



Schleicher relays

Measurement and monitoring devices

Measurement and monitoring relays for high system availability

A high level of equipment availability plays a crucial role in efficiency. All machine facilities should be fitted with rapid-response measuring and monitoring devices that continuously review and evaluate all electrical and physical states. This facilitates a quick and accurate response in the event of an error, for example proactive switch-off of the affected part of the system before the damage spreads to other unit components.

The Schleicher range of measurement and monitoring relays includes devices for all potential configurations.

Current and voltage monitors

- + Detection of low or excess voltages and currents by comparison with a preset threshold value

Phase sequence and phase failure monitoring

- + Detection of incorrect phase sequence
- + Detection of dangerous phase voltage imbalance
- + Detection of voltage feedback

Motor monitors

- + Detection of low / excess voltage via $\cos \Phi$ monitoring
- + Motor temperature monitoring

Temperature monitoring

- + Temperature monitor for Pt 100 thermal resistance or NiCr-Ni thermo-couple

Overview of measurement & monitoring devices

The type overview includes a selection of the latest devices; additional types are available on request.

		SUM 1001	SIM 1001	SXT 12	SXT 32	SUM 1001	SAM 1001	SPW 1004	SPW 1005	SAP 1002	SAP 1003	SUM 3001	SBW 1004	SBW 1005	SBW 1007	SMS 1002	SMS 1002 - 101	SMS 1005	SMS 1006	STW 1101	STW 1102	STW 1001	STW 1002	SST 12
APPLICATION	Low or excess voltage	•		•	•																			
	Low & excess voltage					•																		
	Low or excess current		•	•	•																			
	Three-phase sequence (clockwise rotation)						•	•	•	•	•													
	Three-phase failure						•	•	•			•												
	Three-phase voltage imbalance						•	•	•															
	Three-phase voltage feedback						•	•	•															
	Three-phase undervoltage							•	•			•												
	Motor protection underload detection cos ϕ												•	•										
	Motor protection overload detection cos ϕ														•									
	Motor protection PTC temperature monitor															•	•	•	•					
	Temperature monitor for Pt 100																			•	•			
	Temperature monitor for NiCr-Ni																					•	•	
	Contact protection relays with electrical isolation																							•
OUTPUTS	Changer			2	2	2	2	2	1	1	2	2	1	1	1	1	1	2	2	1	1	2	2	2
	Closer	1	1																					
	Opener	1	1																					
NOMIN. VOLTAGE	DC 24 V																•					•		
	AC 24 V		•														•							•
	AC/DC 24 V					•																		
	AC 110 - 127 V			•	•												•							•
	AC 115 V	•	•																					
	AC 220 - 240 V			•	•												•		•	•	•	•	•	•
	AC 230 V	•	•			•																		
	3 x AC 220 V						•																	
	3 x AC 400 V											•												
	3 x AC 380 - 415 V						•	•	•	•	•		•	•	•									
	3 x AC 440 - 480 V						•			•	•		•		•									
SPECIAL FEATURES	No auxiliary voltage					•	•	•	•	•	•	•	•	•	•									
	Error / fault memory												•	•	•			•	•					
	Restart interlock																		•					
	Adjustable hysteresis	•	•	•	•																			
	Adjustable response time	•	•																					
	Adjustable response / off time																							•
	Fixed response / off time						•	•	•	•	•	•	•	•	•									
	Digital (D) & analogue (A) adjustment	A	A	A	A	A	A	A	A			A	A	A	A					D	D	D	D	A
	Operating current	•	•	•									•							•		•		
OPERATION	Standby current	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•	•		•		•	
	Device width	45.0 mm / 1.8 in	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•