



Technical data

	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
Permissible ripple content	≤ 20 %	≤ 20 %	≤ 20 %	---	≤ 20 %	≤ 20 %
No-load supply current	≤ 10 mA	≤ 17 mA (24 V) ≤ 30 mA (34 V)	≤ 20 mA	≤ 1.5 mA	---	≤ 10 mA
Leakage current at output	≤ 0.1 mA	≤ 0.1 mA	≤ 0.1 mA	---	---	≤ 0.1 mA
Voltage drop, switched state	≤ 2.0 V	≤ 2.5 V	≤ 2.5 V	≤ 8 V	---	≤ 2.0 V
Temperature drift % s _r	≤ 10 %	≤ 10 %	≤ 10 %	≤ 10 %	≤ 10 %	≤ 10 %
Hysteresis % s _r	1...15 % (10 % typ.)	≤ 20 %	≤ 20 %	≤ 20 %	---	1...15% (10% typ.)
Repeat accuracy	≤ 5 % s _r	≤ 5 % s _r	≤ 5 % s _r	≤ 5 % s _r	≤ 5 % s _r	≤ 5 % s _r
(according to IEC 60947-5-2)						
Short-circuit protection	built-in	built-in	built-in	---	built-in	built-in
Polarity reversal protection	built-in	built-in	built-in	built-in	---	built-in
Power-on reset	built-in	built-in	built-in	built-in	---	built-in

	Table 7	Table 8	Table 9	Table 10	Table 11
Permissible ripple content	≤ 20 %	≤ 10 %	---	≤ 15 % / ≤ 20 %***	≤ 20 %
No-load supply current	≤ 10 mA	30 mA (24 VDC) 40 mA (34 VDC)	typ. 1.5 mA (24 V) ≤ 2.0 mA (U _{max})	≤ 10 mA / ≤ 5 mA***	≤ 0.6 mA
Output voltage, damped	0 VDC	---	---	---	---
Output voltage, non-damped	5 VDC / 10 VDC*	---	---	---	---
Leakage current at output	---	0.01 mA	< 2.0 mA	≤ 0.1 mA	---
Voltage drop, switched state	---	≤ 2.5 V	≤ 8 V	≤ 2.0 V	≤ 5.0 V
Temperature drift % s _r	≤ 5 % (0...+70 °C) ≤ 10 % (-25...0 °C)**	≤ 10 %	≤ 10 %	≤ 15 %	≤ 10 %
Hysteresis % s _r	---	1 ... 15 %	1 ... 15 %	3...15%/2...20%****	1...15% (10% typ.)
Repeat accuracy	---	≤ 5 % s _r	≤ 5 % s _r	≤ 0.02 mm	≤ 5 % s _r
(according to IEC 60947-5-2)					
Short-circuit protection	built-in	built-in	---	built-in	built-in
Polarity reversal protection	built-in	built-in	---	built-in	---*****
Power-on reset	built-in	built-in	built-in	---	built-in

* DW-A#-5#9-M##-320/39# ** ≤ 5% (+32 ... +158 °F) / ≤ 10% (-13 ... +32 °F) *** amplifier **** see data sheets ***** non-polarized devices

