

Replacing: 2A82MV2209

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14/06/2000 (EN)

KL2135 oc ΠΠΠΓ

FIELD OF APPLICATION

Overlock machines with air and thread saving device, chainstitch machines with stitch condensing

With connections and/or outputs for:

Thread tension release	(max. 3.0 A)
Chain/tape cutter	(max. 0.5 A)
Sewing foot lift	(max. 6.5/3 A)
Chain suction	(max. 3.0 A)
Chain blowing	(max. 3.0 A)
Needle cooling	(max. 0.5A)

The total power of the outputs is to be limited to 96VA! Power supply 24V=, max. 0.5A for further additional devices.

CHARACTERISTICS .

The control has a digital touch panel for programming all parameters (functions, times, speeds, etc.). When a Variocontrol V820 control panel is connected, additional functions are possible, e. g. activation or deactivation of sewing foot lift, of the signal "chain blowing at the seam end", etc. (order nos. of the V810/V820 control panels see Special Accessories).

By means of the incorporated actuator, 12 speed stages can be activated. Stage 1 (positioning speed) and stage 12 (maximum speed) can be set. The maximum speed of the set value can be reduced by stages. The basic setting of the maximum speed is not affected. Stages 2...11 (intermediate speeds) adapt automatically to the respective maximum speed.

THE FOLLOWING FUNCTIONS ARE AVAILABLE AND CAN BE ADAPTED TO THE MACHINE:

- SOFTSTART: On / off; number of stitches and speed at the start of the seam can be selected (2 stitches / factory setting: 400 RPM).
- **BASIC POSITION:** Needle position at stop in the seam up/down.
- BRAKING POWER AT MACHINE STANDSTILL: Braking effect can be set.
- SEWING FOOT LIFT: At stop in the seam automatic / by pedal, after thread trimming automatic / by pedal, start delay from lifted sewing foot can be set.
- CHAIN BLOWING: On / off
- CHAIN SUCTION: At the start of the seam on / off, at the seam end on / off.
- THREAD TENSION RELEASE: At the start of the seam on / off, at the seam end on / off.
- CHAIN/TAPE CUTTER: At the start of the seam with stitch counting on / off, at the seam end with stitch counting on / off.
- SPEED RANGE: 70 RPM up to 9900 RPM (depending on machine).
- SPEED LIMITATION: Can be varied during machine run and at intermediate stop.

SWITCHING FUNCTIONS WHEN USING A VARIOCONTROL V810/V820:

V810

- Chain suction at the start of the seam and/or at the seam end on / off
- Chain/tape cutter at the start of the seam and/or at the seam end on / off
- Automatic sewing foot lift at stop in the seam / after thread trimming
- 2 pushbuttons which can be set with different input functions

V820

- Chain suction at the start of the seam and/or at the seam end on / off
- Chain/tape cutter at the start of the seam and/or at the seam end on / off
- Automatic sewing foot lift at stop in the seam / after thread trimming
- Basic position of the needle at stop in the seam up / down
- Stitch counting seam forward / backward / off
- Light barrier function uncovered-covered / covered-uncovered / off
- Chain blowing at the seam end on / off
- Function key programmable 2 pushbuttons which can be set with different input functions

A PUSHBUTTON FOR THE FOLLOWING FUNCTION CAN BE CONNECTED:

MANUAL CHAIN/TAPE CUTTER

IF THE LIGHT BARRIER MODULE IS NOT CONNECTED, THE LIGHT BARRIER INPUT CAN BE USED FOR THE FOLLOWING TOUCH AND/OR SWITCHING FUNCTIONS:

- **NEEDLE POSITION UP/DOWN**
- **NEEDLE POSITION UP**
- SINGLE STITCH: Basting stitch
- **FULL STITCH**
- **NEEDLE TO POSITION 2**
- **RESET STITCH COUNTER**

- SEWING FOOT UP WITH PEDAL IN POS. 0 (neutral)
- MACHINE RUN BLOCKAGE: Positioned stop; break contact [N.C.] / make contact [N.O.] selectable
- MACHINE RUN BLOCKAGE: Unpositioned stop; break contact [N.C.] / make contact [N.O.] selectable
- AUTOMATIC SPEED
- LIMITED SPEED WHEN USING THE PEDAL

UNIT CONSISTING OF:

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- 1 induction motor with electromagnetic clutch type V....*1) control box type 2A82MV2309
- 1 with power pack N30
- position transmitter type P5-2 1
- reflection light barrier module LSM001A 1

set of standard accessories B10 consisting of:

- belt guard, complete (for pulleys up to 132 mmØ)
- set of hardware 1

1

1

- 1 motor mounting foot
- bracket 1 and 2, short 1
- 1 documentation
- set of accessories Z3 consisting of: 1 1
 - pitman rod, complete
- pulley DIN42692-L (size according to request) *2) 1

SPECIAL ACCESSORIES:

SPECIAL ACCESSORIES, AGAINST EXTRA CHARGE:	Part No.
Control panel Variocontrol V810 with 9-pole/25-pole adapter	5970153
Control panel Variocontrol V820 with 9-pole/25-pole adapter	5970154
Reflection light barrier module LSM001A	6100028
Belt guard for pulleys up to 180 mm ø	7960012
Solenoid type EM1(for e. g. sewing foot lift)	available versions see
	specification "solenoids"
Extension cable for external actuator, approx. 750 mm long, complete with plug and socket connector	1111845
Extension cable for external actuator, approx. 1500 mm long, complete with plug and socket connector	1111787
5-pin plug with locking screw for the connection of another external actuator	0501278
External actuator type EB301 with approx. 250 mm connecting cable and 5-pin plug with locking screw	4170011
External actuator type EB302 (softer spring) with approx. 250 mm connecting cable and 5-pin plug with locking screw	4170012
Foot control type FB301 (one pedal) for standing operation with approx. 1400 mm connecting cable and plug	4170013
Foot control type FB302 (three pedals) for standing operation with approx. 1400 mm connecting cable and plug	4170018
Potential equalization cord 700 mm long, LIY 2.5 mm ² , grey with forked cable brackets on both sides	1100313
Fitting piece for position transmitter	0300019
Extension cable for position transmitter P5, approx. 1100 mm long, complete with plug and socket connector	1111584
Extension cable for position transmitter P5, approx. 315 mm long, complete with plug and socket	1111229
connector	
Knee switch type KN3 (pushbutton) with cord of approx. 950 mm length without plug for activating the functions mentioned overleaf	5870013
Sewing light transformer	please indicate line voltage
	and sewing light voltage
	(6.3V or 12V)
6-pin plug with locking screw (MAS 6100) B4, B5	0500703 ⁽
6-pin plug (MES 60) B6	0500457
7-pin plug with locking screw (MAS 7100S) B18	0502474
10-pin plug (MES 100) B3	0500357

*1) *2) Available motors see next page

The following sizes are available: B58-L, B63-L, B67-L, B71-L, B75-L, B80-L, B85-L, B90-L, B95-L, B100-L, B106-L, B112-L, B118-L, B125-L, B132-L, B140-L

Note: Select the pulley such that the maximum speed of the machine corresponds to the speed indicated on the motor nameplate!



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Type V....2A82MV2309..-N..

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AVAILABLE MOTORS

		Ex	ample For C	Ordering V	ARIOST	OP Posit	ioning Driv	es (Series	82)		
Power pac Control					1]				Sup Supply	ply voltage frequency
Induction r clutch	notor wit	h electror	nagnetic —								
			V	D552LU/2A8		30 Iley 118 n	230/400V – 5 nm⊘	60/60Hz			
			, the control na MV2309). Th								
			Indu	ction Moto	ors With	Electron	nagnetic Clu	utch			
Туре	Power rating (W)	Speed (RPM)	Frequency	Туре	Power rating (W)	Speed (RPM)	Frequency (Hz)	Туре	Power rating (W)	Speed	Frequency
VD374 VD374U VD374LU	370	1400/ 1700	(Hz) 50/60	VD742 VD742U VD742* VD742U* VD742U* VD742LU*	740	2800/ 3400	50/60	VE374 VE374LU	370	(RPM) 1400/ 1700	(Hz) 50/60
VD552 VD550LU VD552*	550	2800/ 3400	50/60	VD1102* VD1102U*	1100	2800/ 3400	50/60	VE502 VE502LU	500	2900/ 3500	50/60
VD554* VD554U* VD554LU*	550	1400/ 1700	50/60					VE602 VE602LU	600	2900/ 3500	50/60
* in series	with reinf	orced clu	tch	1				Ш			
		-	Type Code I	For Inducti	ion Moto	ors With	Electromag	netic Clutc	h		
		. Symbol	for VARIOST	OP							
		Referen	ce mark for kii D = E =	three-	phase cur	rent ernating c	urrent				
Reference number for power rating 37 = 370W - available for three-phase current (4 poles) and single-phase alternating current (4 poles) 50 = 500W - available for single-phase alternating current (2 poles)									g current		
		Non sta		W - avai W - avai W - avai W - avai	lable for the second se	nree-phase ingle-phase nree-phase nree-phase	e current (2 pc se alternating e current (2 pc e current (2 pc	oles or 4 pole current (2 po oles)	es)		
		Referen 2 = 2	ce number for 2 poles (2800 4 poles (1400	number of r and/or 2900	notor pole RPM with	s n 50Hz, 34		00 RPM with	60Hz)		
			ce mark for se out reference	mark = no = ta	o sewing li pped moto	or winding	ction : 6.3V or 12V ⁄e safety regul				
			reference ma out reference	mark = sta = CS (si cc	SA approv tar-delta c onnection,	ved version onnected star conne	mpliance with n three-phase c ected three-ph voltages up to	urrent motor lase current	motors wi	th sewing	light
V D 55	2 L U										