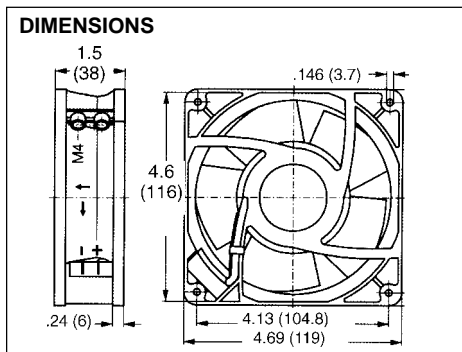
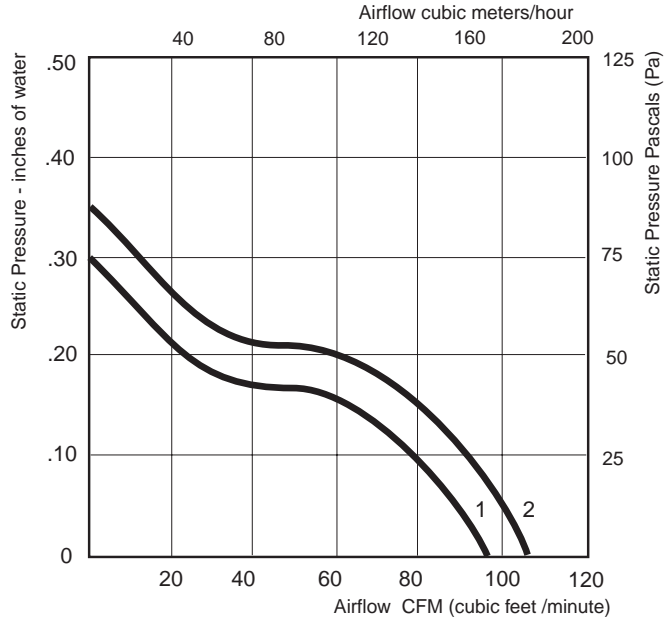


119 x 38 mm (4.7" X 1.5") Brushless DC

4100 Series



HIGH PERFORMANCE
SINTEC
 SLEEVE BEARING SYSTEM

4.69" X 4.96" X 1.50" Brushless DC, Metal housing, Plastic Impeller, Air Intake – Over Struts

Curve	PART NUMBER	Type of Bearing	DC Volts	Voltage Range	CFM @ 0"	Watts	dBA	Temp. Max °C	Wgt. (oz)	Features	Approvals*		
											UL	CSA	VDE
1	4182NGX	Sleeve	12	7 - 15	3.5	94	44	75	14	.110" x .02" Terminals	✓	✓	✓
2	4182NX	Ball	12	7 - 15	4.5	106	49	75	14	.110" x .02" Terminals	✓	✓	✓
1	4184NGX	Sleeve	24	12 - 30	3.5	94	44	75	14	.110" x .02" Terminals	✓	✓	✓
2	4184NX	Ball	24	12 - 29	4.5	106	49	75	14	.110" x .02" Terminals	✓	✓	✓
1	4188NXM	Ball	48	36 - 56	3.5	94	44	75	14	.110" x .02" Terminals	✓	✓	✓
1	4105GX	Sleeve	5	4.5 - 5.5	4.0	94	44	72	17	.110" x .02" Terminals	–	–	–

* UL yellow card E38324, CSA file 27697, VDE file 8324

CONSTRUCTION MOUNTING & CONNECTION	Mounting:	From either face using four .146" (3.7 mm) holes	Connection:	Terminals two flat pins: .110" x .02" (2.8 x .5 mm)
	Weight:	14 ounces (390g) except 4105GX	Options:	Hall Effect monitor
	Housing:	Metal with plastic impeller		

Call **ebm/Papst** at 860-674-1515 • Fax 860-674-8536 • E-mail: sales@ebm.com for Technical Assistance

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Alarm signal /17

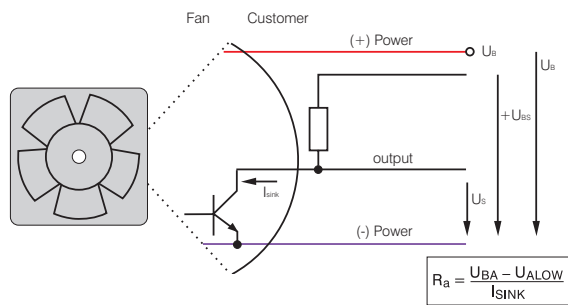


- Alarm signal for speed monitoring.
- Signal output via open collector.
- The fan emits a high continuous signal during trouble-free operation within the permissible voltage range.
- Low signal when speed limit is not reached.
- After elimination of fault, the fan returns to its desired speed; the alarm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

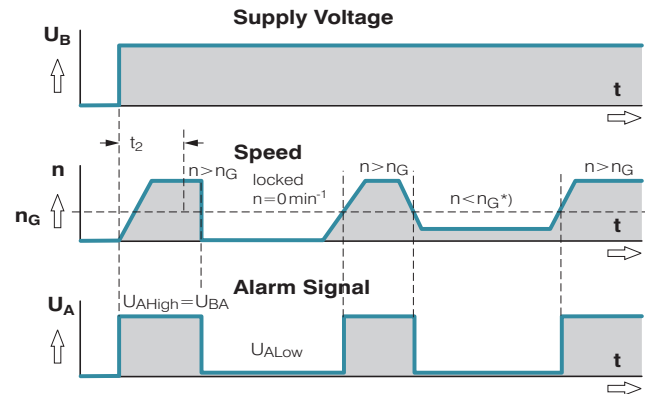
Alarm signal-data	Alarm output-voltage $U_{A,Low}$	Condition:	Condition: $I_{SINK} =$	Alarm output-voltage $U_{A,High}$	Condition:	Condition: I_{SOURCE}	Alarm operating-voltage $U_{BA,max}$	Max. permissible Sink current	Alarm delay time t_2	Condition:	Speed limit n_G	Fan description
Type	V DC		mA	V DC		mA	V DC	mA	S		min ⁻¹	Page
8318 /17	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	35
8318 /17 H	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	35
3312 /17	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	39
3314 /17	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	39
3318 /17 H	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	39
4318 /17 M	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1150 ± 100	44
4318 /17	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	850 ± 100	44
4214 /17	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1150 ± 100	47
4184 N /17 X	≤ 0.4	$n < n_G$	2	60	$n > n_G$	0	≤ 60	20	≤ 15	*	1500 ± 100	48

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.
 With VARIOFANS with external temperature sensor for controlling the motor speed, the NTC sensor is not included in the scope of delivery.
 Temperature sensor LZ 370, see Accessories.



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

Available on request:

- With integrated signal latching for subsequent recognition of short-time faults.
- Alarm circuit open collector or TTL.
- Galvanically isolated for maximum device safety;
Defects in the power circuit do not affect the alarm circuit.

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 $U_{B,max}$	Max. permissible Sink current	Alarm delay-time t_d	Condition:	Speed limit n_g	Fan description
Type	V DC		mA	V DC		mA	V DC	mA	S		min ⁻¹	Page
4312/17 MV VARIOFAN	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	20	≤ 15	*	1500 ± 100	45
4312/17 T VARIOFAN	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	20	≤ 15	*	1500 ± 100	45
4314/17 V VARIOFAN	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	20	≤ 15	*	1150 ± 100	45
4318/17 V VARIOFAN	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	20	≤ 15	*	850 ± 100	45
5112 N/17	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	20	≤ 15	*	1250 ± 50	54
7214 N/17	≤ 0.4	n < nG	2	60	n > nG	0	≤ 60	15	≤ 15	*	1330 ± 60	57
DV 6224/17	≤ 0.4	n < nG	2	60–28	n > nG	0	≤ 60	10	10 ± 4	*	1900 ± 100	61
* 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.