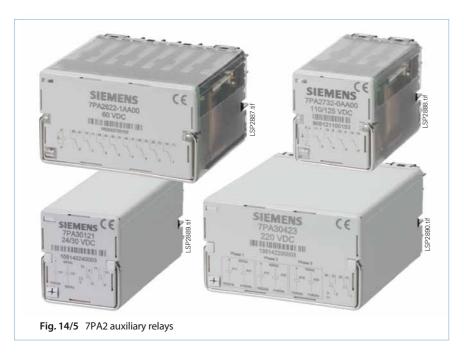
7PA26/27/30

Auxiliary Relays for Various Applications/Trip Circuit Supervision



Due to their quality, reliability and design, these relays are optimal for applications requiring high reliability and availability such as power stations, substations, railway and industrial plants. Typical examples include petrochemical industry, chemical industry, cement industry, rolling mills etc.

The relays comply with the IEC, EN, IEEE standards (type and routine test) and bear the CE mark.

The robust switch contacts are characterized by high make/break capacity, overload capability and continuous current intensity capacity; thus perfect insulation is obtained. Direct control of high-voltage and medium-voltage switchgear is possible.

Technical data for 7PA26 and 7PA27

Switching contacts

Continuous current 10 A 80 A/200 ms Overload capability 150 A/10 ms Switching current/voltage 40 A/0.5 s/110 V DC

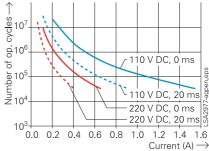
Breaking capacity for 10⁵ operating cycles

Breaking capacity for 10 operating cycles							
	Non-indu	ıctive	Inductive, 20 ms				
	1 contact	2 contacts in series	1 contact	2 contacts in series			
V DC	A	A	A	A			
24	6.6	12.7	3.2	6.0			
60	2.6	4.9	1.4	2.7			
125	1.2	2.2	0.6	1.1			
220	0.6	1.1	0.3	0.6			

For details see characteristics

Vmax, open contact Mechanical service life Operating temperature

250 V DC/400 V AC 10⁷ operating cycles - 10 °C to + 55 °C 14 °F to 131 °F Max. permissible humidity 93 % at 40 °C/104 °F



Technical data for 7PA30

Permanent current Instantaneous current 15 A

15 A/4 s/110 V DC Making capacity Breaking capacity 0.3 A/110 V DC $U_{\rm max}$ opened contact 250 V DC/400 V AC 10⁷ operations Mechanical life Operating temperature -10 °C +55 °C -30 °C +70 °C Storage temperature 93 %/40 °C Operating humidity

Electrical test performed acc. to IEC 60255-5 Dielectric test 2 kV / 50 Hz / 1 min Surge withstand test 5 kV / 1.2 / 50 μs $>\!\!100~\text{M}\Omega$ / 500~V DC Insulation

UL94: VO

Inflammability tests Plastic materials

Degree of protection Relay: IP40

acc. to IEC 60529

Climatic stress test acc. to IEC 60068-2 Dry cold, operation - 10 °C + 55 °C Dry heat, operation Storage and transport $-25 \,^{\circ}\text{C} + 70 \,^{\circ}\text{C}$



7PA30 Single-phase Trip circuit supervision

Description

The relay is for supervision of the trip circuit of a circuit breaker with one trip coil. The trip circuit wiring is supervised from the positive supply to the negative supply whilst the circuit breaker is open or closed.

Functions

The design, quality and rugged construction of the relay make it suitable for applications requiring high levels of reliability/ dependability. The high degree of protection guarantees reliable operation over a wide temperature range, even under extreme environmental conditions.

The relay has been tested in accordance with IEC, EN and IEEE standards. The relay is CE marked. The supervision current is always less than 1.4 mA thus avoiding unwanted operation of the trip coil. Correct operation is shown via a green LED.

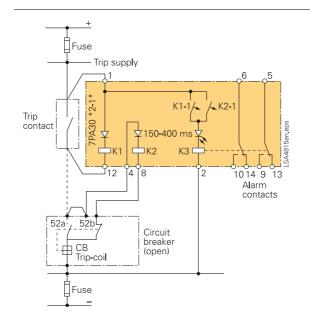


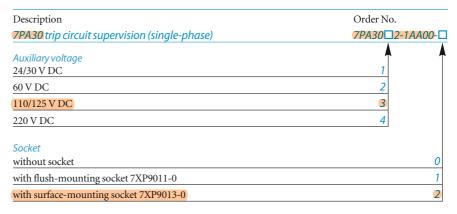
Fig. 14/9 Connection diagram for 1-phase relay

Standard voltages and consumption

$V_{ m N}$	Voltage range	Consumption	Impedance per phase	Pickup Drop out V	Pickup Drop out Voltage	
V DC	V DC	mA	$k\Omega/s$	V DC		
14/30	18 - 33	32	20	between	12 and 18	
60	42 - 66	18	44		36 and 42	
110/125	77 - 138	18	94		66 and 77	
220	154 - 275	13	200		132 and 154	

Drop-out time: between 150 ms and 400 ms

Selection and ordering data



Accessories

Description	Order No.		
Socket as spare part			
Flush mounting	7XP9011-0		
Surface mounting	7XP9013-0		

