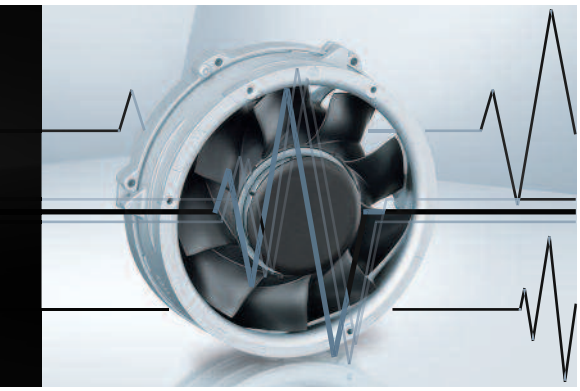
Alarm signal /17



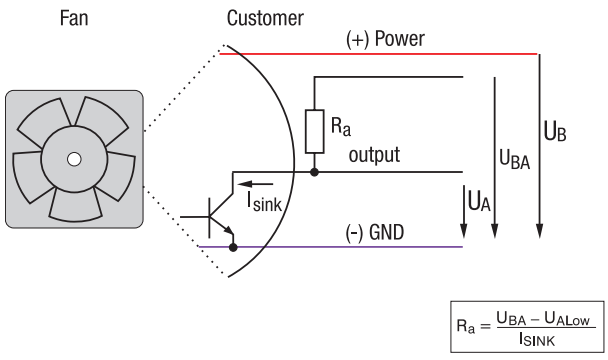
- Alarm signal for speed monitoring
- Signal output via open collector
- The fan emits a continuous high signal during trouble-free operation within the permissible voltage range.
- Low signal when speed limit is not reached
- After elimination of the fault, the fan returns to its setpoint speed; the alarm signal reverts to high.

Alarm signal data	Alarm output voltage U_A Low	Condition:	Condition: I_{sink} =	Alarm output voltage U_A High	Condition:	Condition: I_{source}	Alarm operating voltage U_{BA} max.	Max. permissible sink current	Alarm startup delay time t_6	Condition:	Speed limit n_G	Fan description Basic type
Type	**VDC**		**mA**	**VDC**		**mA**	**VDC**	**mA**	**s**		**min^{-1}**	**Page**
8318 /17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	46
8318 /17 H	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	46
4318 /17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	850 ± 100	56
4184 N /17 X	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	60

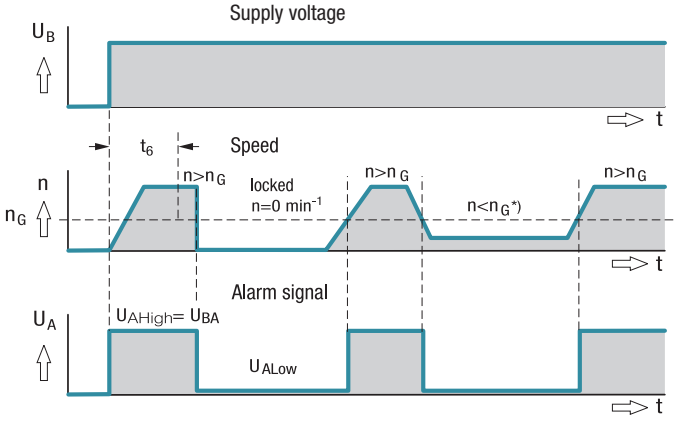
Subject to change

Note:
Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.

Electrical hookup



All voltages measured to ground.
External load resistor R_a from U_A to U_{BA} required.



t_6 = Alarm signal suppression during startup.
* n < speed limit n_G by braking or locking.

ebmpapst

Available on request:

- Integrated signal storage for subsequent recognition of short-term faults (latch).
- Alarm circuit open collector or TTL.
- Electrically isolated for maximum device safety
  Defects in the power circuit do not affect the alarm circuit.

Alarm signaldata	Alarm output voltage $U_{A\ Low}$	Condition:	Condition: I_{sink} =	Alarm output voltage $U_{A\ High}$	Condition:	Condition: I_{source}	Alarm operating voltage $U_{BA\ max.}$	Max. permissible sink current	Alarm startup delay time t_G	Condition:	Speed limit n_G	Fan description Basic type
Type	**VDC**		**mA**	**VDC**		**mA**	**VDC**	**mA**	**s**		**min^{-1}**	**Page**
4312/17 MT VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	57
4312/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	57
4314/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1150 ± 100	57
4318/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	850 ± 100	57
7214 N/17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	15	≤ 15	*	1330 ± 60	70

Subject to change

* After switching on U_B

Note:
Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.