Alarm signal /19

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

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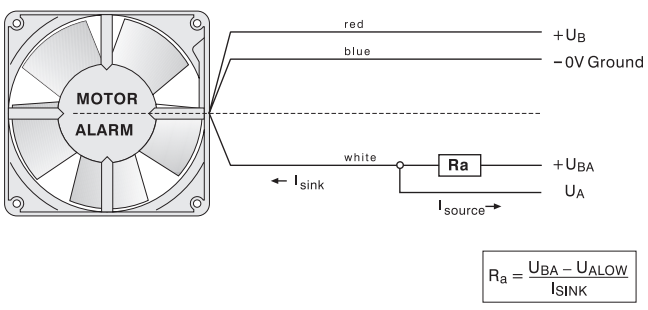
Alarm signal data	Alarm output voltage $U_{A\,Low}$	Condition:	Condition: I_{sink} =	Alarm output voltage $U_{A\,High}$	Condition:	Condition: I_{source} =	Alarm operating voltage $U_{BA\,max.}$	Max. permissible sink current	Alarm delay time t_2	Condition:	Speed limit n_G	Fan description
Type	**V DC**		**mA**	**V DC**		**mA**	**V DC**	**mA**	**S**		**min⁻¹**	**Page**
8314/19 H	≤0.4	n > nG	2	60	n < nG	0	≤60	20	≤15	*	1500 ± 100	30
4312/19	≤0.4	n > nG	2	60	n < nG	0	≤60	20	≤15	*	1500 ± 100	37
4212/19 M	≤0.4	n > nG	2	60	n < nG	0	≤60	20	≤15	*	1500 ± 100	40
4214/19	≤0.4	n > nG	2	60	n < nG	0	≤60	20	≤15	*	1500 ± 100	40
7214 N/19	≤0.4	n > nG	2	60	n < nG	0	4.5–60	10	10 ± 4	*	1800 ± 20	47
DV 6224/19	≤0.4	n > nG	2	≤28	n < nG	0	16–28	10	10 ± 4	*	1900 ± 100	50

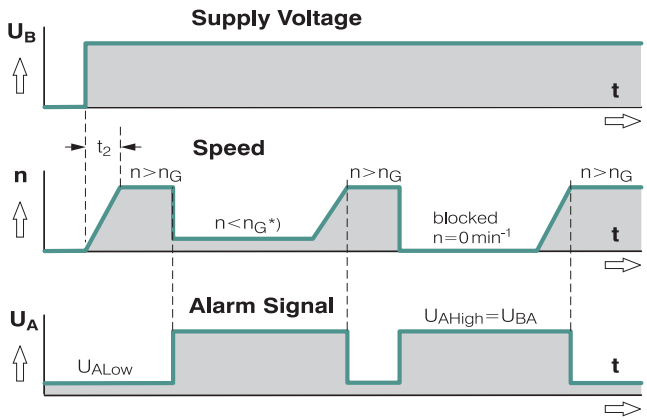
* After switching on U_B

Attention:
With these fan specials, deviations as regards temperature range, voltage range and power consumption are possible compared with standard fans.

Available on request:
- With integrated signal latching for subsequent recognition of short-term faults
- Alarm circuit open collector or TTL
- Galvanically separated for max. device safety; defects in power circuit have no effect on the alarm circuit.

Electrical connection





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

t_2 = Alarm signal suppression during start-up
* n < Speed limit n_G by braking or blocking.

Alarm signal /37

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

Available on request:
- Alarm circuit TTL compatible

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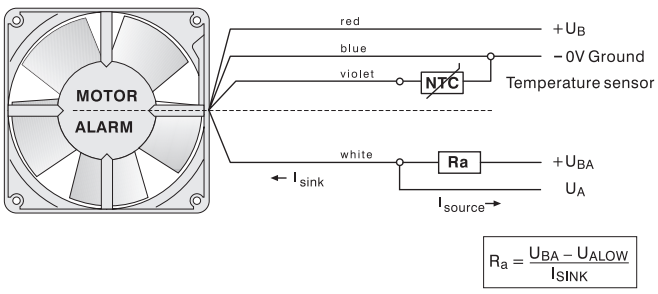
Alarm signal data	Alarm output voltage $U_{A\,Low}$	Condition:	Condition: I_{sink} =	Alarm output voltage $U_{A\,High}$	Condition:	Condition: I_{source} =	Alarm operating voltage $U_{BA\,max.}$	Max. permissible sink current I_{sink}	Alarm delay time t_2	Condition:	Speed limit n_G	Fan description
Type	**V DC**		**mA**	**V DC**		**mA**	**V DC**	**mA**	**S**		**min⁻¹**	**Page**
612 N/37 GNV	≤0.4	n ≤ nG	2	28	n > nG	0	≤28	10	<1	*	0	24
8412 N/37 GMLV	≤0.4	n ≤ nG	2	28	n > nG	0	≤28	10	<1	*	0	28
3412 N/37 GMV	≤0.4	n ≤ nG	2	28	n > nG	0	≤28	10	<1	*	0	31
3412 N/37 GV	≤0.4	n ≤ nG	2	28	n > nG	0	≤28	10	<1	*	0	31

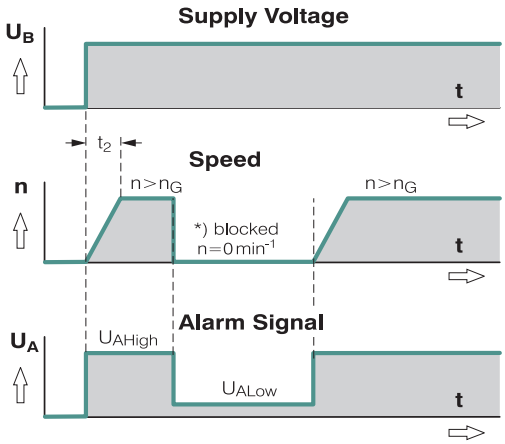
* After switching on U_B

Attention:
With these fan specials, deviations as regards temperature range, voltage range and power consumption are possible compared with standard fans.

Electrical connection



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



t_2 = Alarm signal suppression during start-up
* n < Speed limit n_G by braking or blocking.