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Nominal data

Type	R3G400-AC32-71	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	1370
Power input	W	410
Current draw	A	2.5
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
 Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	56.8	43.2	47.2
Efficiency grade N		71.6	58	62
Power input P_{ed}	kW	0.39		
Air flow q_v	m ³ /h	2105		
Pressure increase p_{fs}	Pa	345		
Speed n	min ⁻¹	1375		

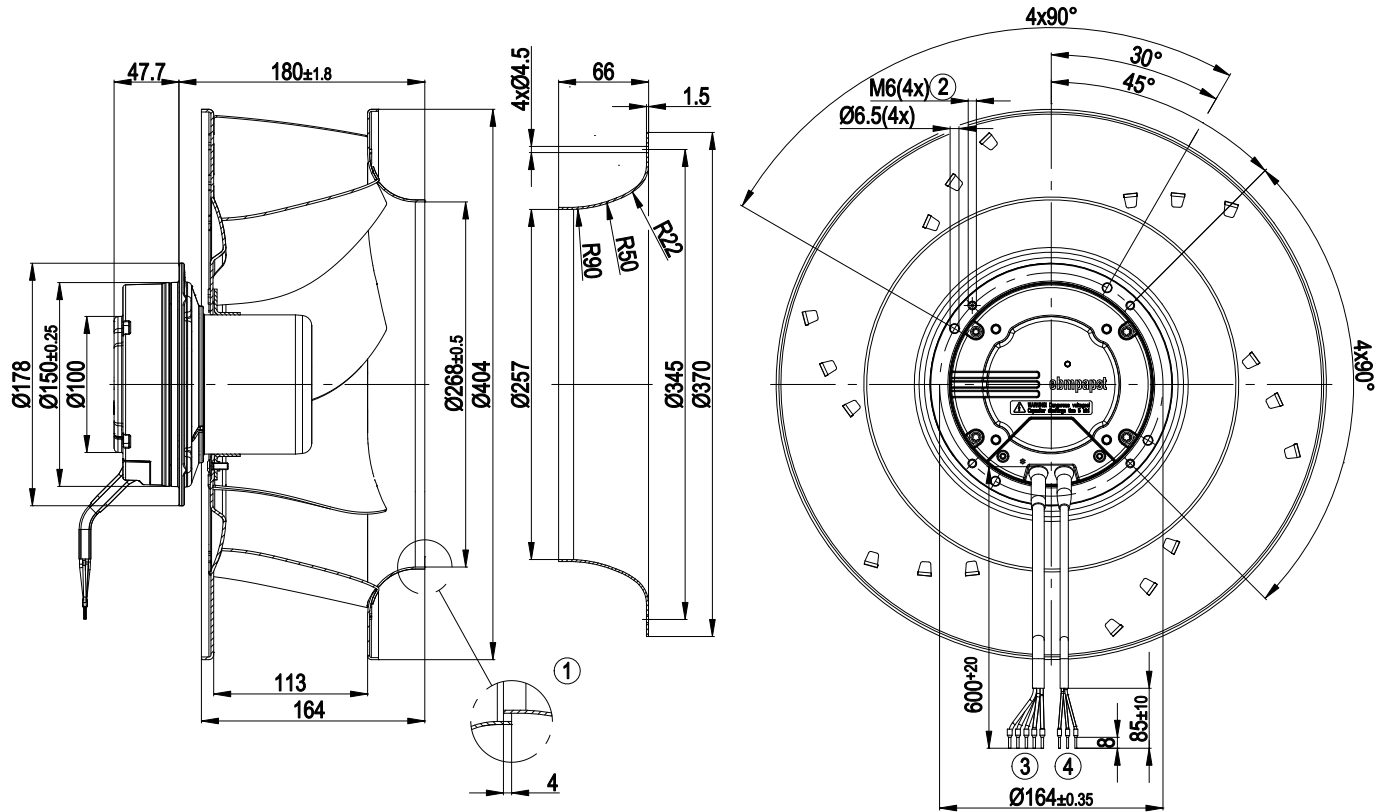
Data definition with optimum efficiency. LU-65706
 The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

Mass	6.17 kg
Size	400 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	CSA C22.2 Nr.77; EAC; UL 2111

Product drawing

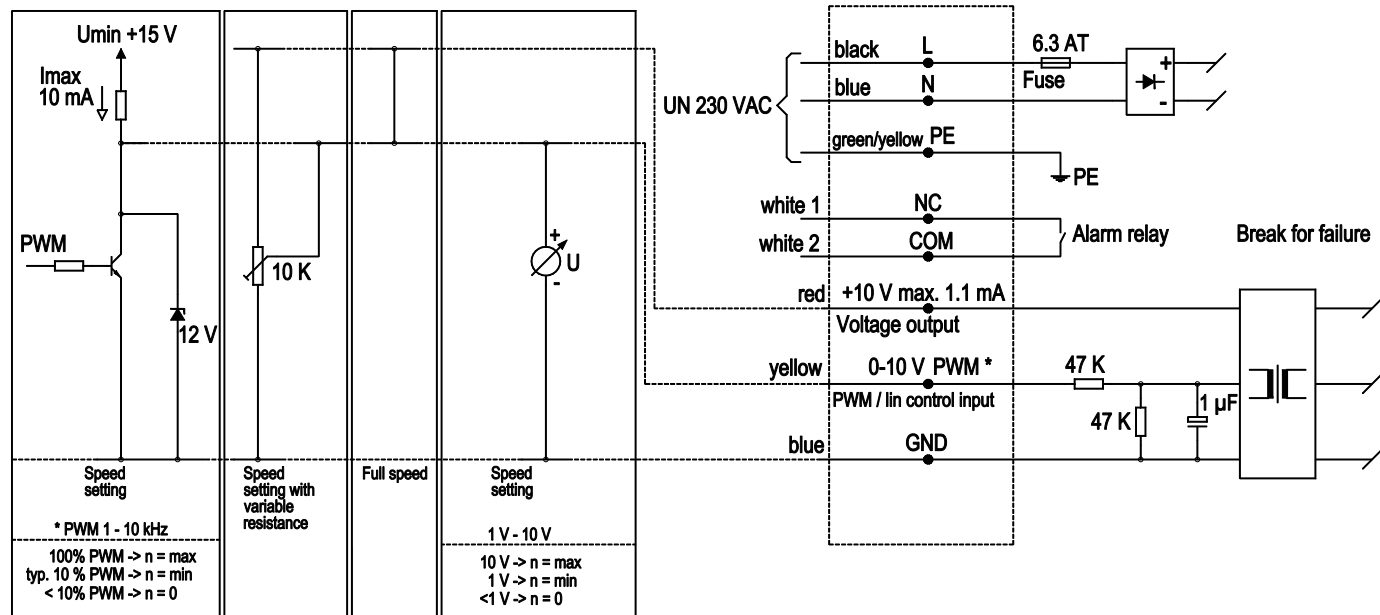


1	Accessory part: inlet nozzle 54476-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
2	Depth of screw 8 - 10 mm
3	Connection line AWG18, 5 x crimped core-end sleeves
4	Connection line AWG 22, 3 x crimped core-end sleeves

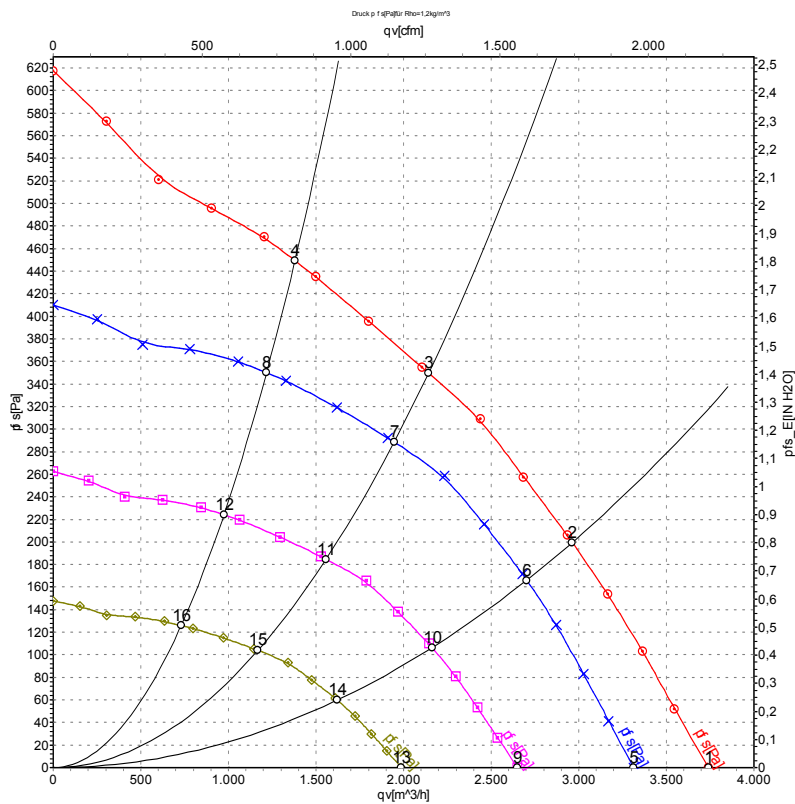
Connection screen

Customer circuit

Notes on various control possibilities and their applications



Charts: Air flow 50 Hz



Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _{ed}	I	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	1410	359	2.21	3740	0
2	230	50	1370	401	2.45	2965	200
3	230	50	1375	397	2.42	2145	350
4	230	50	1415	356	2.18	1380	450
5	230	50	1250	249	1.53	3310	0
6	230	50	1250	305	1.86	2705	167
7	230	50	1250	298	1.82	1945	289
8	230	50	1250	245	1.50	1220	350
9	230	50	1000	127	0.78	2650	0
10	230	50	1000	156	0.95	2160	107
11	230	50	1000	152	0.93	1555	185
12	230	50	1000	125	0.77	975	224
13	230	50	750	54	0.33	1985	0
14	230	50	750	66	0.40	1620	60
15	230	50	750	64	0.39	1170	104
16	230	50	750	53	0.32	730	126

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · P_{fs} = Pressure increase