VARIOFACE S5/S7 Adapter for SIMATIC®S7
FLKM-S...

1. Short Description

For VARIOFACE S5/S7 systems that are automated with SIMATIC® S5 115, 130/135, and 150/155, Phoenix Contact VARIOFACE S5/S7 adapters can be used to connect the existing SIMATIC® S5 field wiring directly to SIMATIC® S7. This saves both time and money. Costly rewiring of individual modules is not required.

Systems can be tested with SIMATIC® S7 during downtimes, e.g., at the weekend, and operated again with SIMATIC® S5 during production times. Once the changeover is complete, SIMATIC® S7 controls the system via the VARIOFACE S5/S7 adapter and the old SIMATIC® S5 field wiring.

The system components are connected to modern control systems using VARIOFACE S5/S7 adapters.

Overview of VARIOFACE S5/S/ Adapters

SIMATIC®S5	SIMATIC®S7	VARIOFACE S5/S7 Adapter
S5 115	S7 300 S7 400	FLKM S115/S7/FLK50/PLC/SO137
S5 115	S7-400	FLKM S115/S400/SO155
S5 130 S5 135 S5 150 S5 155	S7 400	FLKM S135/S400/SO...

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2. Technical Data

FLKM S115/S7/FLK50/PLC/SO137 for SIMATIC® S5 115

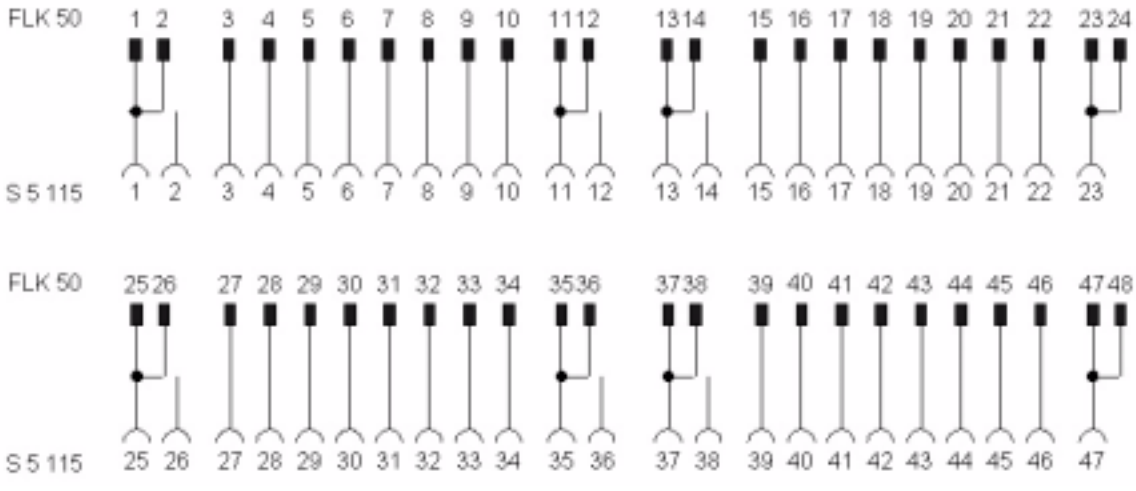
The old SIMATIC® S5 115 connector is plugged into the VARIOFACE S5/S7 adapter. SIMATIC® S7 400 or SIMATIC® S7 300 can be connected via a VARIOFACE system cable, e.g., FLK 50/EZDR/.../ KONFEK, and the VARIOFACE front adapter for SIMATIC® S7 (FLKM 50-PA-S400 or FLKM 50-PA-S300).

The VARIOFACE S5/S7 adapter can be installed in a 19 in. frame, which is then later mounted instead of the SIMATIC S5.

Description	S5 115	S7 400 Front Adapter S7 300 Front Adapter	Type	Order No.	Pcs. Pkt.
VARIOFACE S5/S7 adapter	6ES5 420 - 7LA11 6ES5 430 - 7LA11 6ES5 441 - 7LA11 6ES5 451 - 7LA11 6ES5 482 - 7LA11	 FLKM 50-PA-S300 FLKM 50-PA-S400	**FLKM S115/S7/FLK50/PLC/SO137**	**23 06 294**	1

Technical Data	
Maximum permissible operating voltage	24 V AC/DC
Maximum permissible current (per branch)	1 A
Maximum permissible current (separate voltage supply)	2 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)
Dimensions (width x length x depth)	35 mm x 307 mm x 60 mm (1.378 x 12.087 x 2.362 in.)

Ladder diagram for FLKM S115/S7/FLK50/PLC/SO137



FLKM S115/S400/SO155

Adapter for Siemens SIMATIC® S7 400

S5/S7 adapters connect S5-115 front adapters that are wired with individual wires to S7 I/O modules. The S5 115 front adapter is directly plugged into an S7 400 I/O board using the FLKM S115/S400/SO155 intermediate adapter.

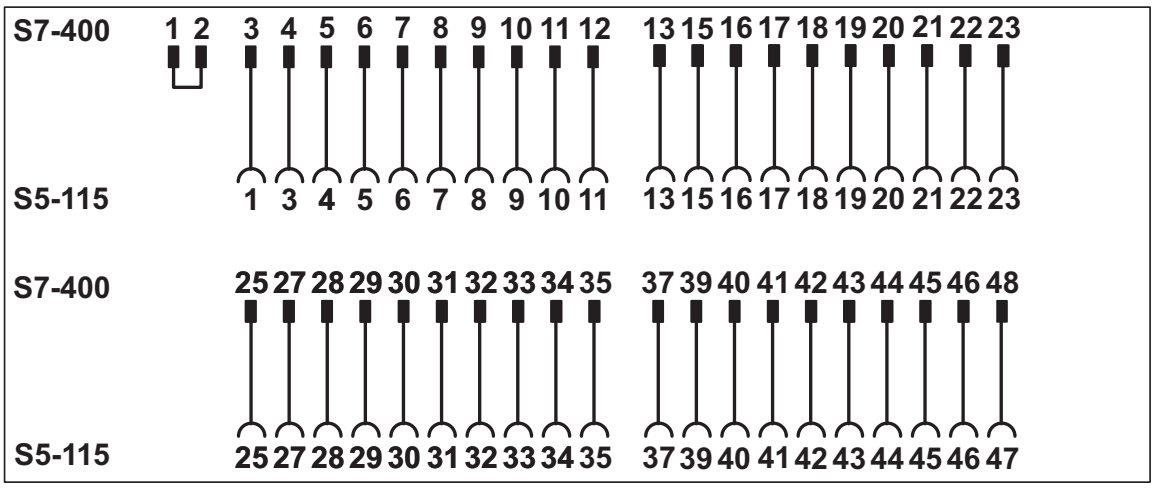
Attention:
Due to the geometry, only every other slot can be used. The LEDs of the S7 400 module are covered by the S5 115 adap**ter.**

Description			Type	Order No.	Pcs. Pkt.
Digital	**S5 115**	**S7 400 Base**			
IN 24 V DC				**2307248**	1
	DE 6ES5 420-7LA11	6ES7-421-1BL01-0AA0	**FLKM S115/S400/SO155**	**2307248**	1
	DE 6ES5 430-7LA11	6ES7-421-1BL01-0AA0	**FLKM S115/S400/SO155**		
Digital	**S5 115**	**S7 400 Base**			
OUT 24 V DC					
	DE 6ES5 441-7LA11	6ES7-422-1BL01-0AA0	**FLKM S115/S400/SO155**	**2307248**	1
	DE 6ES5 451-7LA11	6ES7-422-1BL01-0AA0	**FLKM S115/S400/SO155**	**2307248**	1

Technical Data

Maximum permissible operating voltage	24 V AC/DC
Maximum permissible current (per branch)	4 A
Maximum permissible current (separate voltage supply)	4 A
Test voltage (contact/contact)	0,5 kV
Ambient operating temperature range	-20°C to +50°C

Ladder diagram for FLKM S115/S400/SO155



FLKM S135/S400/SO…
for SIMATIC® S5 130 to 155

The FLKM S135/S400/SO adapter connects a SIMATIC® S5 connector directly to the SIMATIC® S7 400 base board.

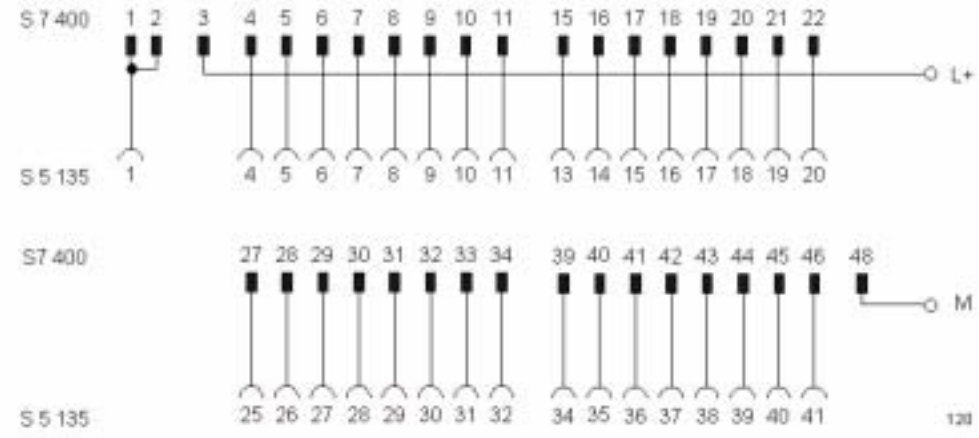
The FLKM S135/S400/SO adapter is plugged into the SIMATIC® S5 connector, enabling this unit to be installed directly on the S7 400 board.

The new SIMATIC® S7 400, which retains the old field wiring, is installed in place of the SIMATIC® S5.

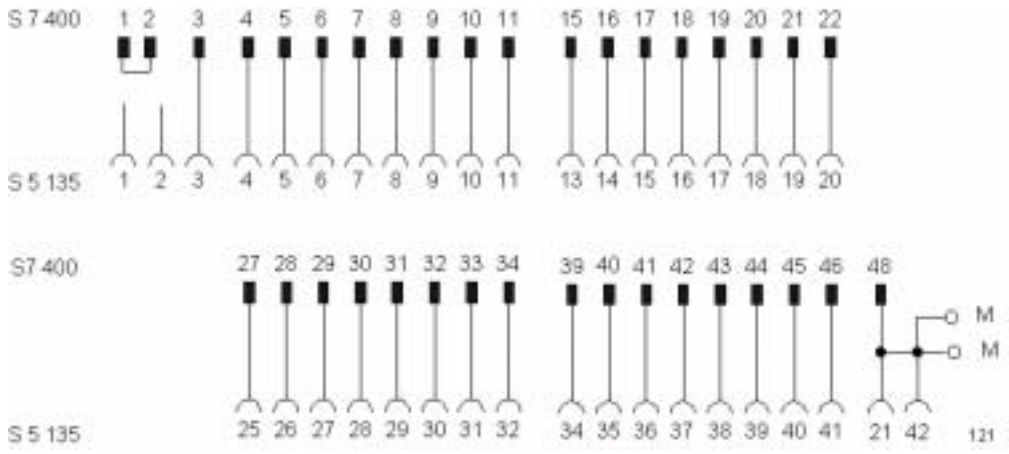
Description	S5 135/155	S7 400 Base	Type	Order No.	Pcs. Pkt.
Digital	DE 6ES5 420-4UA14	6ES7-421-1BL01-0AA0	FLKM S135/S400/SO120	**23 01 723**	1
IN 24 V DC	**DE 6ES5 430-4UA14**	**6ES7-421-1BL01-0AA0**	**FLKM S135/S400/SO121**	**23 01 736**	1
	DE 6ES5 432-4UA12	6ES7-421-1BL01-0AA0	FLKM S135/S400/SO122	**23 01 749**	1
Digital					
IN 120/230 V UC	DE 6ES5 436-4UA12	6ES7-421-1FH20-0AA0	**FLKM S135/S400/SO123**	**23 01 752**	1
Digital					
OUT 230 V UC	DE 6ES5 456-4UA12	6ES7-422-1FH00-0AA0	FLKM S135/S400/SO124	**23 01 765**	1
Digital	DE 6ES5 441-4UA12	6ES7-422-1BL00-0AA0	FLKM S135/S400/SO125	**23 01 778**	1
OUT 24 V UC	**DE 6ES5 451-4UA14**	**6ES7-422-1BL00-0AA0**	**FLKM S135/S400/SO126**	**23 01 781**	1
Digital					
OUT relay	DE 6ES5 453-4UA12	6ES7-422-1HH00-0AA0	**FLKM S135/S400/SO127**	**23 01 794**	1
Description	**S5 130/150**	**S7 400 Base**			
Digital	DE 6ES5 420-3BA11	6ES7-421-1BL01-0AA0	**FLKM S135/S400/SO128**	**23 01 804**	1
IN 24 V DC	DE 6ES5 430-3BA11	6ES7-421-1BL01-0AA0	**FLKM S135/S400/SO129**	**23 01 817**	1
Digital	DE 6ES5 444-3AA11	6ES7-422-1BH11-0AA0	**FLKM S135/S400/SO130**	**23 01 820**	1
OUT 24 V DC	DE 6ES5 445-3AA12	6ES7-422-1BL00-0AA0	**FLKM S135/S400/SO131**	**23 01 833**	1

Technical Data	FLKM S135/S400/SO120, FLKM S135/S400/SO121, FLKM S135/S400/SO122
Maximum permissible operating voltage	24 V AC/DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

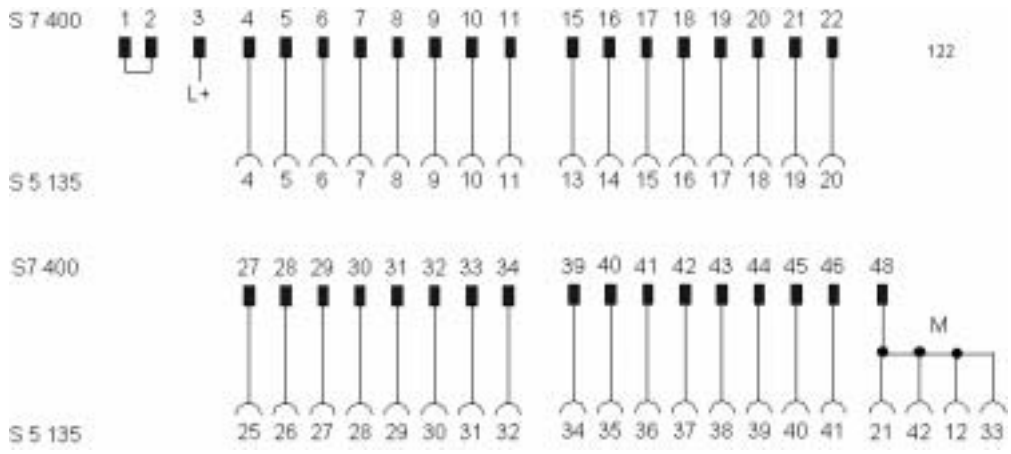
Ladder diagram for FLKM S135/S400/SO120



Ladder diagram for FLKM S135/S400/SO121

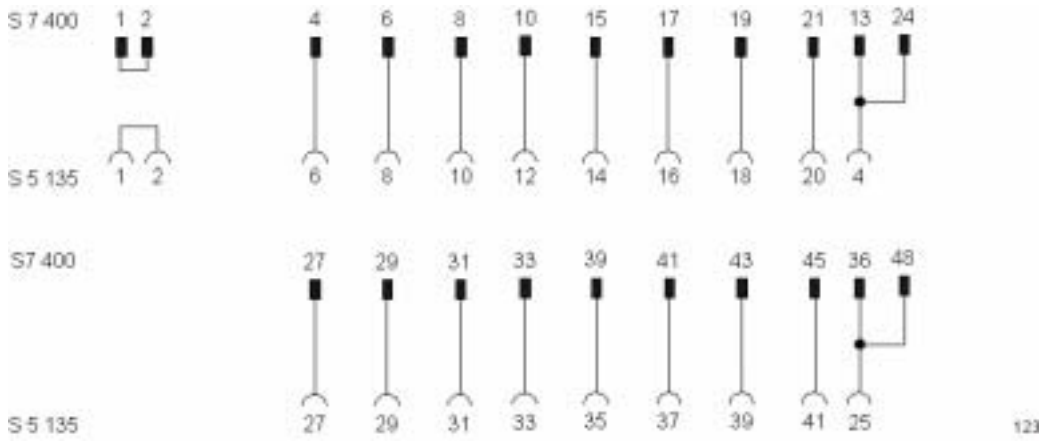


Ladder diagram for FLKM S135/S400/SO122

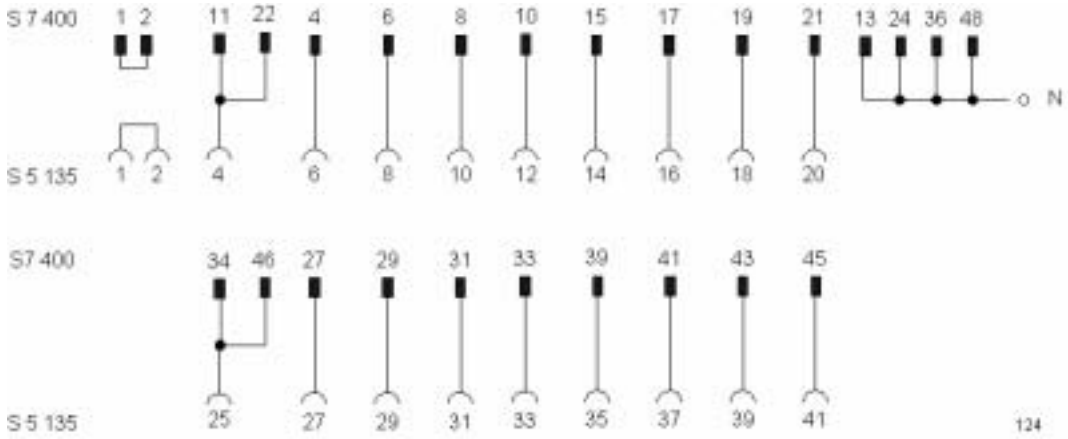


Technical Data	FLKM S135/S400/SO123 FLKM S135/S400/SO124
Maximum permissible operating voltage	230 V AC/DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

Ladder diagram for FLKM S135/S400/SO123

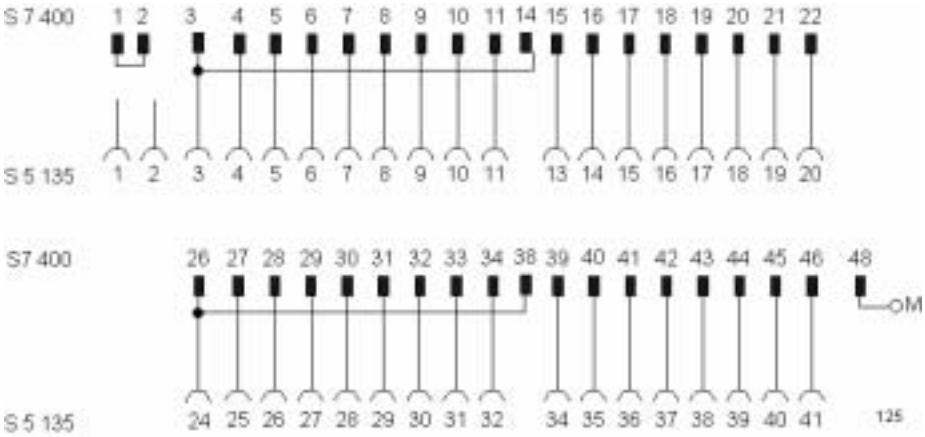


Ladder diagram for FLKM S135/S400/SO124

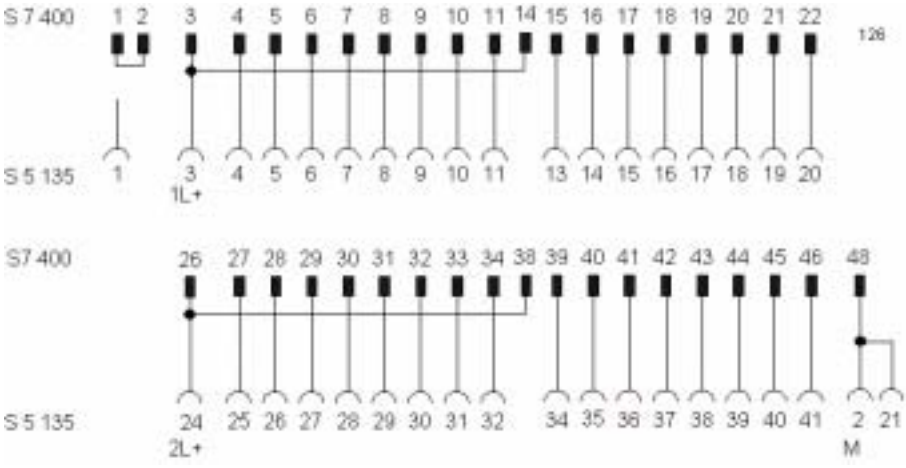


Technical Data	FLKM S135/S400/SO125 FLKM S135/S400/SO126
Maximum permissible operating voltage	24 V DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

Ladder diagram for FLKM S135/S400/SO125

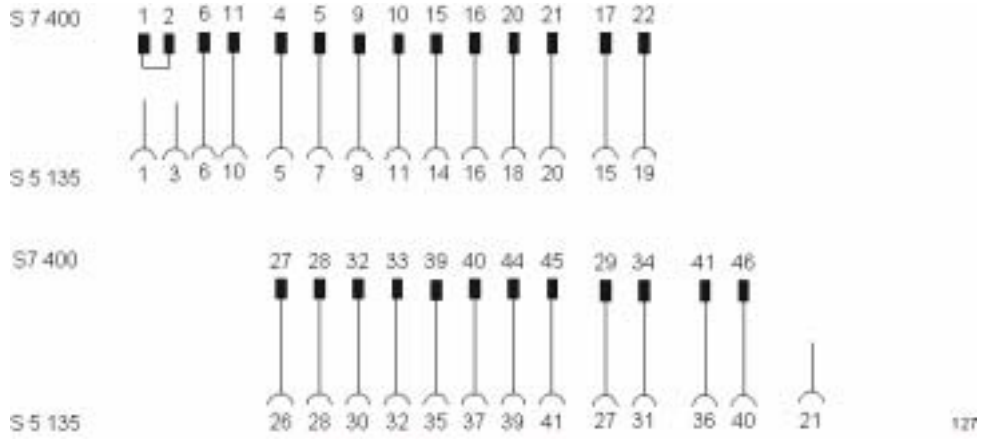


Ladder diagram for FLKM S135/S400/SO126

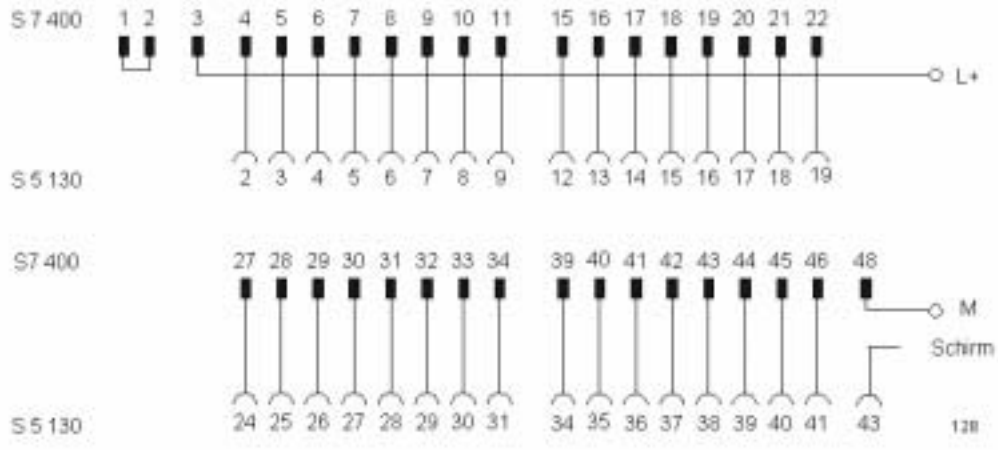


Technical Data	FLKM S135/S400/SO127 FLKM S135/S400/SO128
Maximum permissible operating voltage	24 V DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

Ladder diagram for FLKM S135/S400/SO127

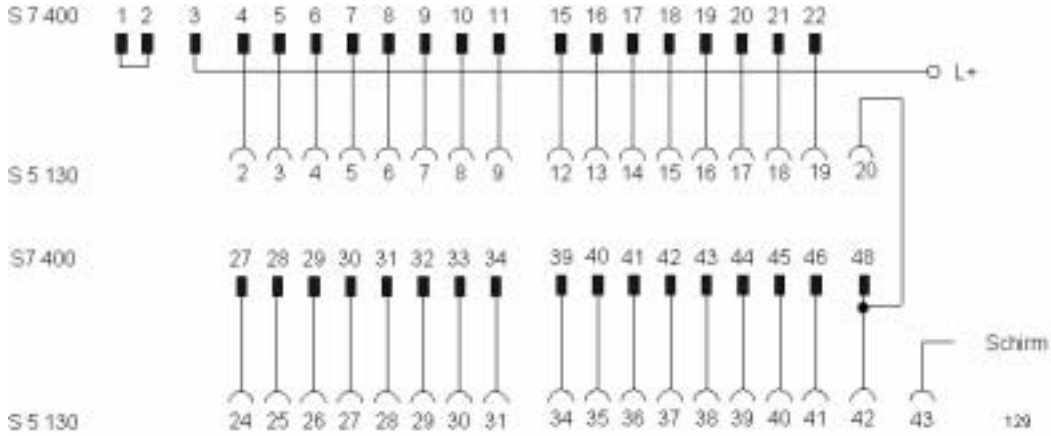


Ladder diagram for FLKM S135/S400/SO128

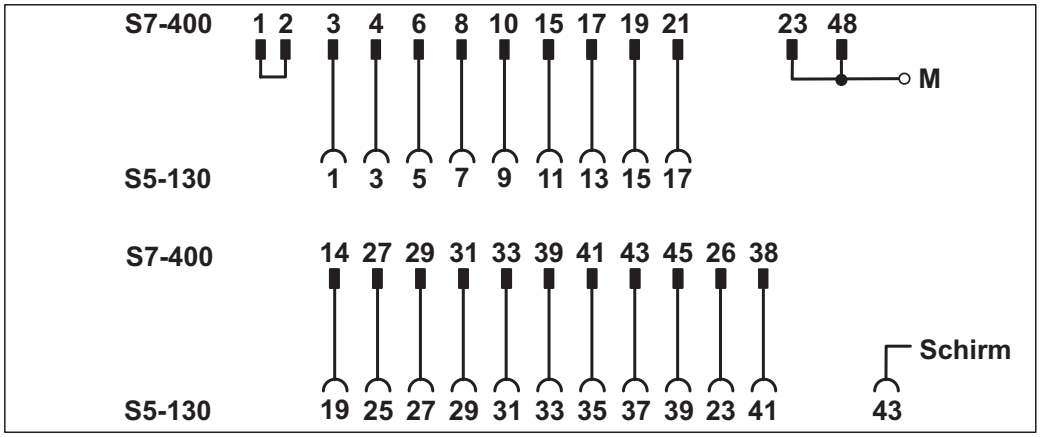


Technical Data	FLKM S135/S400/SO129 FLKM S135/S400/SO130
Maximum permissible operating voltage	24 V DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

Ladder diagram for FLKM S135/S400/SO129



Ladder diagram for FLKM S135/S400/SO130



Technical Data	FLKM S135/S400/SO131
Maximum permissible operating voltage	24 V DC
Maximum permissible current (per branch)	2 A
Maximum permissible current (separate voltage supply)	8 A
Test voltage (contact/contact)	0.5 kV
Ambient operating temperature range	-20°C to +50°C (-4°F to +122°F)

Ladder diagram for FLKM S135/S400/SO131