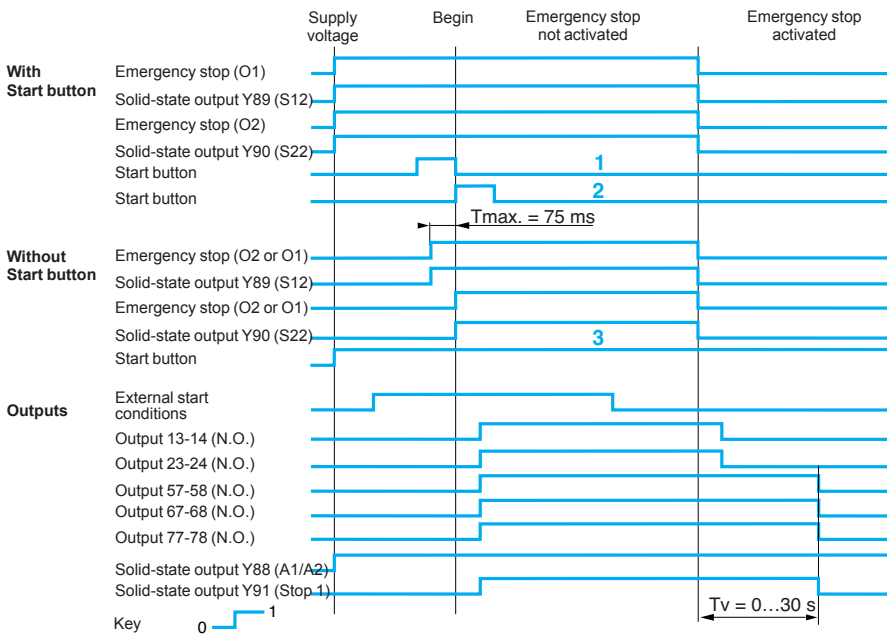F1: 4 A max.
(1) With start button monitoring.
(2) Without start button monitoring.
(3) The outputs must be fuse protected. Technical characteristics for maximum rating of fuses, see page 4.
(4) ∿ 115/230 V only.
(5) For automatic start, jumper S2 (N.O. start button between terminals S33-Y1). This is only feasible when configured without start button monitoring (Y3 and Y4 jumpered). If S2 is jumpered and the module is configured for start button monitoring (Y3 and Y5 jumpered), the N.O. safety contacts will not close.

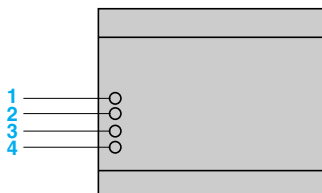**Functional diagram of module XPSATE with Emergency stop button monitoring**

1   With start button monitoring (Y3-Y5 connection).
2   Without start button monitoring (Y3-Y4 connection).
3   Without start button (connection Y3-Y4 and S33-Y1).
Tv: adjustable time.

Description of LEDs

1 Supply voltage A1-A2, internal electronic fuse status.
2 S12 (A) input status.
3 S22 (B) input status.
4 Stop category 1 outputs closed.

Principles: page 3	Characteristics: page 3	References: page 5	Wiring Diagrams: page 6	Dimensions: page 17

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSATE
For Emergency stop and switch monitoring

XPSATE

Example of a safety circuit combining an Emergency stop module with a variable speed drive
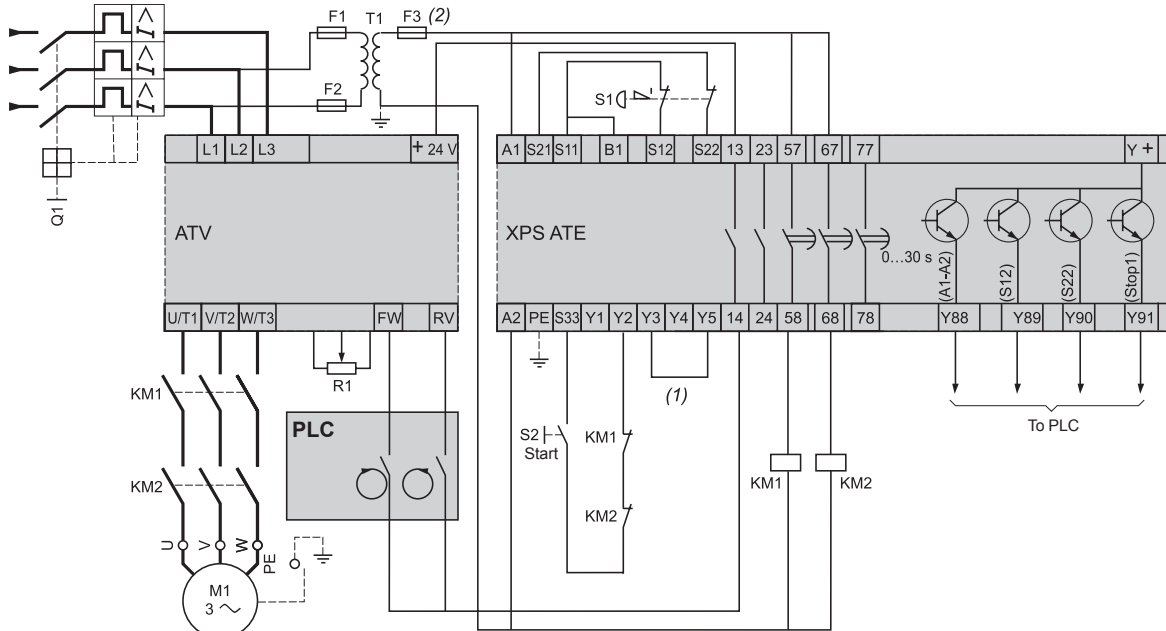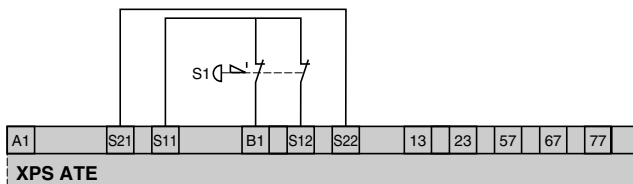

S1: Emergency stop button with 2 N.C. contacts (recommended application).
S2: Start button
(1) With start button monitoring.
(2) Technical characteristics for maximum rating of fuses, see page 4.
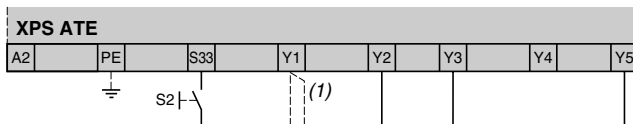
Connection with 1 Emergency stop button

Both input channels are supplied at the same potential.
S1: Emergency stop button with 2 N.C. contacts.
A short-circuit between the 2 inputs is not detected.

Connection with multiple Emergency stop buttons

The 2 input channels are supplied at different potentials.
A short-circuit between the 2 inputs is detected.

Configuration with start button monitoring
(functional diagram for Start button 1,
see *page 9*)

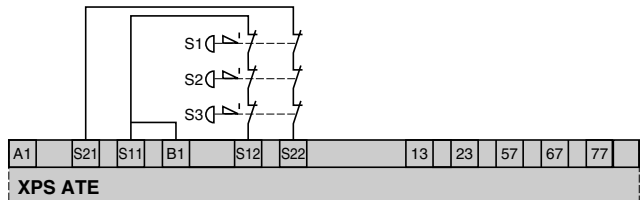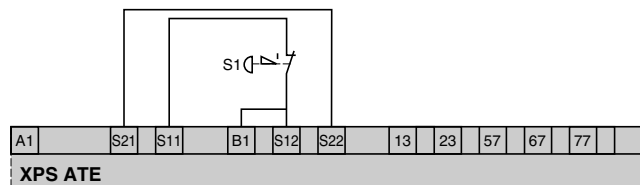*(1) Auxiliary terminal (to be used to separate the feedback loop from the wiring to the start button).*

Monitoring an Emergency stop button with 1 N.C. contact

S1: Emergency stop button with 1 N.C. contact.
Not all faults are detected: a short-circuit on the Emergency stop button is not detected.

Configuration without start button monitoring
(functional diagram for Start button 2,
see *page 9*)

(1) Auxiliary terminal (to be used to separate the feedback loop from the wiring to the start button).

Operating principle

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection

Operating principle

Preventa™ safety relay modules type XPSVNE for zero speed detection are used to detect the stop condition of electric motors. Their most common applications include: providing the unlock signal for electrically interlocked sliding or removable machine guards, controlling rotation direction signals for reversing motors and engaging locking brakes after a motor has come to a standstill.

As electric motors run down, a remanent voltage is produced in the windings of the motor due to residual magnetism. This voltage is proportional to the speed of the motor and, therefore, decreases as the motor comes to a standstill.
This remanent voltage is measured in a redundant manner so as to detect the stop condition of the motor. The cabling between the motor windings and the inputs of the XPSVNE module is also monitored to prevent a cabling breakage or anomaly being seen as a stopped motor.
A transformer should not be used to connect the motor to terminals Z1, Z2 and Z3 since there is no monitoring of the connection with the motor winding via the resistance monitoring.

Modules XPSVNE are suitable for detecting the stop condition of all types of a.c. or d.c. motor driven machines which, when the motor runs down, produce a remanent voltage in the windings due to residual magnetism. These machines can be controlled by electronic devices, such as variable speed drives or d.c. injection brakes.
The input filters for standard XPSVNE modules are designed for a frequency of up to 60 Hz.
For motors operating at a frequency higher than 60 Hz, which therefore produce a high frequency remanent voltage, special modules XPSVNE●●●●HS should be used.

The XPSVN is not compatible with Wound Rotor Motors. These motors are typically used in high HP (1000+) low speed applications, where the additional windings (required for these types of motors) pay for themselves. If power is removed from stator, but rotor is left energized, then transformer coupling between the two could create a small voltage across the stator. This could make the XPSVN think the motor is still turning, which means the safety outputs would never energize or change state. These motors do not have residual magnetism in the rotor that can act as a source of flux for generator effect, in which case the XPSVN may think the motor is at zero speed, and could energize the safety outputs while the motor is still running. Wound Rotor motors are not in common use today, and very rare.

The XPVN is not designed to detect locked rotor conditions. Here the motor still has voltage applied to it, but in essence has zero speed. Generally, a locked rotor condition is not a safe state for machinery nor the operators. The XPSVN will sense voltage applied to the windings, and will not indicate the motor's "apparent" zero speed. The outputs of the XPSVN will not change state, the gates or guards will not be unlocked, and operators will not be allowed access to the unsafe area.

Modules XPSVNE have 2 potentiometers mounted on the front cover of the module which allow independent adjustment of the switching threshold for each input circuit. This allows adjustment for different types of motors and application requirements.
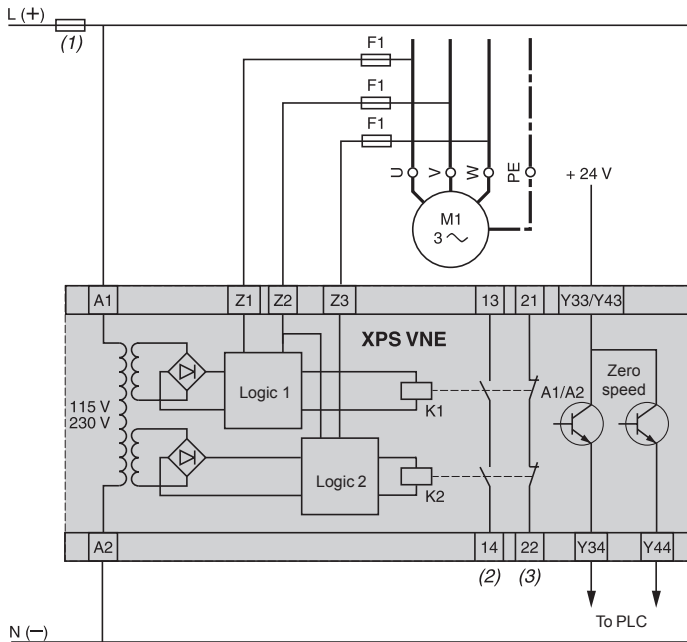
To aid diagnostics, modules XPSVNE have 4 LEDs and 2 solid-state outputs to provide information on the status of the zero speed detection circuit.

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection

Characteristics

Module type			XPSVNE
Product designed for max. use in safety related parts of control systems (conforming to EN 954-1/ISO 13849-1)			Category 3 max.
Conformity to standards			EN 60204-1, EN/IEC 60947-5-1, EN 50082-2
Product certifications			UL, CSA, BG
Supply	Voltage	V	$-$ 24 $\sim$ 115 $\sim$ 230
	Voltage limits		- 15…+ 10% ($-$ 24 V) - 15…+ 15% ($\sim$ 115 V) - 15…+ 10% ($\sim$ 230 V)
	Frequency	Hz	50/60 (115 V, 230 V)
Power consumption		W	≤ 3.5 ($-$ 24 V)
		VA	≤ 7.5 ($\sim$115 V), ≤ 7 ($\sim$ 230 V)
Frequency of motor power supply		Hz	≤ 60 Hz (XPSVN●●42), > 60 Hz (XPSVN●●42HS)
Inputs	Maximum voltage between terminals Z1 - Z2 - Z3	V	500 rms
	Detection threshold	V	0.01 - 0.1 (adjustable)
Outputs	Voltage reference		Hard contacts
	Number and type of safety circuits		1 N.O. (13-14), 1 N.C. (21-22)
	Number and type of additional circuits		2 solid-state
	Breaking capacity in AC-15		C300 (inrush: 1800 VA/maintained: 180 VA)
	Breaking capacity in DC-13		24 V/1.5 A - L/R = 50 ms (contact 13-14) 24 V/1.2 A - L/R = 50 ms (contact 21-22)
	Breaking capacity of solid-state outputs		24 V/20 mA, 48 V/10 mA
	Max. thermal current (Ithe)	A	2.5
	Output fuse protection	A	4 gG, conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200
	Minimum current (volt-free contact)	mA	10
	Minimum voltage (volt-free contact)	V	17
Electrical life			See page 2
Rated insulation voltage (Ui)		V	300 (degree of pollution 2 conforming to EN/IEC 60947-5-1, DIN VDE 0110 parts 1 & 2)
Rated impulse withstand voltage (Uimp)		kV	4 (overvoltage category III, conforming to EN//IEC 60947-5-1, DIN VDE 0110 parts 1 & 2)
LED display			4
Operating temperature		°F (°C)	+ 14…+ 131 (- 10…+ 55)
Storage temperature		°F (°C)	- 13…+ 185 (- 25…+ 85)
Degree of protection Conforming to IEC 60529	Terminals		IP 20
	Enclosure		IP 40
Connection	Type		Captive screw clamp terminals, removable terminal block
	1-wire connection	Without cable end	Solid or flexible cable: 24-14 AWG (0.2…2.5 mm²)
		With cable end	Without bezel, solid or flexible cable: 24-14 AWG (0.25…2.5 mm²)
			With bezel, solid or flexible cable: 24-14 AWG (0.25…2.5 mm²)
	2-wire connection	Without cable end	Solid cable: 24-18 AWG (0.2…1 mm²), flexible cable: 24-16 AWG (0.2…1.5 mm²)
		With cable end	Without bezel, flexible cable: 24-18 AWG (0.25…1 mm²)
			With bezel, flexible cable: 22-14 AWG (0.5…1.5 mm²)

References

XPSVNE

Description	Number of safety circuits	Solid-state outputs for PLC	Supply	Frequency of motor power supply	Reference	Weight oz (kg)
Safety modules for zero speed detection	2	2	$-$ 24 V	≤ 60 Hz	**XPSVNE1142P**	17.637 (0.500)
				> 60 Hz	**XPSVNE1142HSP**	17.637 (0.500)
			$\sim$ 115 V	≤ 60 Hz	**XPSVNE3442P**	21.164 (0.600)
				> 60 Hz	**XPSVNE3442HSP**	21.164 (0.600)
			$\sim$ 230 V	≤ 60 Hz	**XPSVNE3742P**	21.164 (0.600)
				> 60 Hz	**XPSVNE3742HSP**	21.164 (0.600)

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Schneider Electric

Wiring diagrams

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection

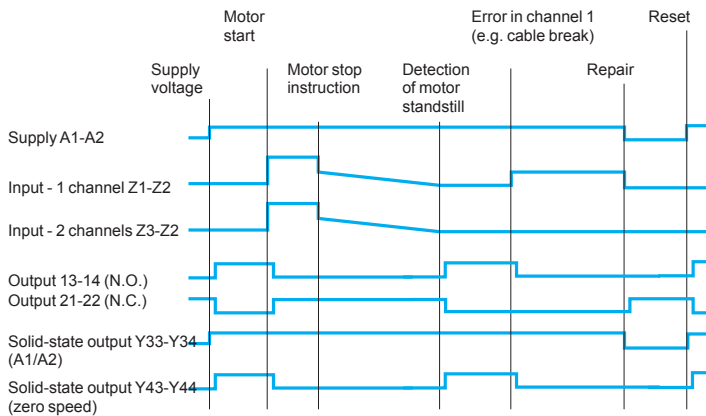### XPSVNE
Wiring diagram

(1) Technical characteristics for establishing maximum rating of fuses, see page 12.
(2) Contacts are open when motor is running, closed when motor is stopped.
(3) Contacts are closed when motor is running, open when motor is stopped.
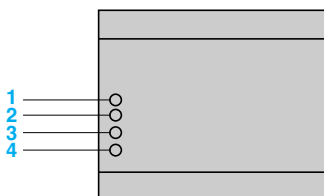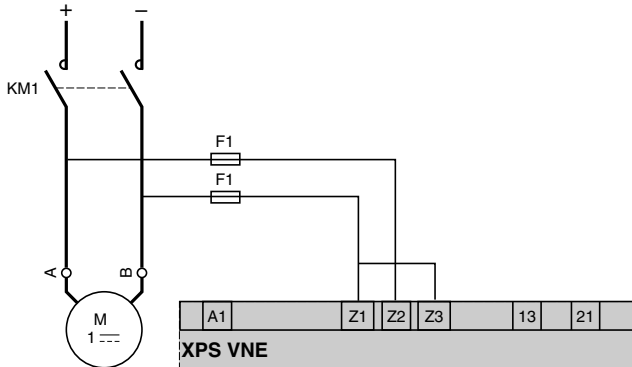F1 = 2 A

Functional diagram of module XPSVNE

Key 0 ⎍ 1
The voltages at terminals Z1, Z2 and Z3 are indicated solely for the purposes of schematic diagram representation.

LED details

1 Supply voltage A1-A2.
2 Stop detected by channel 1.
3 Stop detected by channel 2.
4 Motor stop condition detected by both channels within time window.

Principles: page 11	Characteristics: page 12	References: page 12	Wiring Diagrams: page 13	Dimensions: page 17

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection

Module XPSVNE associated with a d.c. motor

F1 = 2 A

Module XPSVNE associated with a 3-phase motor
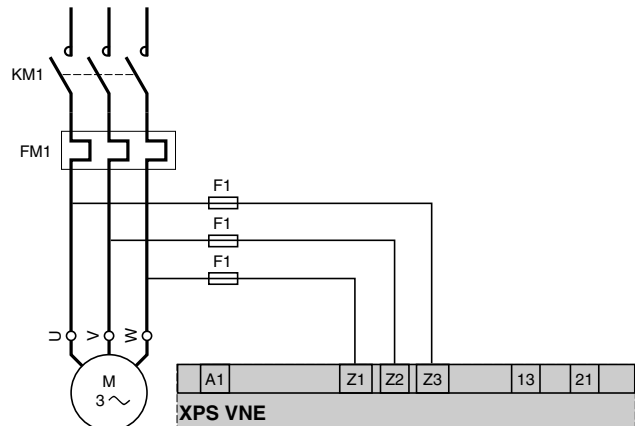
F1 = 2 A

Module XPSVNE associated with a 3-phase motor + variable speed drive
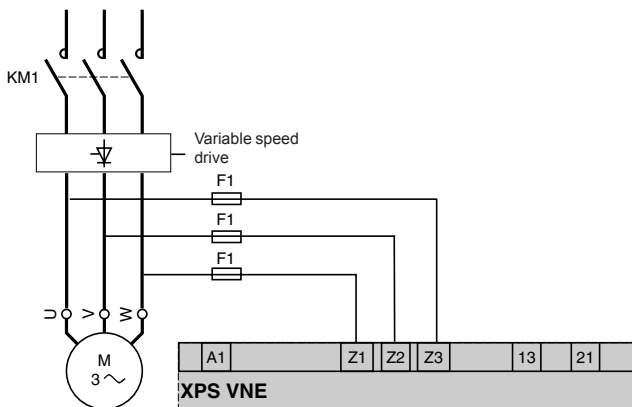
F1 = 2 A

Module XPSVNE associated with a 3-phase motor with start-delta starting
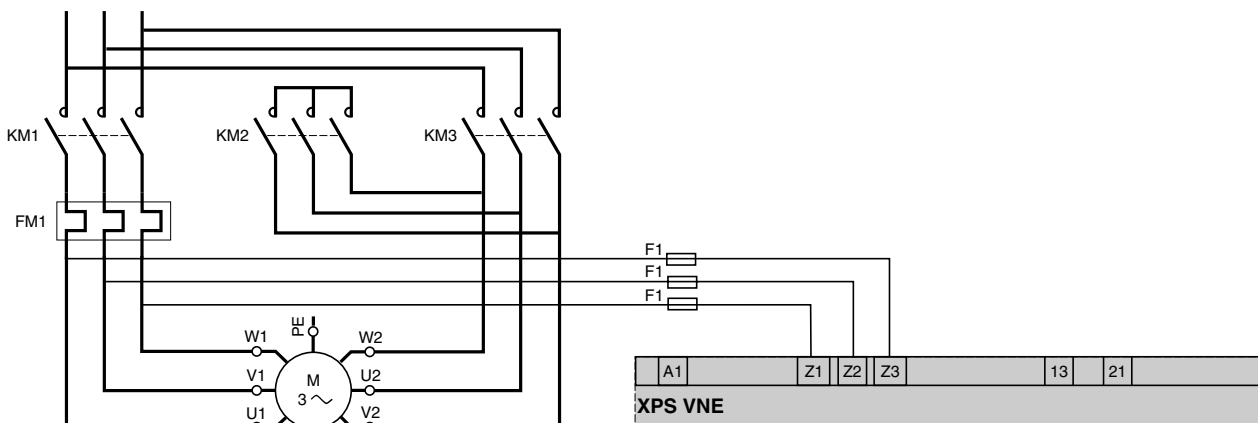
F1 = 2 A
KM1: Fast rotation speed
KM2: Slow rotation speed
KM3: Star
The "Star" contactor (KM3) must be closed after the motor is de-energized, in order to allow detection of zero speed.

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Electric

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection

Module XPSVNE associated with a 3-phase motor with variable number of poles and star-delta starting
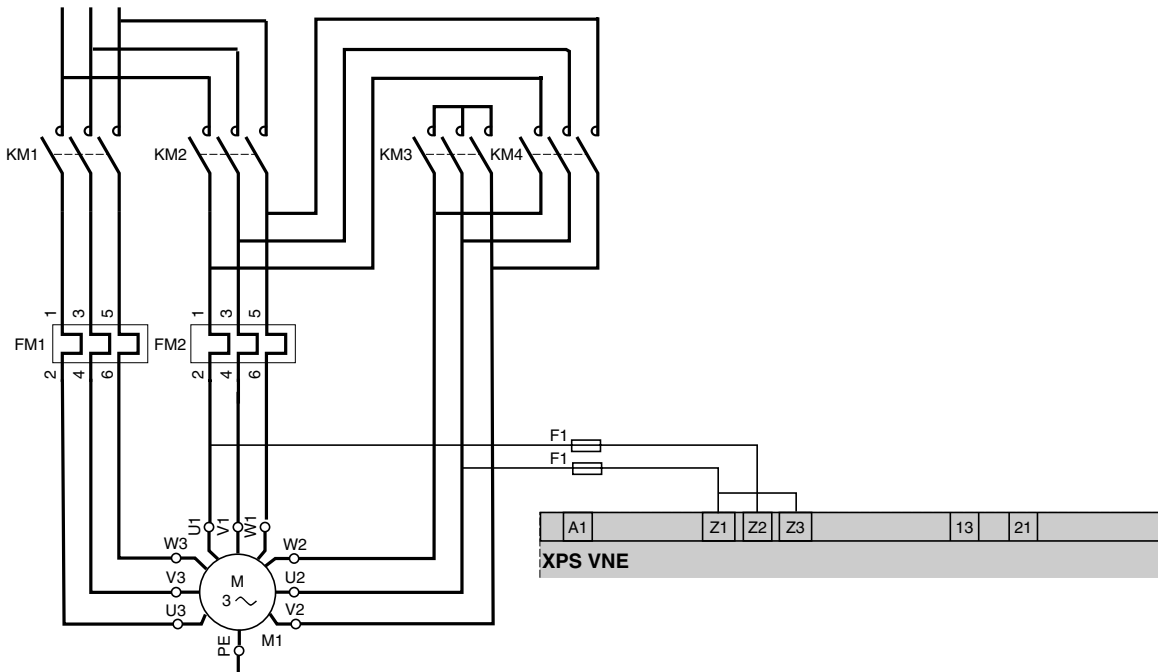
F1 = 2 A
KM1: Fast rotation speed
KM2: Slow rotation speed
KM3: Star
KM4: Delta

Module XPSVNE associated with a star-delta motor starter and guard switch type XCS E

Wiring diagrams (continued)

Safety automation system solutions
Preventa™ safety relay modules type XPSVNE
For zero speed detection
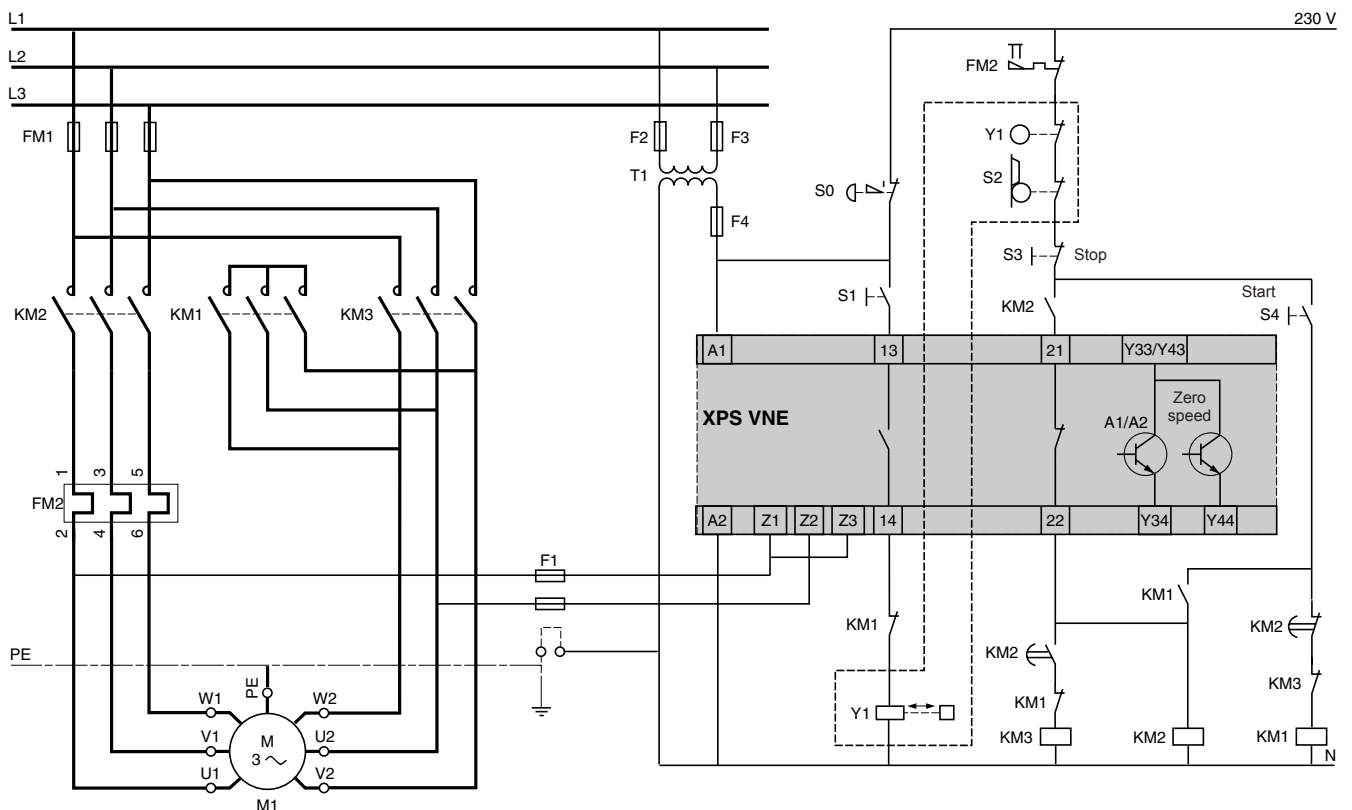
Association of safety modules XPSVNE and XPSAK

S1 + Y1: Guard switch with solenoid locking without
power, type XCSE or XCSL

Pulse on de-energization relay
XPSTSW

Safety automation system solutions
Preventa™ safety modules
AM1 DP200 rail mounting

Dimensions

XPSBA

3.07
78

4.72
120

0.89
22.5

XPSBC, XPSDA

3.07
78

3.07
78

4.72
120

1.77
45

XPSECM, XPSECP

3.07
78

3.07
78

4.72
120

3.54
90
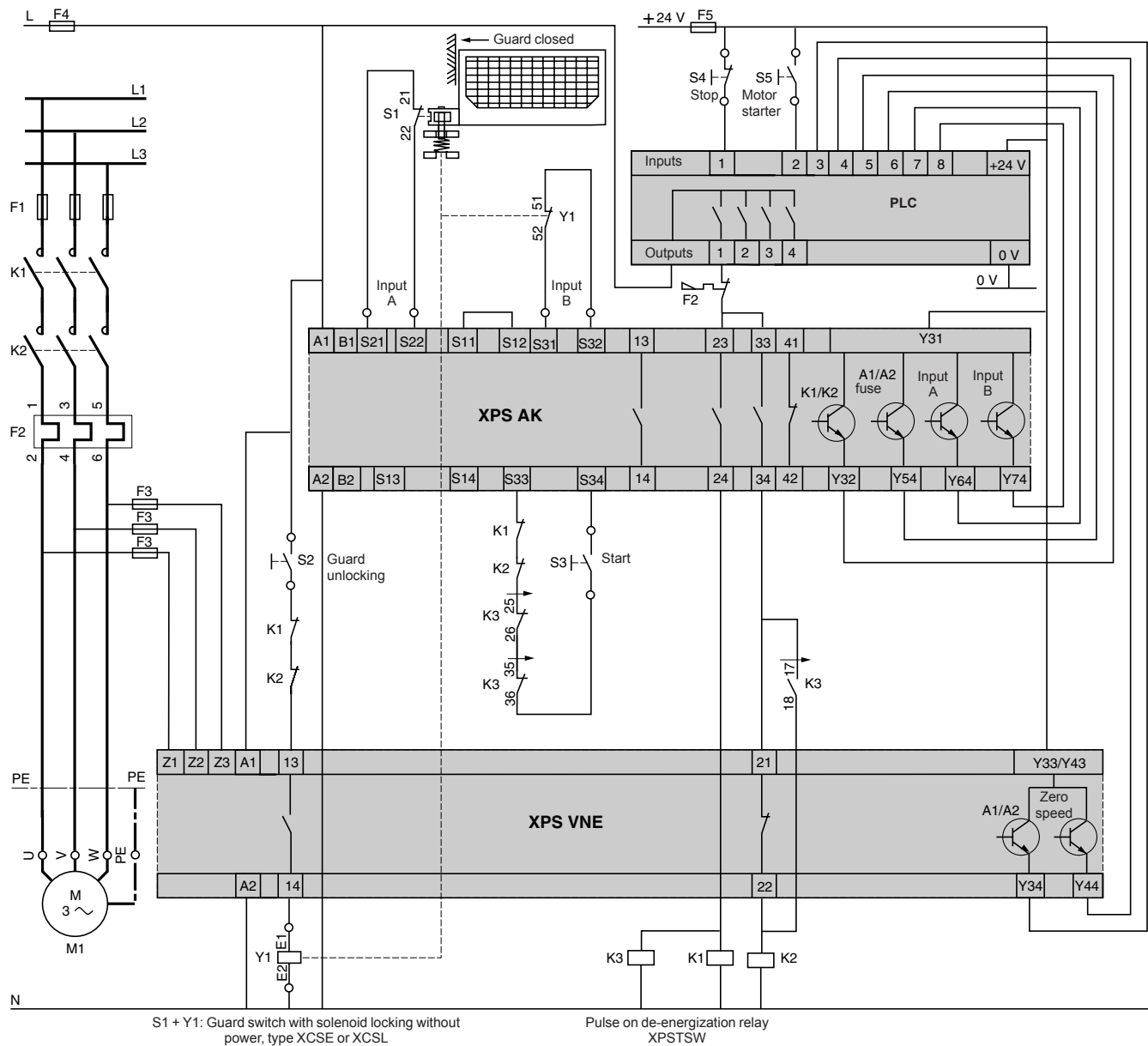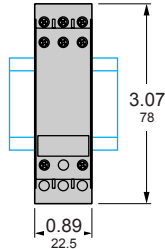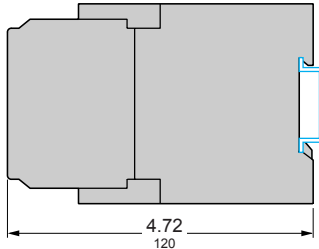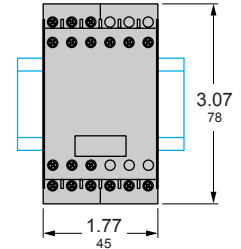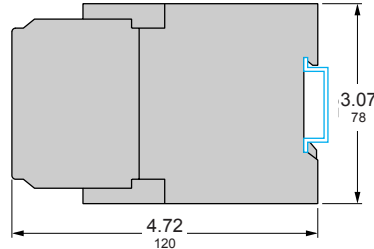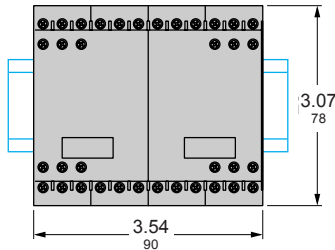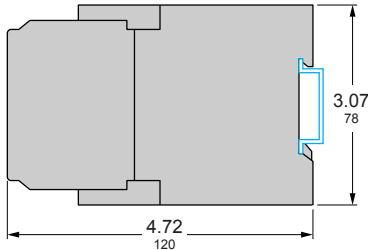
XPSAC●●●●, XPSAF●●●●, XPSAFL●●●●, XPSDMB●●●●, XPSVC●●●●, XPSBF●●●●

3.90
99

4.49
114

0.89
22.5
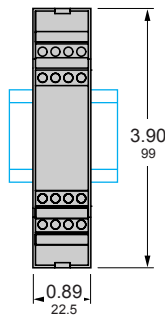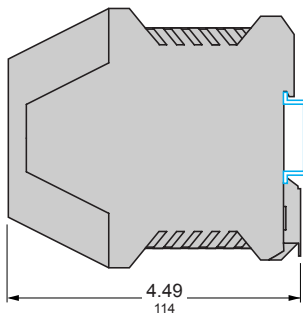
XPSAC●●●●P, XPSAF●●●P●, XPSAFL●●●●P, XPSDMB●●●●P, XPSVC●●●●P, XPSBF●●●●P

3.90
99

4.49
114

0.89
22.5
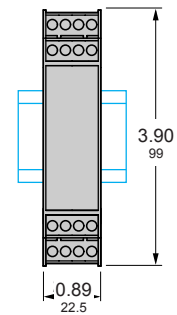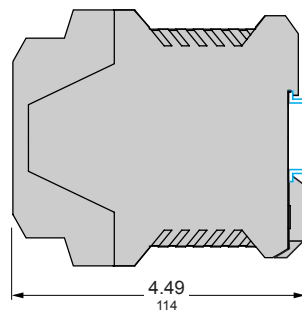
XPSAK●●●●, XPSAV●●●●, XPSCM●●●●, XPSDME●●●● XPSATE●●●●

3.90
99

4.49
114

1.77
45
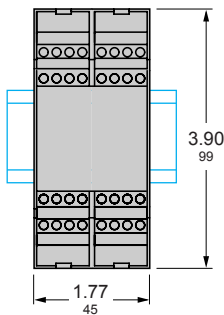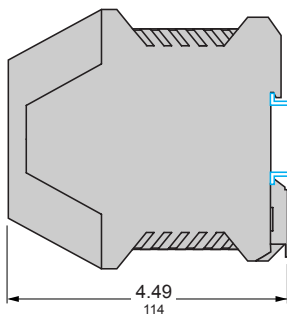
XPSAK●●●●P, XPSAV●●●●P, XPSCM●●●●P, XPSTSA●●●P, XPSTSW●●●●P, XPSDME●●●●P, XPSATE●●●●P, XPSVNE●●●●P

3.90
99

4.49
114

1.77
45
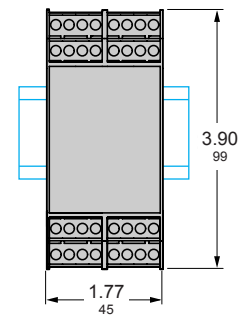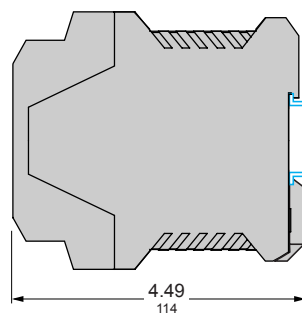
Dual Dimensions: INCHES
Millimieters

Schneider Electric

Schneider Electric

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Photos: Schneider Electric

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