3UG4 Monitoring Relays

for fault current monitoring

Over time, systems may experience insulation problems caused by humidity or severe contamination. These problems cause fault currents which may result in fatal system damage.

Using the 3UG4624 fault current monitoring relay in combination with a 3UL22 summation current transformer, such hazards can be eliminated. Due to adjustable limit or warning threshold values, the relay issues a warning before the limit value is reached and switches off when the limit value is exceeded after a certain delay time.



Your advantages:

- Global applicability due to wide voltage range from 90 V AC to 690 V AC
- Variably adjustable threshold values for warning and disconnection
- Freely parameterizable delay times and reset behavior
- Permanent display of the actual value and fault diagnostics via display
- Removable terminal and optional screw terminal or innovative spring-loaded terminal
- High flexibility and space savings due to the converter's assembly outside the control cabinet

Application areas:

Monitoring of systems prone to fault currents, e.g. caused by:

- Dust deposits or humidity
- Porous cables and lines
- Capacitive fault currents



3UG4 monitoring relays – for fault current monitoring										
Display range	Setting ranges for warning and disconnection	Hysteresis with treshold value	Hysteresis with warning value	Contacts	ON delay	Tripping delay time	Rated control supply voltage V _s 1)	Order No.		
Width 22.5 mm, digitally adjustable featuring LC display, connectable fault memory, monitoring of warning threshold and limit value exceedance, for 3UL22 summation current transformer with IDn from 0.3 to 40 A										
10 to 120% of the nominal transformer value in A	10 to 100 % of the nominal transformer value in A	Display accuracy of up to 50% of the nominal trans- former value in A	5% fixed of the nominal transformer value in A	1 CO + 1 CO	0.1–20.0 s	0.1–20.0 s	90–690 V AC	3UG4624-□CS20		
¹⁾ Absolute limits Screw terminal Spring-loaded terminal 2										

3UL22 summation current transformer for external ground fault monitoring										
Rated insulation voltage U _i	Rated fault current $I_{\Delta n}$	Inlet opening diameter	For Protodur cable (can be passed through)	Order No.						
Detection of fault currents in machines and systems										
AC 690 V	0.3 A	40 mm	max. 4 x 95 mm ²	3UL2201-1A						
	0.5 A			3UL2201-2A						
	1 A			3UL2201-3A						
AC 690 V	0.3 A	65 mm	max. 4 x 240 mm ²	3UL2202-1A						
	0.5 A			3UL2202-2A						
	1 A			3UL2202-3A						
	6 A			3UL2202-1B						
	10 A			3UL2202-2B						
	16 A			3UL2202-3B						
	25 A			3UL2202-4B						
	40 A			3UL2202-5B						
AC 1000 V	0.3 A	120 mm	max. 8 x 300 mm²	3UL2203-1A						
	0.5 A			3UL2203-2A						
	1 A			3UL2203-3A						
	6 A			3UL2203-1B						
	10 A			3UL2203-2B						
	16 A			3UL2203-3B						
	25 A			3UL2203-4B						
	40 A			3UL2203-5B						

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