

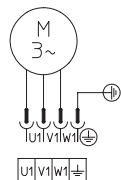
**Motor connections - AUMA motors**

For DC, brake and two-speed motors, separate terminal plans are available.

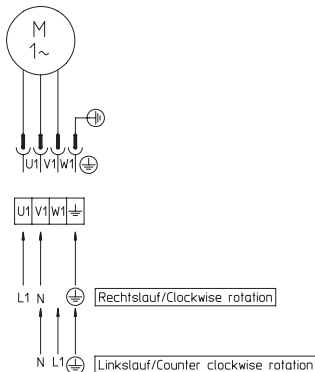
**CAUTION!**

**Complete protection of AUMA pot-type motors is only achieved when correctly wiring the thermostiches, embedded in the winding.**

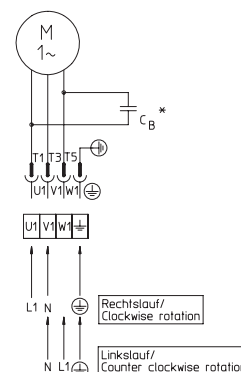
3-ph AC motor  
TPA 00R... (TP.../...)



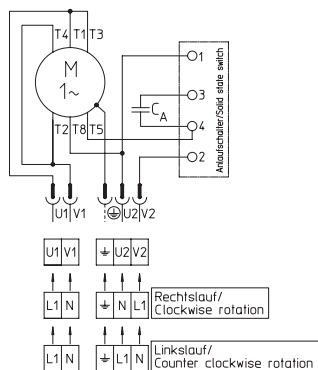
1-ph AC motor  
for SG 05.1 – SG 12.1  
TPA 16R... (1TP.../...)



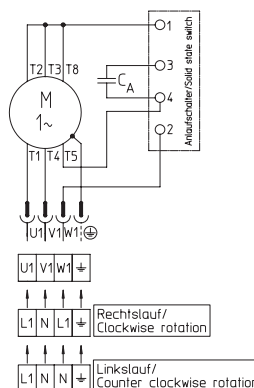
1-ph AC motor with integral  
operating capacitor  
TPA 01R... (60TP.../...)



1-ph AC motor 115 V AC with integral  
starting capacitor and starting switch  
TPA 02R... (61TP.../...)



1-ph AC motor 230 V AC with integral  
starting capacitor and starting switch  
TPA 03R... (62TP.../...)



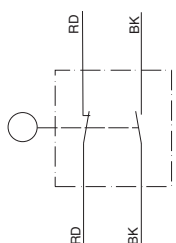
**Microswitches**

**CAUTION!**

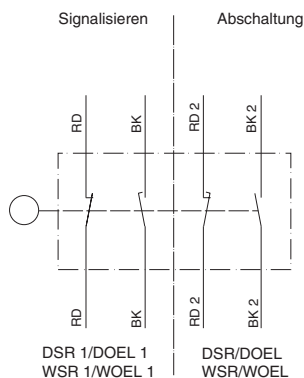
**Only the same potential can be switched on the two circuits of a microswitch. If different potentials are to be switched simultaneously, tandem switches must be used (two galvanically separate microswitches in one housing).**

To ensure reliable signalling, the leading contacts WSR 1/WOEL 1 or DSR 1/DOEL 1) must be used and the lagging contacts (WSR/WOEL or DSR/DOEL) for switching off.

I Einfeldschalter



II Tandemschalter



Wire colour: RD - red (NC), BK - black (NO)

		Mechanical lifetime = $2 \times 10^6$ starts		
Voltage		Switch rating $I_{max}$ at		
Current type		30 V	125 V	250 V
AC current (inductive load) $\cos \phi = 0,8$		5 A	5 A	5 A
DC current (resistive load)		2 A	0.5 A	0.4 A
Gold plated contacts		min. 5 V, max. 50 V		
Current		min. 4 mA, max. 400 mA		

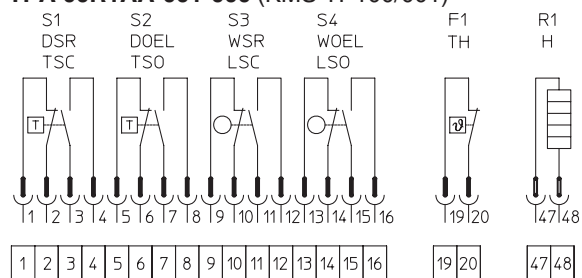
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# TPA

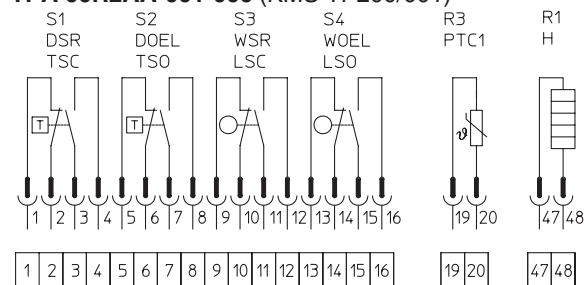
# Terminal plans

S 1	TSC (DSR)	Torque switch, closing, clockwise
S 2	TSO (DOEL)	Torque switch, opening, counterclockwise
S 1/2 S 2/2	DSR 1 DOEL 1	Torque switch in tandem arrangement with DSR/DOEL (TSC/TSO)
S 3	WSR	Limit switch, closing, clockwise
S 4	WOEL	Limit switch, opening, counterclockwise
S 3/2 S 4/2	WSR 1 WOEL 1	Limit switch in tandem arrangement with WSR/WOEL (LSC/LSO)
S 6	WDR	Limit switch, DUO, for 2 intermediate positions, adjustable
S 7	WDL	
S 6/2 S 7/2	WDR 1 WDL 1	Limit switch, DUO, for 2 intermediate positions in tandem arrangement with WDR/WDL (LSA/LSB), adjustable
S 5	BI <sup>1)</sup>	Blinker transmitter
S 17	HA	Switch for handwheel activation
F 1	TH <sup>2)</sup>	Thermoswitch (motor protection)
B 1	IWG	Inductive position transmitter 3- or 4 wire system
B 2	RWG	
B 3	IWG	Inductive position transmitter 2-wire system
B 4	RWG	
R 1	H	Heater in switch compartment
R 2	f1	Potentiometer
R 2/2	f2	Potentiometer in tandem arrangement with R 2
R 3	PTC1	Thermistor (motor protection)
R 4	H	Motor heater

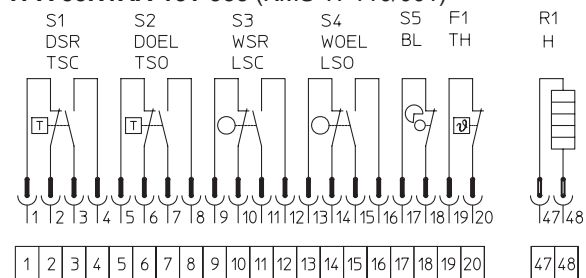
### TPA 00R1AA-001-000 (KMS TP100/001)



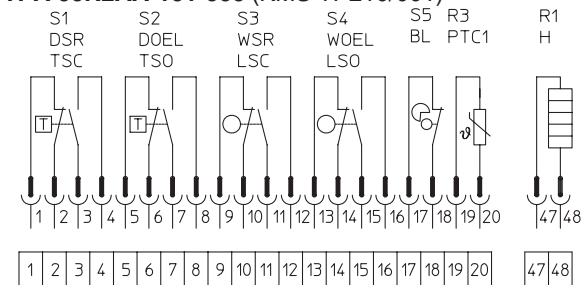
### TPA 00R2AA-001-000 (KMS TP200/001)



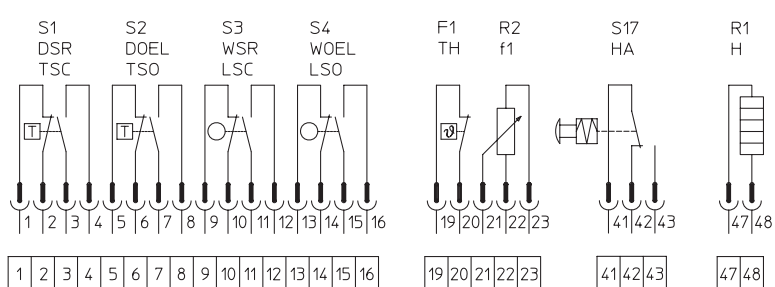
### TPA 00R1AA-101-000 (KMS TP110/001)



### TPA 00R2AA-101-000 (KMS TP210/001)



### TPA 00R1AA-3A1-000

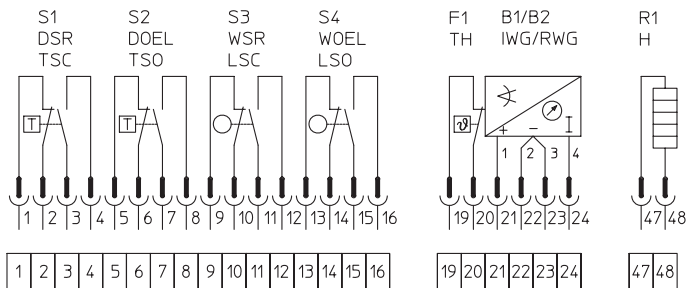


1) Blinker for SAR only available if explicitly ordered

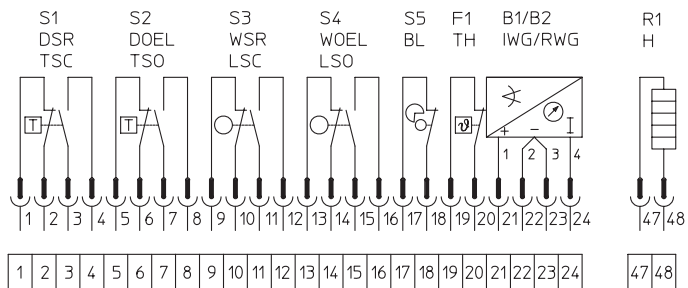
2) Thermoswitches only available for 1-ph AC and 3-ph AC motors as standard. Contacts open at 140 °C and close once they have cooled down.

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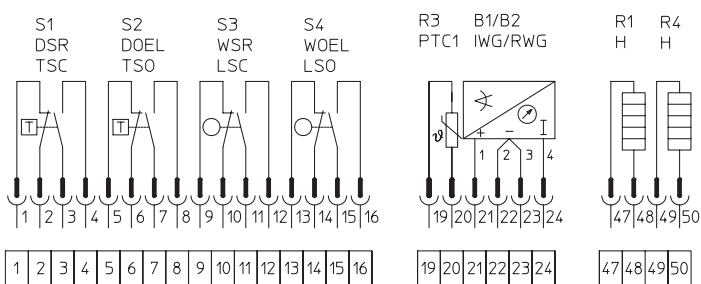
**TPA 00R1AA-0E1-000 (KMS TP104/001)**



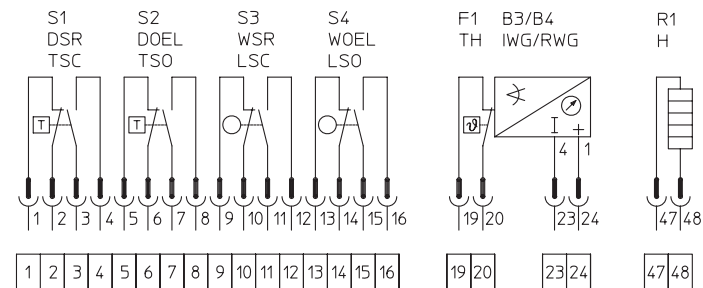
**TPA 00R1AA-1E1-001 (KMS TP114/001)**



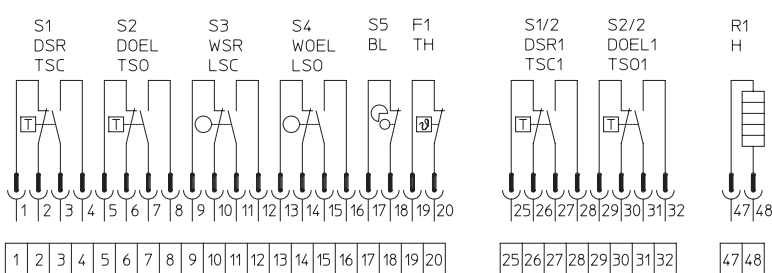
**TPA 00R2AA-0EA-000 (KMS TP204/009)**



**TPA 00R1AA-0C1-000 (KMS TP140/001)**

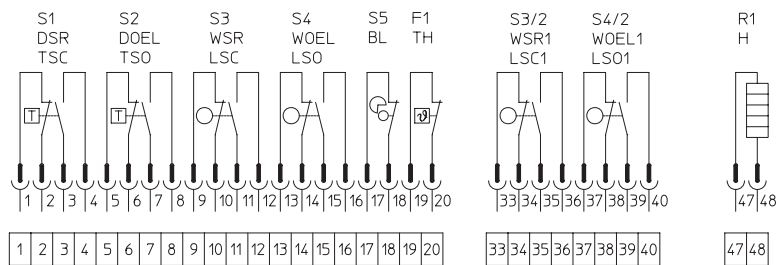


**TPA 00R1BA-101-000 (KMS TP110/101)**

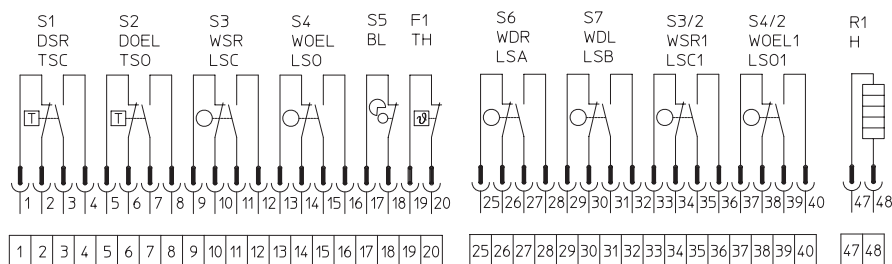


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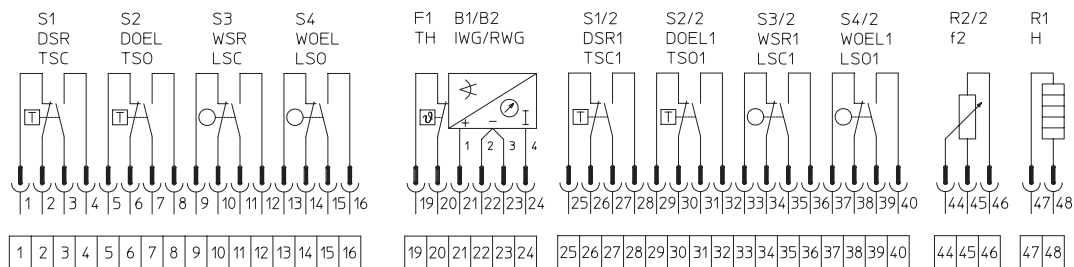
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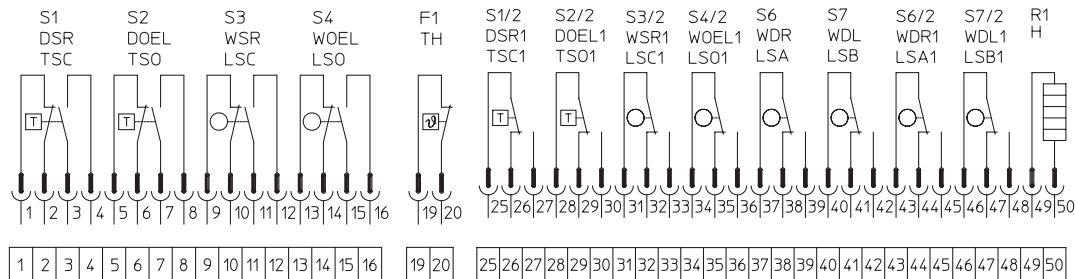
TPA 00R1AF-101-000 (KMS TP110/211)



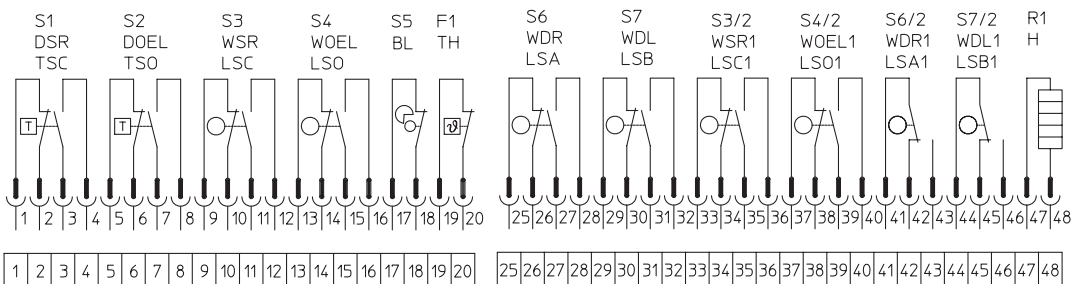
TPA 00R1BB-0H1-000 (KMS TP104/341)



TPA 00R1BH-001-A30 (KMS 9TP100/331)



TPA 00R1AH-101-A30 (KMS 9TP110/231)



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