

AC Auxiliary Contact Module



- * Full-On monitoring of Soft Starters (SMC 3, STL)
- * Full-On/Off monitoring of Analogue Power Controller (SPC 1 AD)
- * Function monitoring of Electronic Contactors (SC X)
- * Function monitoring of Motor Reversing & Motor Contactors (SRC/DOL)
- * Dual Voltage range 230 VAC or 400 - 600 VAC 50/60 Hz
- * Relay output (Single pole Change-over) 5A 250VAC / 3A 24 VDC
- * 22.5 mm module for DIN-rail mounting
- * LED status indication
- * IP-20 Protection

Product Description

MAUX 01 600 is an auxiliary module for monitoring the status of a connected motor controller or electronic contactor. If the voltage across the semiconductor (T3 and L3) is lower than 2 VAC the output relay is activated. The output relay will open again when the sense voltage is higher than 2.5 VAC.

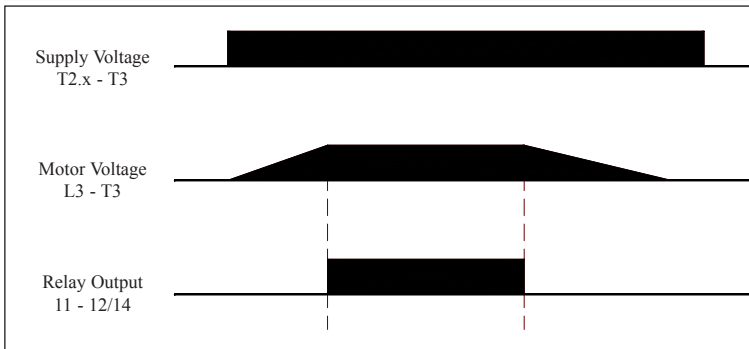
Line voltage range		Item No.	Block diagram
T2.1 - T3	208 - 240 VAC 50/60 Hz Max 10 VA 1.5 W	MAUX 01 A 600	
T2.2 - T3	380 - 600 VAC 50/60 Hz Max 35 VA 2.5 W		

Output Specifications

Relay Output 5A 250 VAC (AC-22) 3A 24 VDC (DC22)

Rated insulation voltage Ui: 600V

Functional Diagram



Environment

Degree of protection / Pollution degree

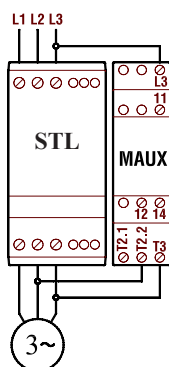
IP 20 / 3

Insulation Specifications

Rated insulation voltage	Ui 660 Volt
Rated impulse withstand voltage	Uimp. 4 kVolt
Installation category	III

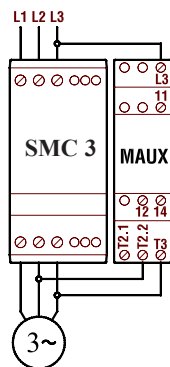
App. Ex. STL 3 - 3 Phase 400 V

Full-ON Monitoring with Starting Torque Limiter Type STL 3
3 Phase Motor 400 / 600 VAC



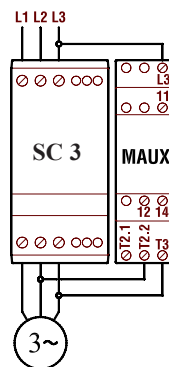
App. Ex. SMC 3 - 3 Phase 400 V

Full-ON Monitoring with Soft Starter Type SMC 3
3 Phase Motor 400 / 600 VAC



App. Ex. SC 3 - 3 Phase 400 V

Full-ON Monitoring with 3 Ph. Contactor Type SC 3
3 Phase Motor 400 / 600 VAC

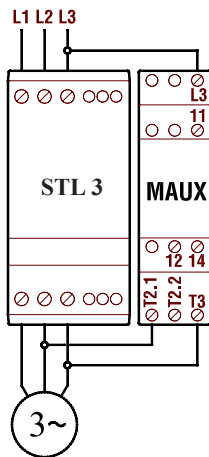


Specifications are subject to change without notice

AC Auxiliary Contact Module

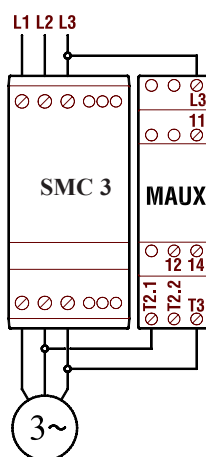
App. Ex. STL3 - 3 Phase 230 V

Full-ON Monitoring with
Starting Torque Limiter Type STL 3
3 Phase Motor 230 VAC



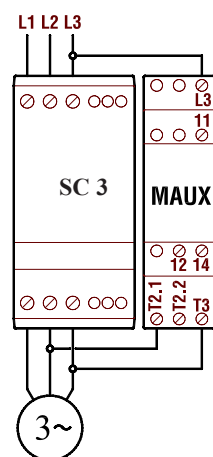
App. Ex. SMC 3 - 3 Phase 230 V

Full-ON Monitoring with
Soft Starter Type SMC 3
3 Phase Motor 230 VAC



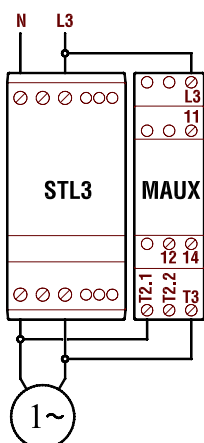
App. Ex. SC 3 - 3 Phase 230 V

ON Monitoring with
3 Ph. Contactor Type SC 3
3 Phase Motor 230 VAC



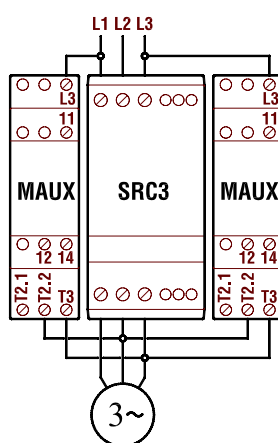
App. Ex. STL3 - 1 Phase 230 V

Full-ON Monitoring with
Starting Torque Limiter Type STL 3
1 Phase Motor 230 VAC



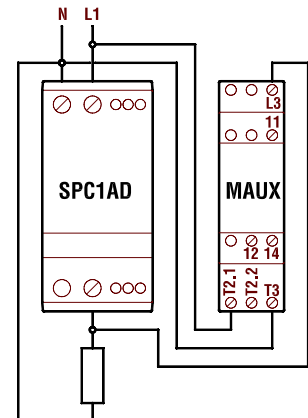
App. Ex. SRC 3 - 3 Phase 400 V

ON Monitoring with
Reversing Type SRC
3 Phase Motor 400 VAC



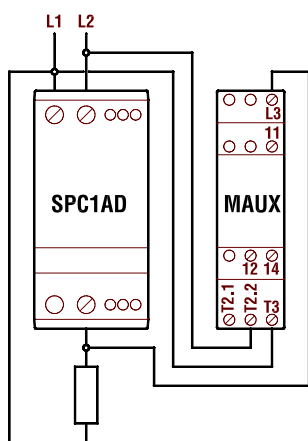
App. Ex. SPC 1 - 1 Phase 230 V

Full-OFF Monitoring with
Analogue Contactor Type SPC1
230VAC



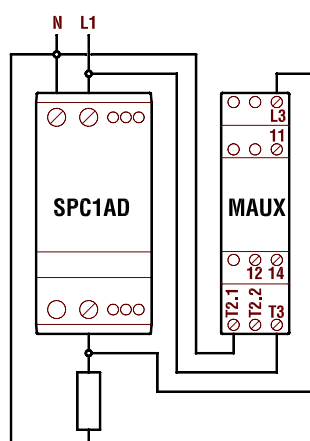
App. Ex. SPC 1 - 3 Phase 400 V

Full-OFF Monitoring with
Analogue Contactor Type SPC1
400 VAC



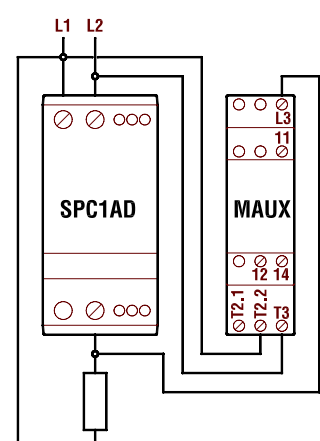
App. Ex. SPC 1 - 1 Phase 230 V

Full-ON Monitoring with
Analogue Contactor Type SPC1
230 VAC



App. Ex. SPC 1 - 3 Phase 400 V

Full-ON Monitoring with
Analogue Contactor Type SPC1
400 VAC



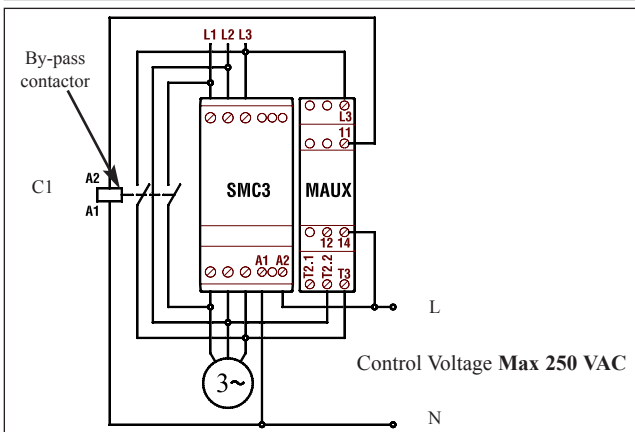
AC Auxiliary Contact Module

Application Example. Soft Starter type SMC 3 with control of By-Pass Contactor

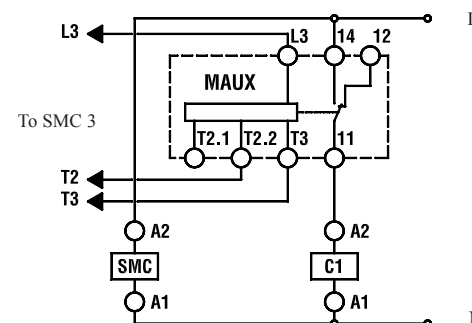
Control of By-pass Contactor (functional description):

When the Control signal A1-A2 is supplied to the Soft Starter, Ram-Up is initiated. When the ramp time has elapsed the output relay in the MAUX1 will switch the by-pass contactor ON for limiting the power dissipation in the Soft Starter.

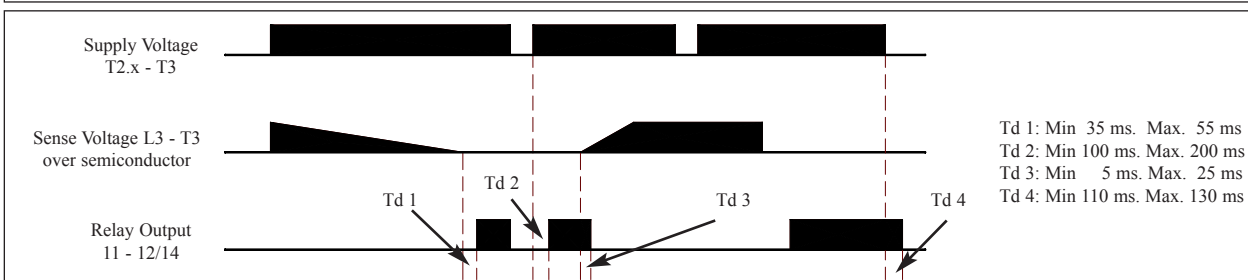
When the control voltage is switched OFF the by-pass contactor will drop instantaneously, before the semiconductors are switched off, for eliminating severe arcing in the mechanical contactor. In this application the by-pass contactor can be selected from the thermal current I_{th} rating and not from the AC-3 rating.



Control Circuit Diagram



Semiconductor Voltage Timing Diagram

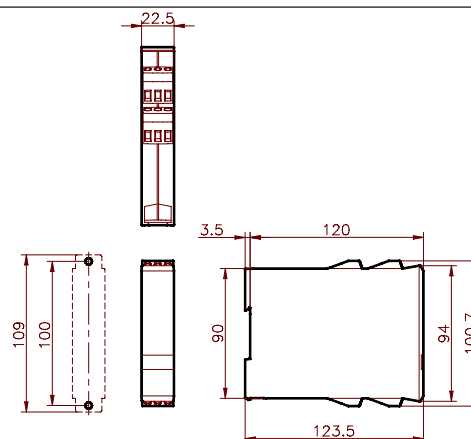


Cable Wiring Hints for 22,5 mm housing

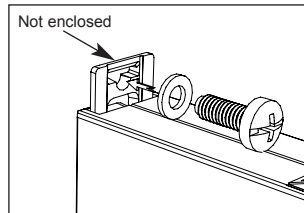
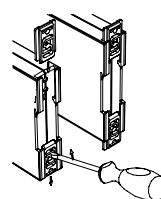
75°C Wire	mm ²	mm ²
*	1 x 0.4 - 4	1 x 0.4 - 4
	2 x 1.0	2 x 1.0
*	1 x 0.5 - 4	1 x 0.5 - 4
	2 x 0.5 - 1.5	2 x 0.5 - 1.5
*	1 x 0.5 - 6	1 x 0.5 - 6
	2 x 0.5 - 2.5	2 x 0.5 - 2.5
	Pozidrive 1 0.5 Nm max.	Pozidrive 1 0.5 Nm max
	4 mm 0.5 Nm max.	4 mm 0.5 Nm max

- Important: (Observe the maximum screw torque limits)

Dimensions for DIN rail mounting (standard)



Option for backplate mounting



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