



Technical Customer Information

KI0301e0

**Bucher AG, Beringer Hydraulik Lift
with DSV544*-LIFT
"analog" process "Beringer"**

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Parameter and Variables DSV 5445 - Lift, "analog" process "Beringer"

This is the description of the data from BERINGER.KOM or BERIPACK.KOM with default settings: For initial operation with **BERINGER.KOM** there have only the 2 parameters "**F0**" and "**t**", according to the operating instructions from Bucher AG, to be changed (adaption, type of motor and DSV5445). The system BERIPAC with **BERIPACK.KOM** is preset completely. The values of the factory settings are in brackets, e.g. F0 (750). The small printed values are hidden parameters for experts only:

Adr	Parameter, variable	Meaning	Factory settings	Range of values
F0	Rotor flow	Motor rotor flux	500 (750)	50...2000
F1	Rated speed	Nominal speed according to rating plate	2905 (1475)	100...4000 1/min
F2	Synchr. speed	Synchronous speed	3000 (1500)	100...4500 1/min
F10	2094024 / 0E4A	512-encoder=4002, 1024-Geber=2001	4002 (1000)	2001...4002
F23	0E4A / 4	512-encoder=128, 1024-Geber=256	128 (512)	256
F29	Version-flag	old=0, new=255	255	0 or 255
F31	Number of poles	number of motor poles	2 (4)	2...64
i	I-part run	I-part speed controller	300	4...400
k	P-part run	P-part speed controller	300	100...5000
t	Rotor time const.	Motor rotor time constant	100	25...1000
0B34	Version of progr. (>75)	Program revision index (read only)	>75	read only
0E00	Stand. of speed "1"	Evaluation of the analog setpoint (660 = 10 = 3000 1/min)	660 (1452)	-1500...1500
0E0C	Start hyst. "1"	Hysteresis to hide drift (1 = 5mV)	1	0...10
0E10	Offset sym. "1"	Offset to displace the setpoint voltage (1 = 5mV, -1 = -5mV)	0	-100...100
0E26	Off-decel. delay	Delay controller switch-off	1	1...1000
0E40	Excess speed "A2"	Speed threshold 1/min for output A2 (0E40 is also employed for the fixed speed using input E3 resp. E4; the ramps are stored in 0E64, analog in 0E62)	1500	0...4000
0E4A	Encoder pulses (new)	Encoder pulse number	512 (2048)	512, 1024, 2048
0E58	RS 485 "b5" A01...A99 new programs use f25	Addressing, if setpoint group control is performed "digitally".	1.00	0...99
0E60	Service-flag (emergency operation without encoder)	Emergency operation without encoder (set rotor flux F0 to maximum)	0	0/255
0E62	Ramp gradient 01	Set ramp flat Y0/Y1	335 (1000)	1...5000
0E64	Ramp gradient 34	Set ramp steep Y0/Y1	67 (67)	1...5000
0E68	Emergency-flag OFF = 0	Flag for switching-off the phase monitoring ("phase failure")	255	0/255



The above named program versions are effective from January 2003.

For WinDietz there are the programs BERINGER.CNF, BERINGER.KOM, BERIPACK.KOM and BERINGER.UPD (update for existing older inverters) available from 13. Jan. 2003.

The parameter F10, F23 and the variables 0E0C, 0E10, 0E58 are not shown.

This program version can also be used in older DSV5445. For this the experienced user has to set the parameter F29 to "0"; valid only for firmware TUDYxxx.

The correct function of the analog setpoint input is only guaranteed with our AddOn-filter. All measures for noise suppression have to be completed carefully.