Energy-saving axial fans

version 03/2009

The engineer's choice

ebmpapst

New energy-saving axial fans

The new generation of compact energy-saving axial fans

In almost all spheres of life, energy savings have become an important issue by now. Our new and compact axial fans are based on the energy-saving motor (ESM) and offer high efficiency and thus considerable energy savings and improved service life at the same time - aspects which are definitely called for with refrigeration plants, such as refrigerated display cases or refrigeration chests or condensing units.

The axial fan W1G 200 already established quite successfully on the market has now been complemented by the sizes 172, 230, 250 and 300 mm. The new plastic rotor was optimised to meet improved aerodynamic criteria and makes these fans operate even more quietly. What is more, they environment benefits from the fact that no varnish needs to be used any more!

Compared to conventional shaded pole motors, energy-saving motors are three times as efficient. Higher efficiency translates into less intrinsic heat generated during operation, with a reduced need to dissipate heat and putting a strain on the environment. This results in further energy savings, as less refrigeration capacity has to be applied in the first instance.

The new and compact energy-saving axial fans, with an output power of between 5 and 20 W, can be easily connected via a plug-in connection. Moreover, the motor speed can be optionally set via programming interface. A second speed step - e.g. for night setback, can be realised via actuator input.

The energy-saving fans are robust, maintenance-free and durable. Their service life is rated at more than 40,000 hours, equalling continuous operation of more than 4.5 years. As regards environmental impacts, their design complies with protection type IP 54 specifications. Optionally, protection type IP 65 is available. Moreover, these energy-saving axial fans comply with protection class 2.

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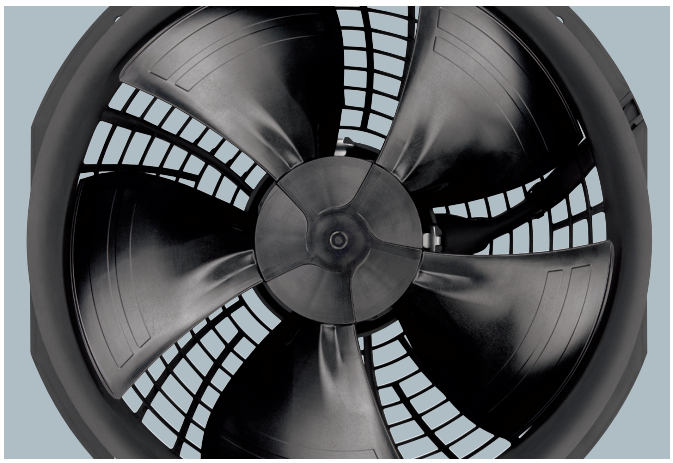

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Energy-saving axial fans

Ø 172

- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE;
  UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

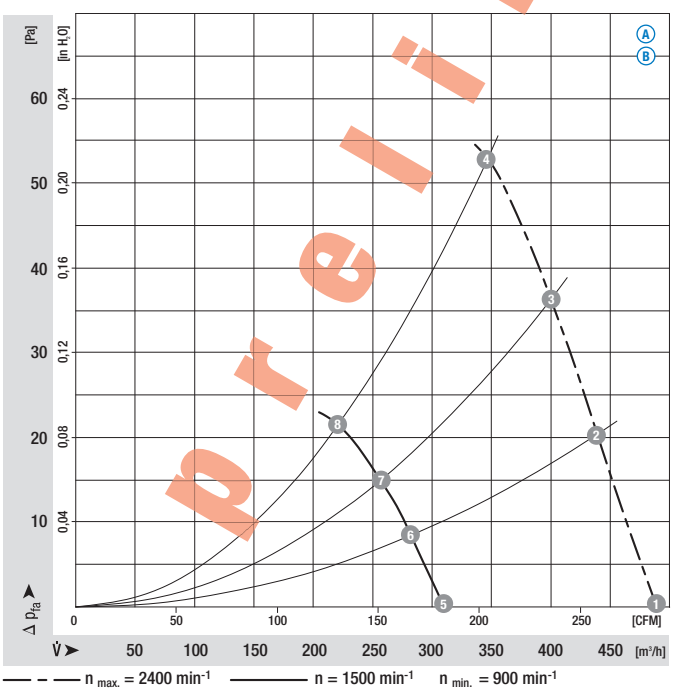
Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
			VAC	Hz	rpm	W	A	Pa	°C	kg
W1G172-EC95 -01	M1G 055-BD	Ⓐ	115	50/60	2400	22	0,34	55	-30..+50	0,95
W1G172-EC91 -01	M1G 055-BD	Ⓑ	230	50/60	2400	22	0,17	55	-30..+50	0,95

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



n max. = 2400 min⁻¹ n = 1500 min⁻¹ n min. = 900 min⁻¹

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	2400	19	0,30	53
Ⓐ 2	2400	21	0,32	53
Ⓐ 3	2400	22	0,34	53
Ⓐ 4	2400	22	0,34	53
Ⓐ 5	1500	8	0,12	42
Ⓐ 6	1500	8	0,14	43
Ⓐ 7	1500	9	0,14	43
Ⓐ 8	1500	9	0,14	44
Ⓑ 1	2400	19	0,15	53
Ⓑ 2	2400	21	0,16	53
Ⓑ 3	2400	22	0,17	53
Ⓑ 4	2400	22	0,17	53
Ⓑ 5	1500	8	0,06	42
Ⓑ 6	1500	8	0,07	43
Ⓑ 7	1500	9	0,07	43
Ⓑ 8	1500	9	0,07	44

preliminary data

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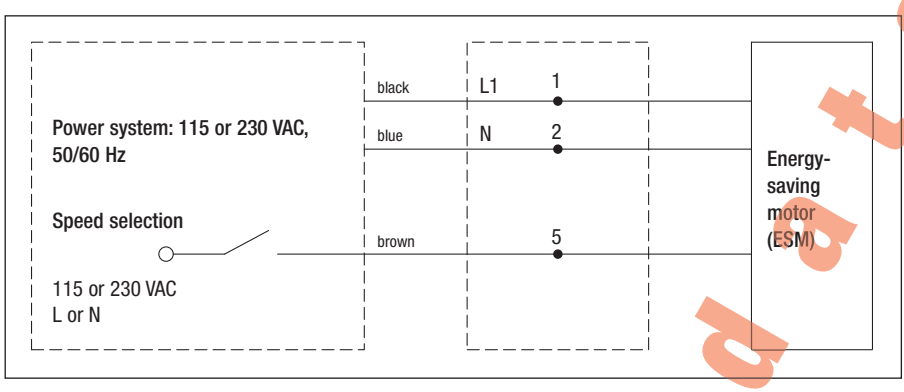
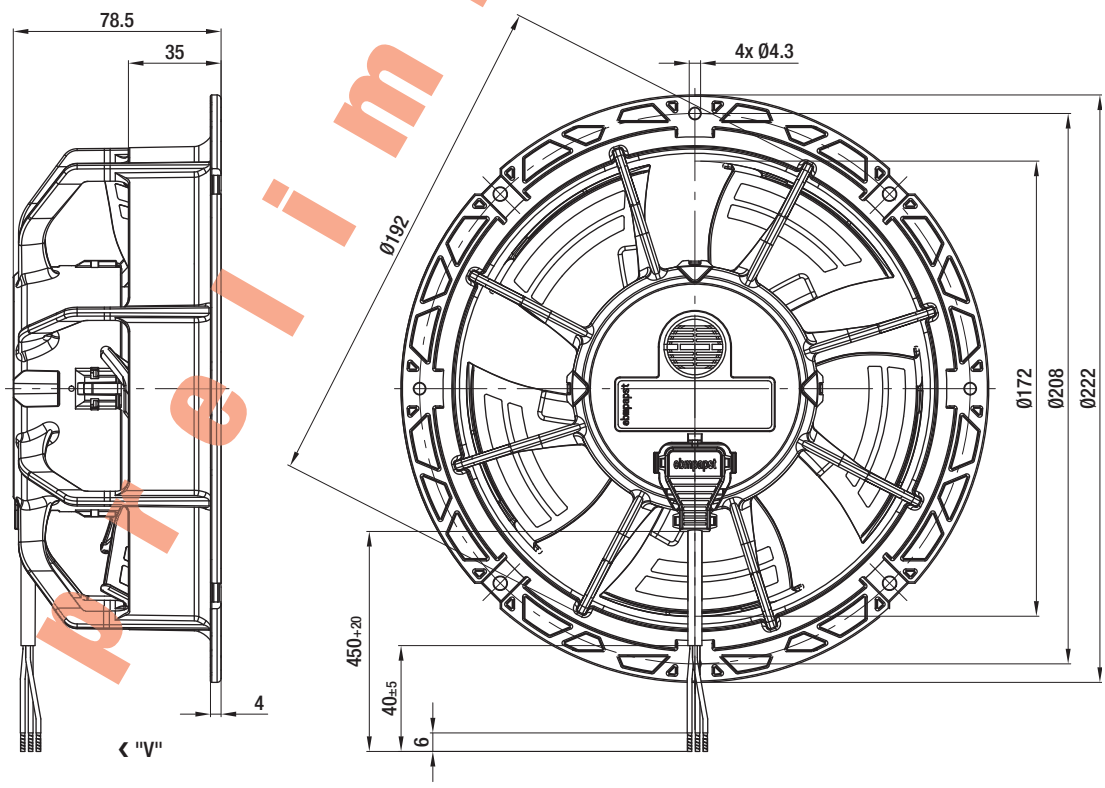
– **Electr. connection:**



preliminary data



Energy-saving axial fans

Ø 200

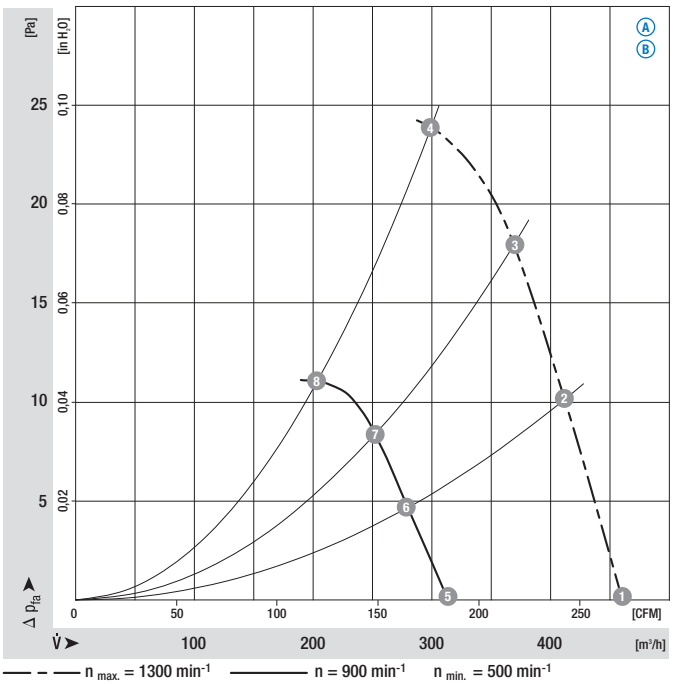
- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE;
  UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

Nominal data		Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**Pa**	**°C**	**kg**
W1G200-EC91 -27	M1G 055-BD	Ⓐ	115	50/60	1300	8,0	0,11	24	-30..+50	1,0
W1G200-EC87 -25	M1G 055-BD	Ⓑ	230	50/60	1300	8,5	0,07	24	-30..+50	1,0

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



—— – —— $n_{max.}$ = 1300 min^{-1} ——— n = 900 min^{-1} $n_{min.}$ = 500 min^{-1}

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	1300	7	0,09	42
Ⓐ 2	1300	8	0,10	41
Ⓐ 3	1300	8	0,10	41
Ⓐ 4	1300	8	0,11	42
Ⓐ 5	900	3	0,05	33
Ⓐ 6	900	4	0,05	32
Ⓐ 7	900	4	0,05	32
Ⓐ 8	900	4	0,05	33
Ⓑ 1	1300	7	0,06	42
Ⓑ 2	1300	8	0,07	41
Ⓑ 3	1300	8,5	0,07	41
Ⓑ 4	1300	8,5	0,07	42
Ⓑ 5	900	3	0,03	33
Ⓑ 6	900	4	0,04	32
Ⓑ 7	900	4	0,04	32
Ⓑ 8	900	4	0,04	33

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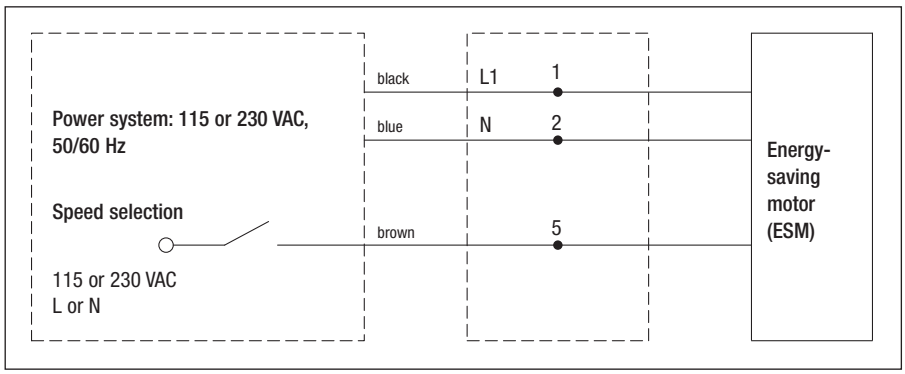
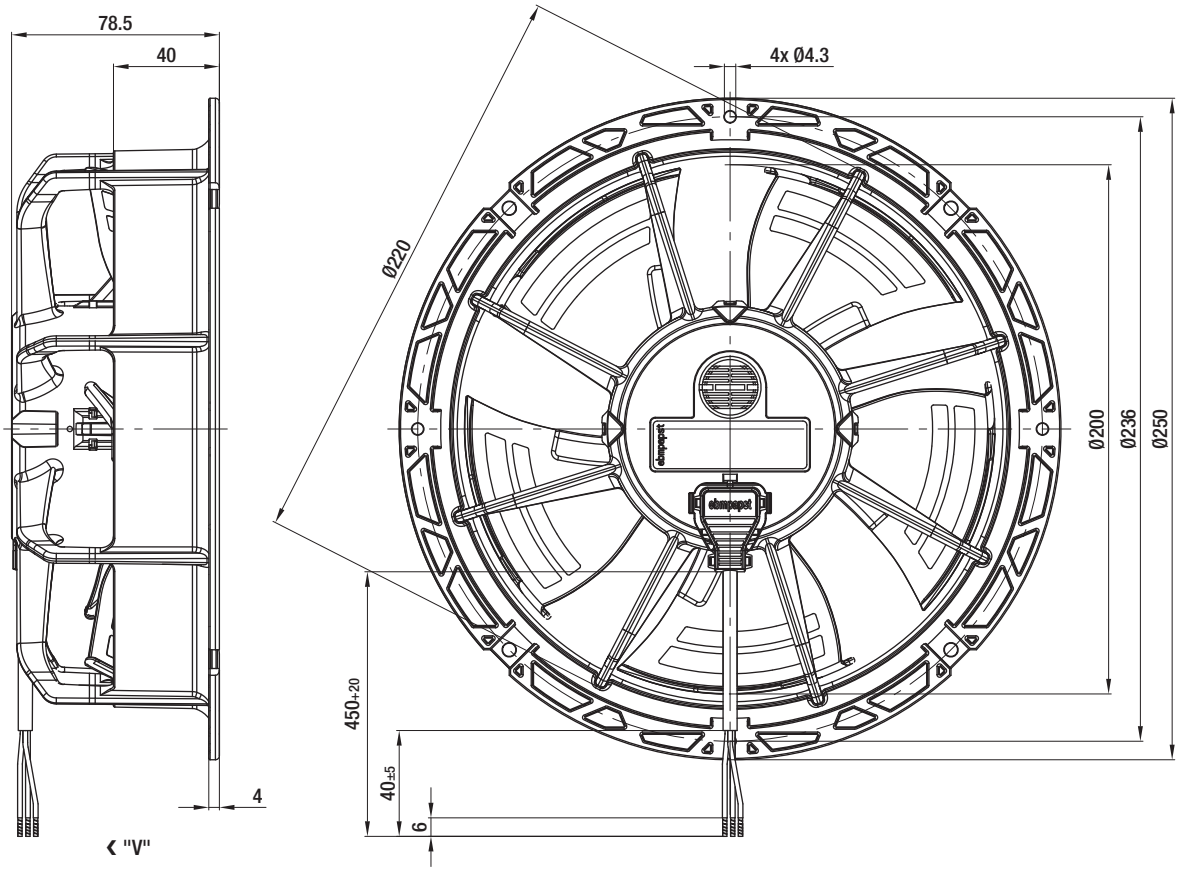
– **Electr. connection:**





Energy-saving axial fans

Ø 200

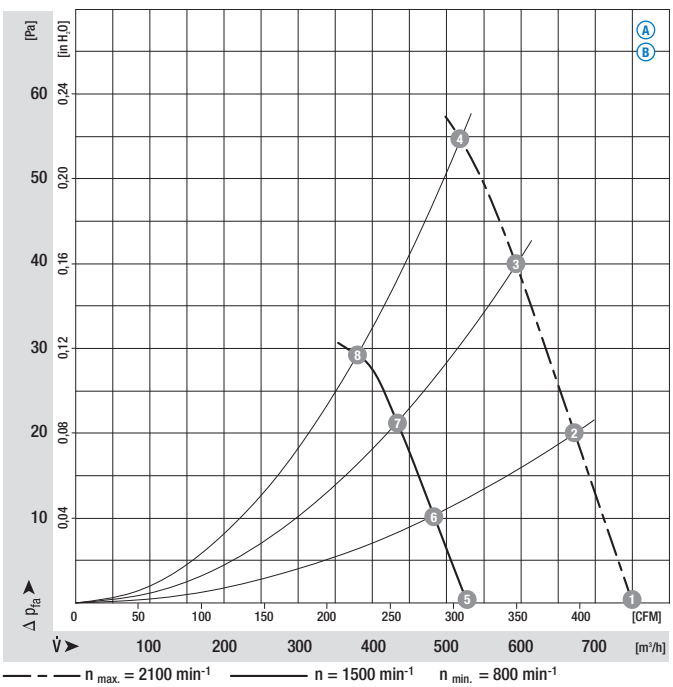
- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE;
  UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

Nominal data		Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**Pa**	**°C**	**kg**
W1G200-EC95 -47	M1G 055-BD	Ⓐ	115	50/60	2100	31	0,48	55	-30..+50	1,0
W1G200-EC91 -45	M1G 055-BD	Ⓑ	230	50/60	2100	31	0,24	55	-30..+50	1,0

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



n max. = 2100 min⁻¹ — n = 1500 min⁻¹ — n min. = 800 min⁻¹

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	2100	29	0,44	55
Ⓐ 2	2100	30	0,46	54
Ⓐ 3	2100	31	0,48	53
Ⓐ 4	2100	31	0,48	55
Ⓐ 5	1500	14	0,22	46
Ⓐ 6	1500	16	0,24	45
Ⓐ 7	1500	16	0,26	45
Ⓐ 8	1500	16	0,26	46
Ⓑ 1	2100	29	0,22	55
Ⓑ 2	2100	30	0,23	54
Ⓑ 3	2100	31	0,24	53
Ⓑ 4	2100	31	0,24	55
Ⓑ 5	1500	14	0,11	46
Ⓑ 6	1500	16	0,12	45
Ⓑ 7	1500	16	0,13	45
Ⓑ 8	1500	16	0,13	46

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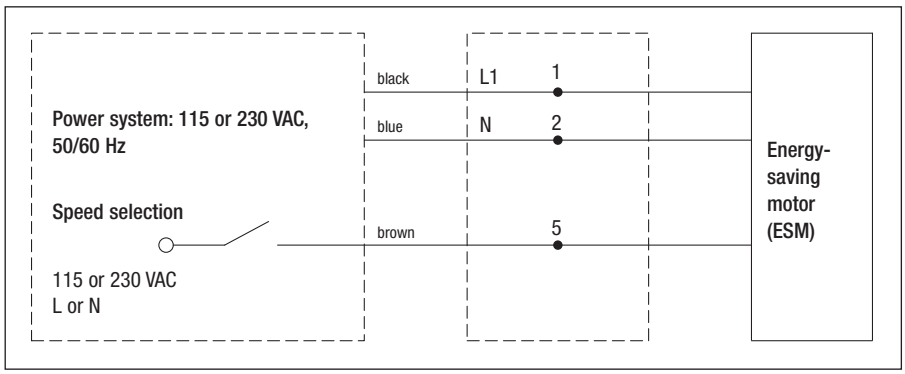
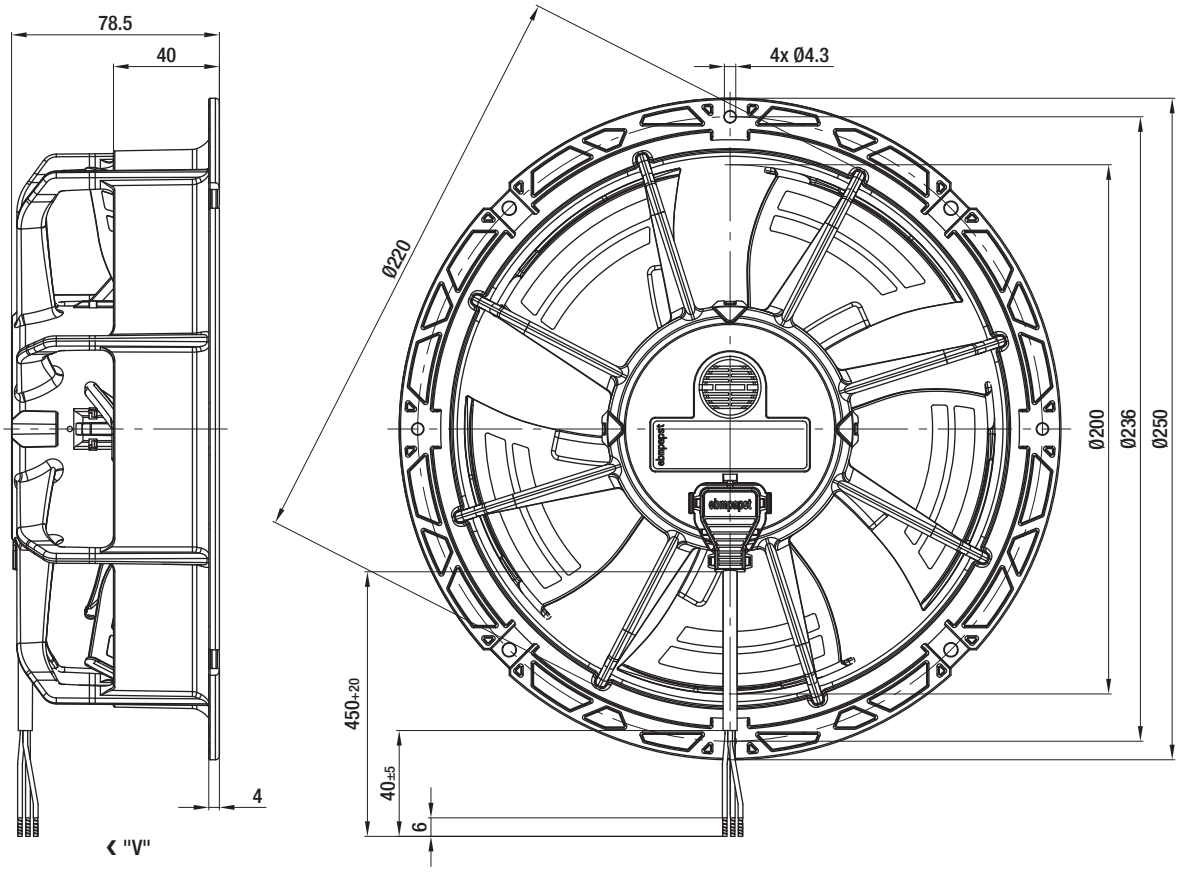
– **Electr. connection:**





‹ "V"

Connection lead
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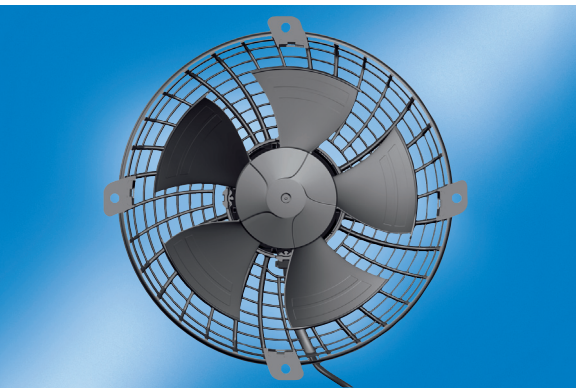
Energy-saving axial fans

Ø 200



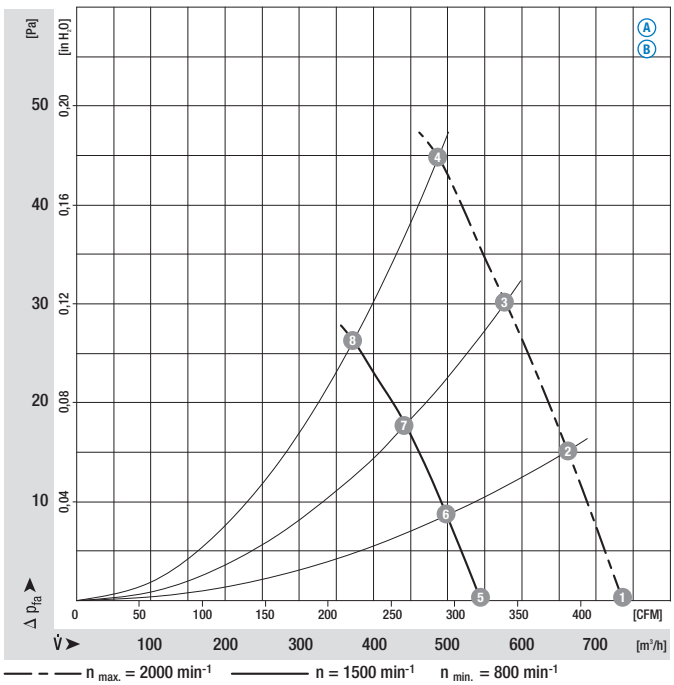
- **Material:** Blade: Plastic PA
  Guard grille: Plastic PP
- **Number of blades:** 5
- **Direction of air flow:** "A", intake over guard grille
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE; UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

Nominal data		Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**Pa**	**°C**	**kg**
S1G 200-CA95 -02	M1G 055-BD	Ⓐ	115	50/60	2000	31	0,43	45	-30..+50	0,95
S1G 200-CA91 -02	M1G 055-BD	Ⓑ	230	50/60	2000	33,5	0,25	45	-30..+50	0,95

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



— – — $n_{max.}$ = 2000 min^{-1} ——— n = 1500 min^{-1} $n_{min.}$ = 800 min^{-1}

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	2000	30	0,43	54
Ⓐ 2	2000	30	0,43	54
Ⓐ 3	2000	30	0,43	53
Ⓐ 4	2000	31	0,43	54
Ⓐ 5	1500	17	0,29	50
Ⓐ 6	1500	18	0,29	50
Ⓐ 7	1500	19	0,29	49
Ⓐ 8	1500	20	0,29	50
Ⓑ 1	2000	32	0,24	54
Ⓑ 2	2000	33	0,25	54
Ⓑ 3	2000	33	0,25	53
Ⓑ 4	2000	33,5	0,25	54
Ⓑ 5	1500	18	0,16	50
Ⓑ 6	1500	19	0,16	50
Ⓑ 7	1500	19	0,16	49
Ⓑ 8	1500	20	0,16	50

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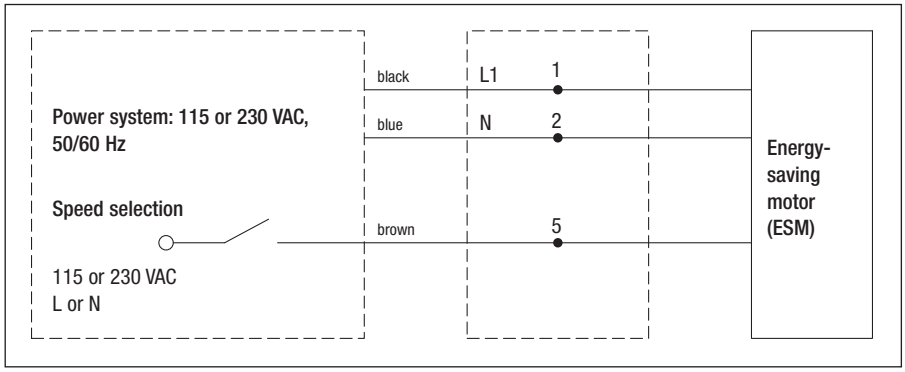
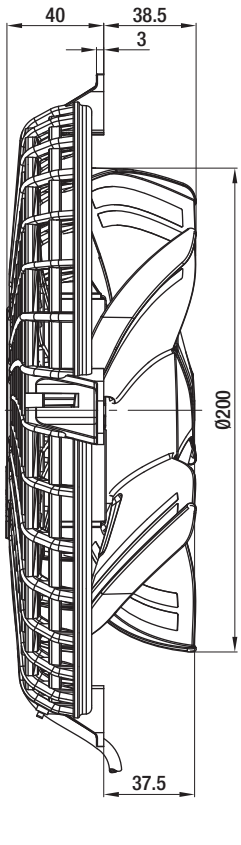
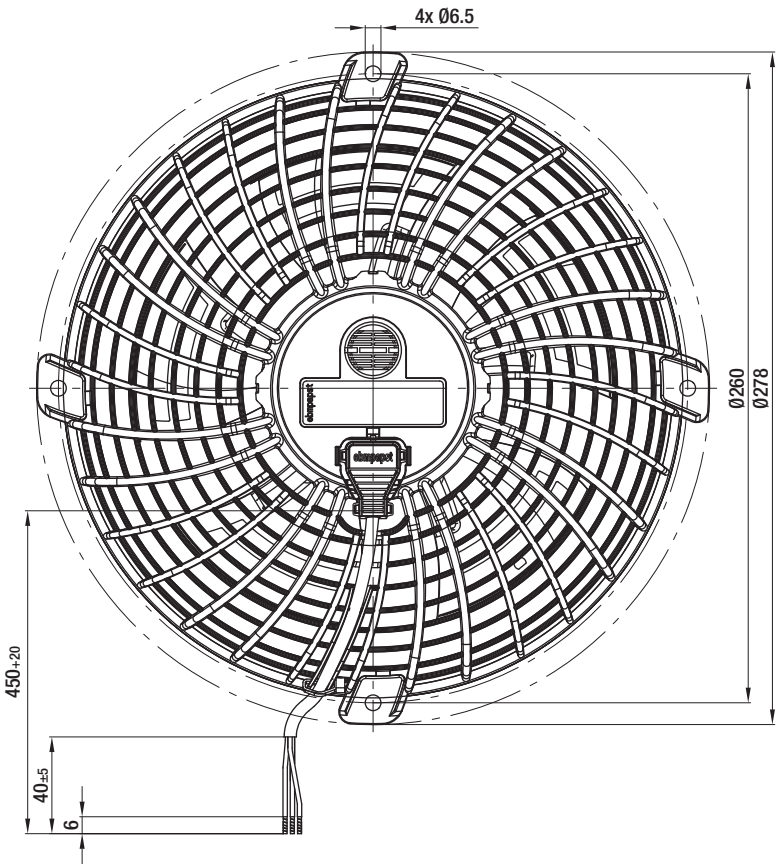
– **Electr. connection:**





"A" ›



Connection lead
p. 20

Energy-saving axial fans

Ø 230

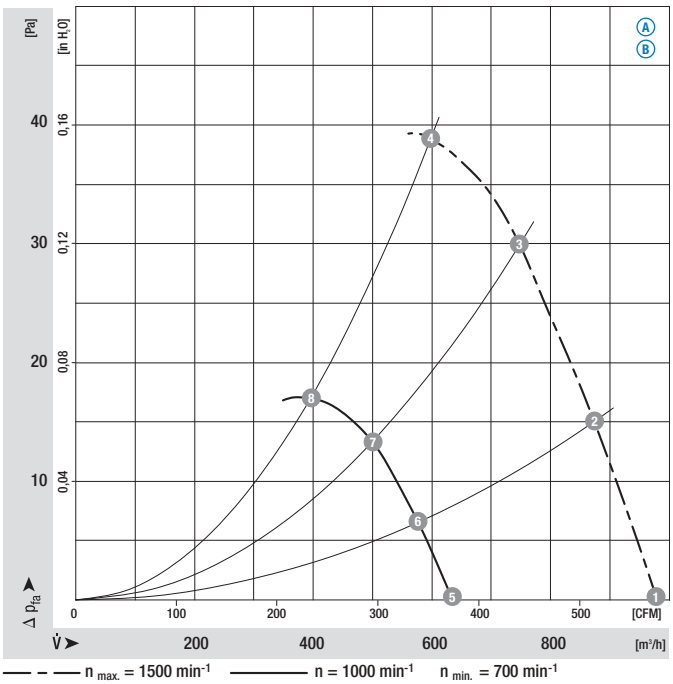
- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE;
  UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

Nominal data		Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**Pa**	**°C**	**kg**
W1G230-EB97 -01	M1G055-BD	Ⓐ	115	50/60	1500	23	0,35	38	-30..+50	1,05
W1G230-EB89 -01	M1G055-BD	Ⓑ	230	50/60	1500	26	0,20	38	-30..+50	1,05

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



—— – – —— $n_{max.}$ = 1500 min^{-1} ——— n = 1000 min^{-1} $n_{min.}$ = 700 min^{-1}

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	1500	23	0,35	51
Ⓐ 2	1500	23	0,35	51
Ⓐ 3	1500	23	0,35	50
Ⓐ 4	1500	23	0,35	50
Ⓐ 5	1000	9	0,15	39
Ⓐ 6	1000	10	0,16	39
Ⓐ 7	1000	10	0,16	40
Ⓐ 8	1000	10	0,16	40
Ⓑ 1	1500	24	0,19	51
Ⓑ 2	1500	25	0,19	51
Ⓑ 3	1500	25	0,19	50
Ⓑ 4	1500	26	0,20	50
Ⓑ 5	1000	10	0,09	39
Ⓑ 6	1000	11	0,09	39
Ⓑ 7	1000	11	0,09	40
Ⓑ 8	1000	11	0,09	40

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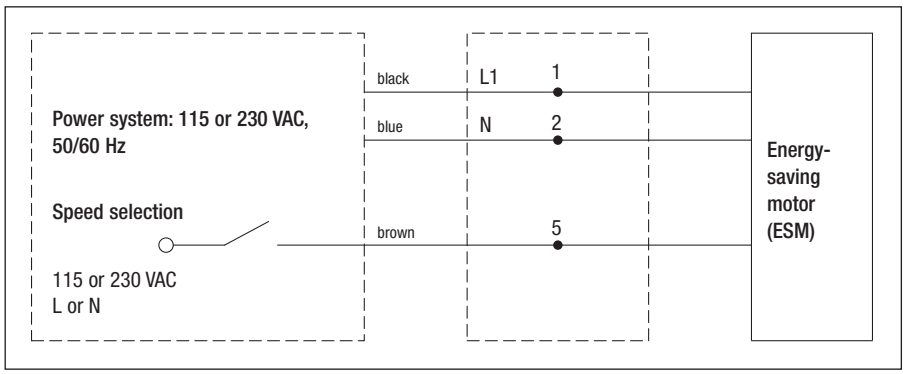
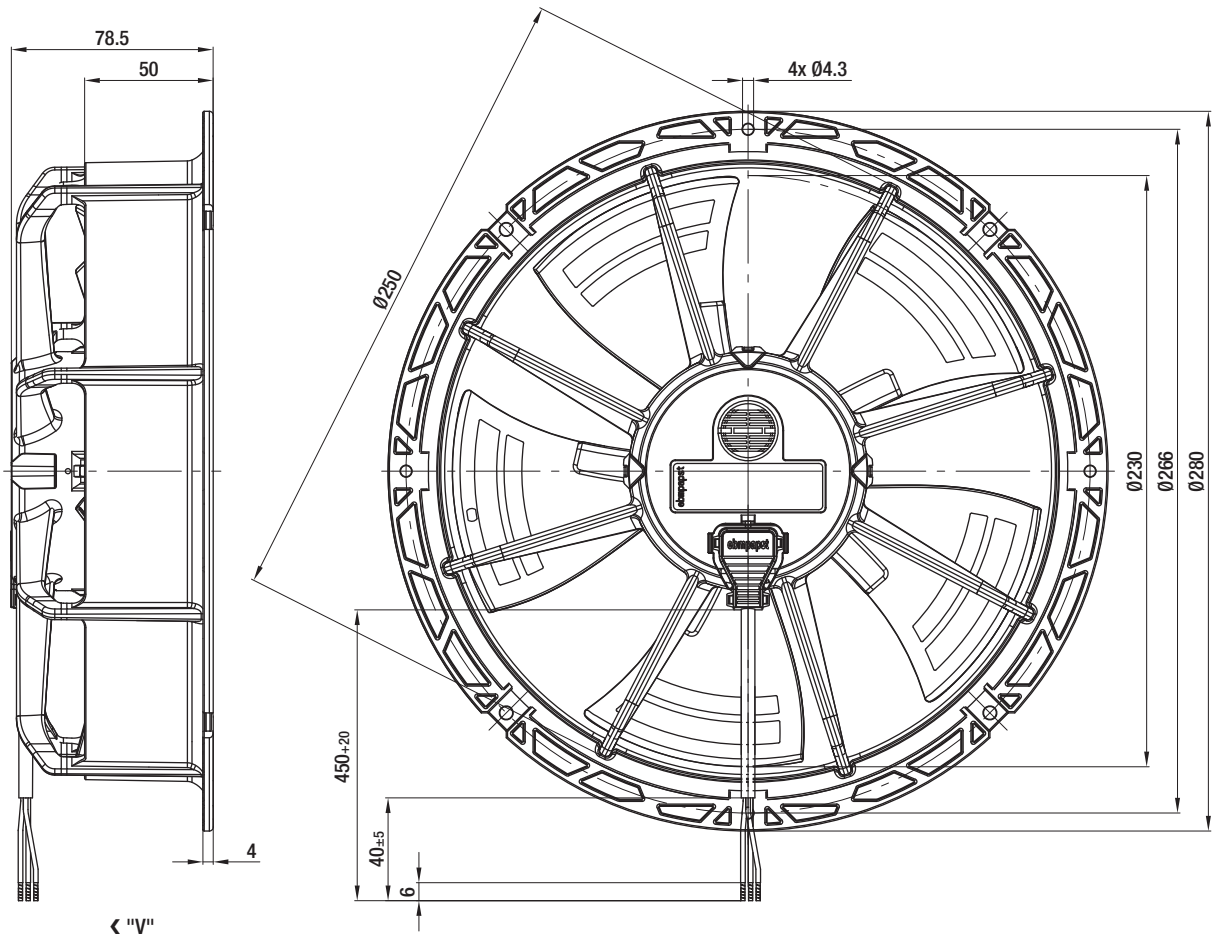
– **Electr. connection:**





‹ "V"

Connection lead
p. 20

Energy-saving axial fans

Ø 250

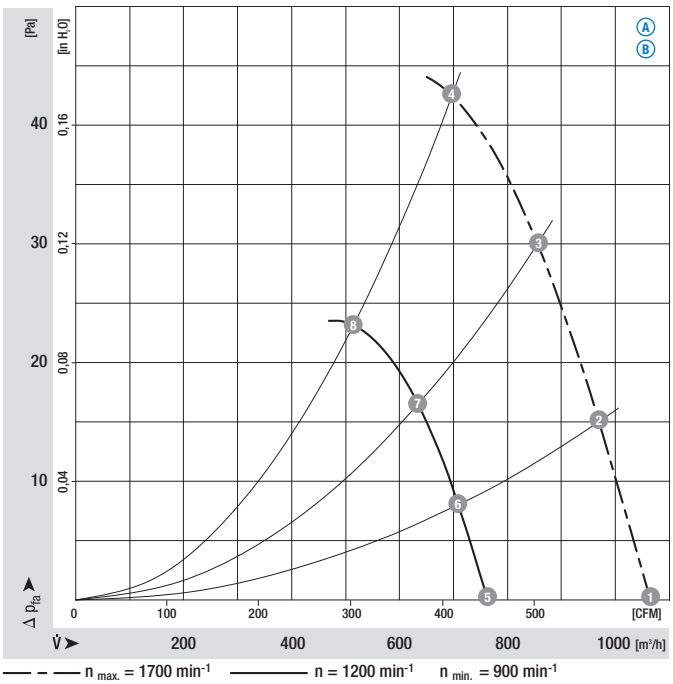
- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

Nominal data		Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**Pa**	**°C**	**kg**
W1G250-BB21 -01	M1G 055-BI	Ⓐ	115	50/60	1700	32	0,47	42	-30..+50	1,55
W1G250-BB17 -01	M1G 055-BI	Ⓑ	230	50/60	1700	32	0,24	42	-30..+50	1,55

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves

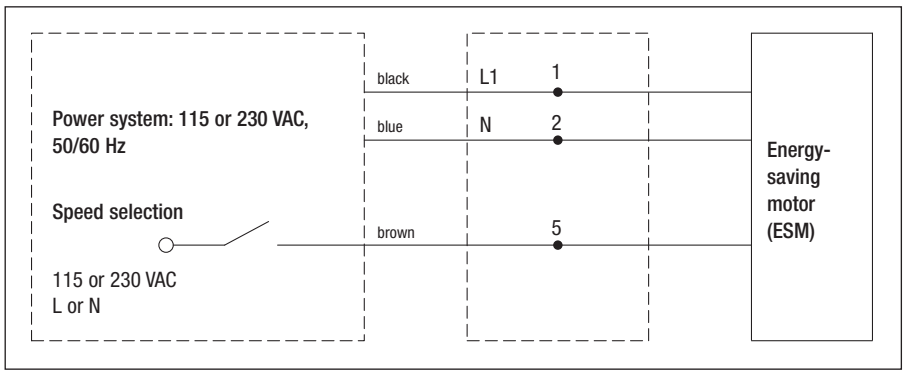


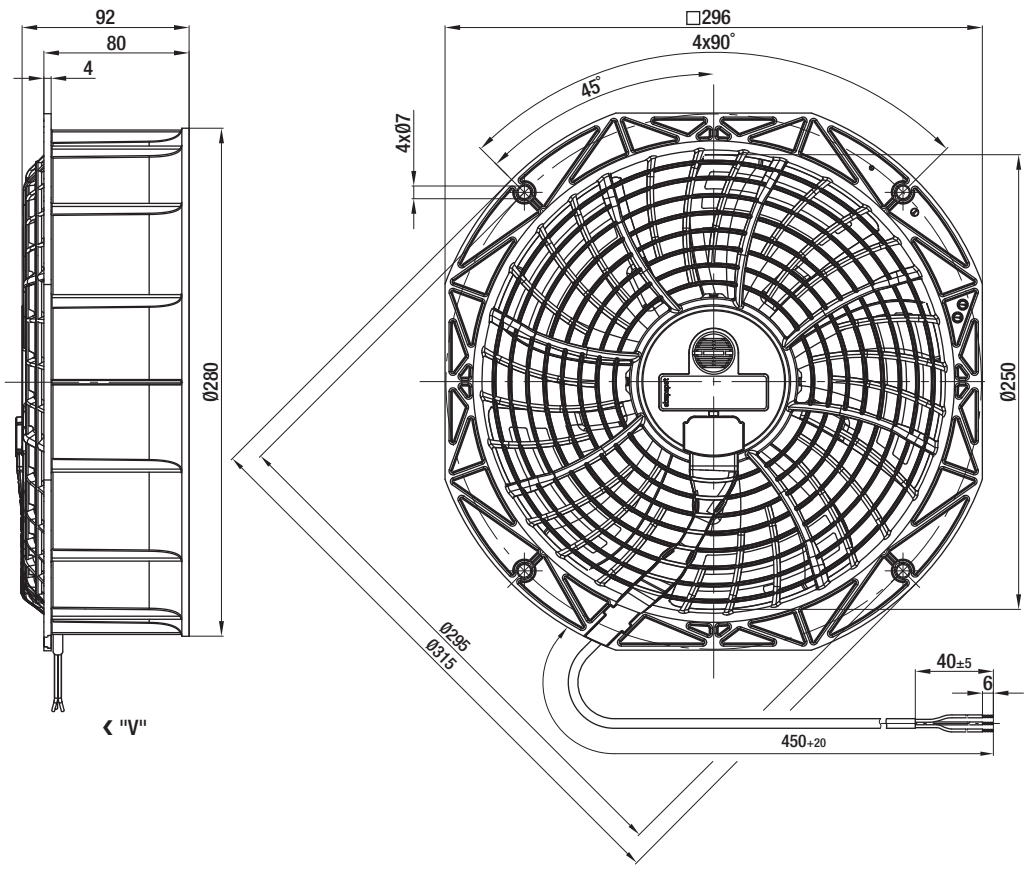
—— – —— $n_{max.}$ = 1700 min^{-1} ——— n = 1200 min^{-1} $n_{min.}$ = 900 min^{-1}

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	1700	30	0,44	55
Ⓐ 2	1700	31	0,45	56
Ⓐ 3	1700	32	0,47	56
Ⓐ 4	1700	32	0,47	57
Ⓐ 5	1200	14	0,22	46
Ⓐ 6	1200	15	0,24	46
Ⓐ 7	1200	16	0,25	47
Ⓐ 8	1200	17	0,26	48
Ⓑ 1	1700	30	0,24	55
Ⓑ 2	1700	31	0,24	56
Ⓑ 3	1700	32	0,24	56
Ⓑ 4	1700	32	0,24	57
Ⓑ 5	1200	14	0,12	46
Ⓑ 6	1200	15	0,13	46
Ⓑ 7	1200	16	0,14	47
Ⓑ 8	1200	17	0,14	48

ebmpapst

– **Electr. connection:**





Connection lead
p. 20

Energy-saving axial fans

Ø 300

- **Material:** Wall ring: Plastic PP
  Blade: Plastic PA
- **Number of blades:** 5
- **Direction of air flow:** "V", exhaust over struts
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

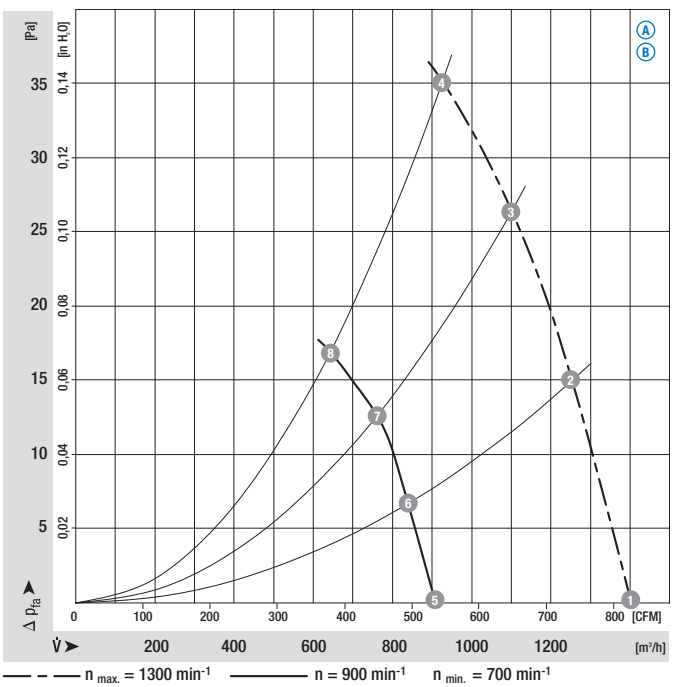
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed (1) rpm	Max. Power input (1) W	Max. Current draw (1) A	Max. operative range Pa	Perm. amb. temp. °C	Mass kg
W1G300-BB23 -01	M1G055-BI	Ⓐ	115	50/60	1300	35	0,50	35	-30..+50	1,75
W1G300-BB19 -01	M1G055-BI	Ⓑ	230	50/60	1300	35	0,27	35	-30..+50	1,75

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



n max. = 1300 min⁻¹ — n = 900 min⁻¹ — n min. = 700 min⁻¹

		n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ	1	1300	28	0,41	52
Ⓐ	2	1300	31	0,46	52
Ⓐ	3	1300	32	0,47	51
Ⓐ	4	1300	35	0,50	52
Ⓐ	5	900	12	0,24	43
Ⓐ	6	900	14	0,26	42
Ⓐ	7	900	15	0,28	42
Ⓐ	8	900	16	0,30	43
Ⓑ	1	1300	32	0,25	52
Ⓑ	2	1300	34	0,27	52
Ⓑ	3	1300	34	0,27	51
Ⓑ	4	1300	35	0,27	52
Ⓑ	5	900	13	0,12	43
Ⓑ	6	900	14	0,13	42
Ⓑ	7	900	15	0,14	42
Ⓑ	8	900	16	0,15	43

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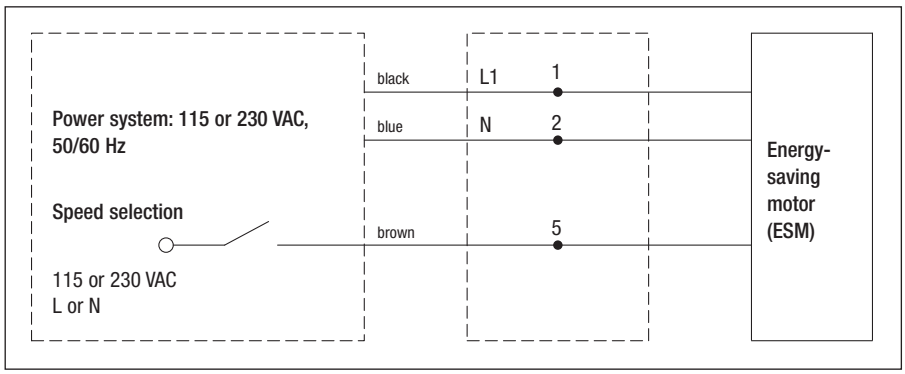
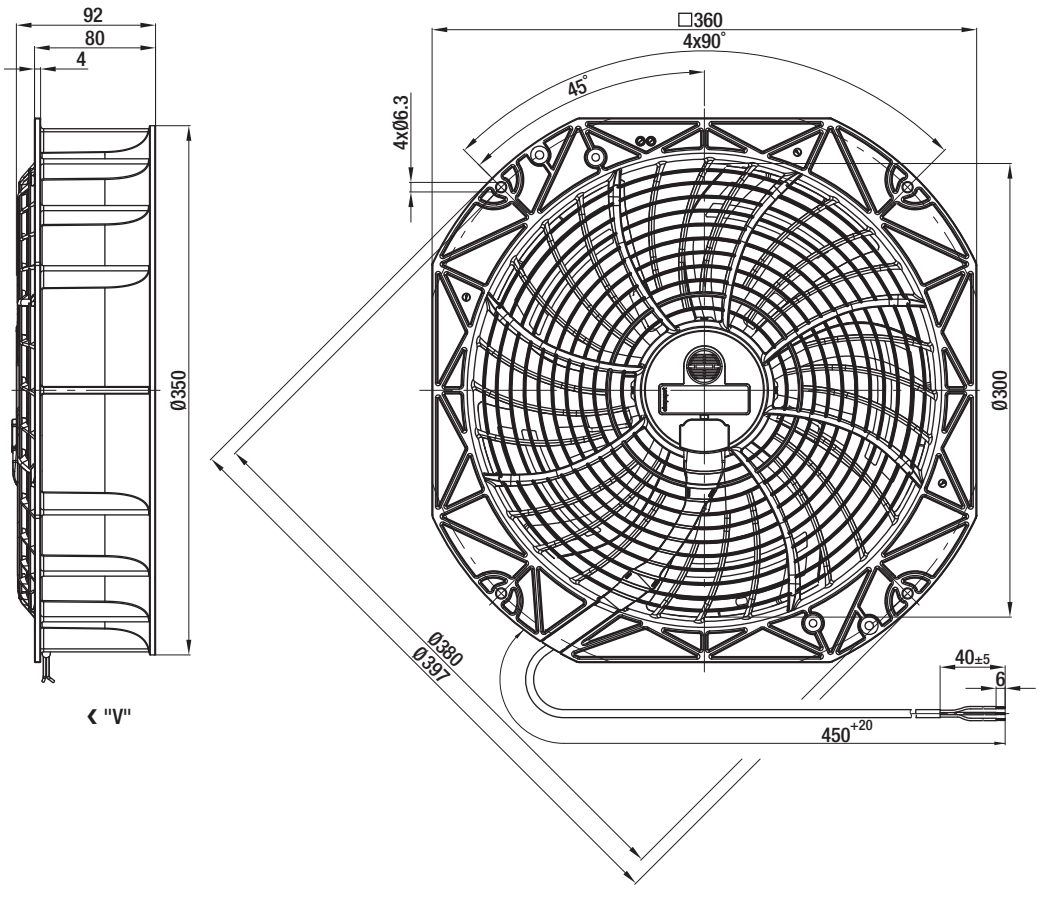
– **Electr. connection:**

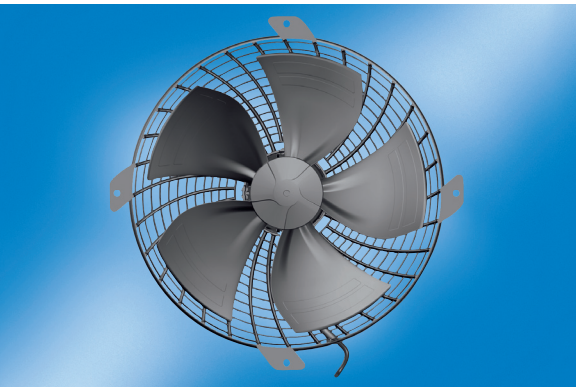




Connection lead
p. 20

Energy-saving axial fans

Ø 300



- **Material:** Blade: Plastic PA
  Guard grille: Plastic PP
- **Number of blades:** 5
- **Direction of air flow:** "A", intake over guard grille
- **Direction of rotation:** Counter-clockwise seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Via electronics and TOP
- **Electrical connection:** Line cord with plug
- **Protection class:** II
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA is applied for
- **Speed:** Using the programming unit, 2 speeds between n_{min} and n_{max} can be programmed.

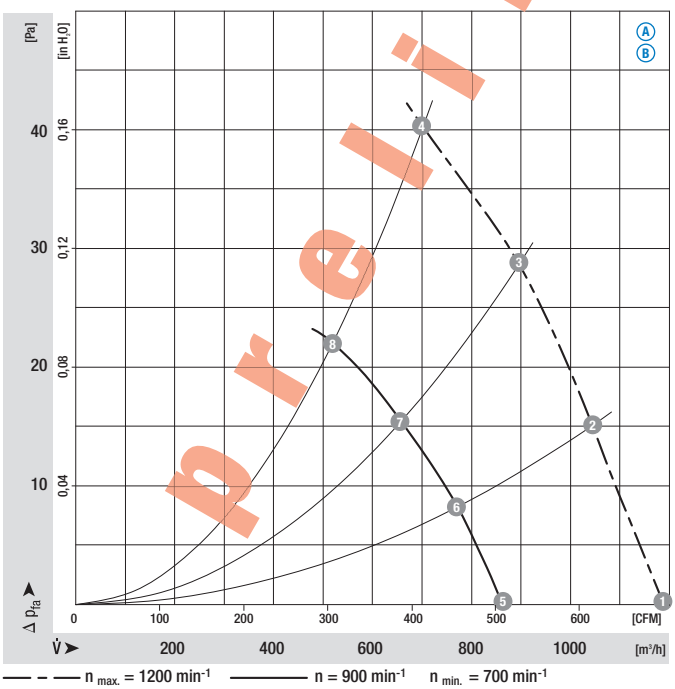
Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Speed (1)	Max. Power input (1)	Max. Current draw (1)	Max. operative range	Perm. amb. temp.	Mass
			VAC	Hz	rpm	W	A	Pa	°C	kg
S1G 300-CA23 -02	M1G 055-BI	Ⓐ	115	50/60	1200	35	0,56	40	-30..+50	1,4
S1G 300-CA19 -02	M1G 055-BI	Ⓑ	230	50/60	1200	35	0,28	40	-30..+50	1,4

subject to alterations

(1) Nominal data in operating point with maximum load and 115 or 230 VAC

Curves



— – — $n_{max.}$ = 1200 min^{-1} ——— n = 900 min^{-1} $n_{min.}$ = 700 min^{-1}

	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]
Ⓐ 1	1200	24	0,40	54
Ⓐ 2	1200	27	0,44	53
Ⓐ 3	1200	31	0,50	54
Ⓐ 4	1200	35	0,56	54
Ⓐ 5	900	16	0,30	51
Ⓐ 6	900	18	0,34	50
Ⓐ 7	900	19	0,36	49
Ⓐ 8	900	21	0,40	49
Ⓑ 1	1200	24	0,20	54
Ⓑ 2	1200	27	0,22	53
Ⓑ 3	1200	31	0,25	54
Ⓑ 4	1200	35	0,28	54
Ⓑ 5	900	16	0,15	51
Ⓑ 6	900	18	0,17	50
Ⓑ 7	900	19	0,18	49
Ⓑ 8	900	21	0,20	49

preliminary data

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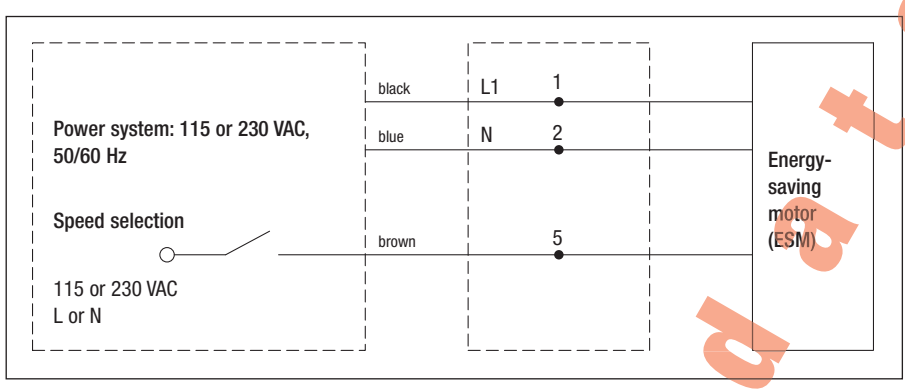
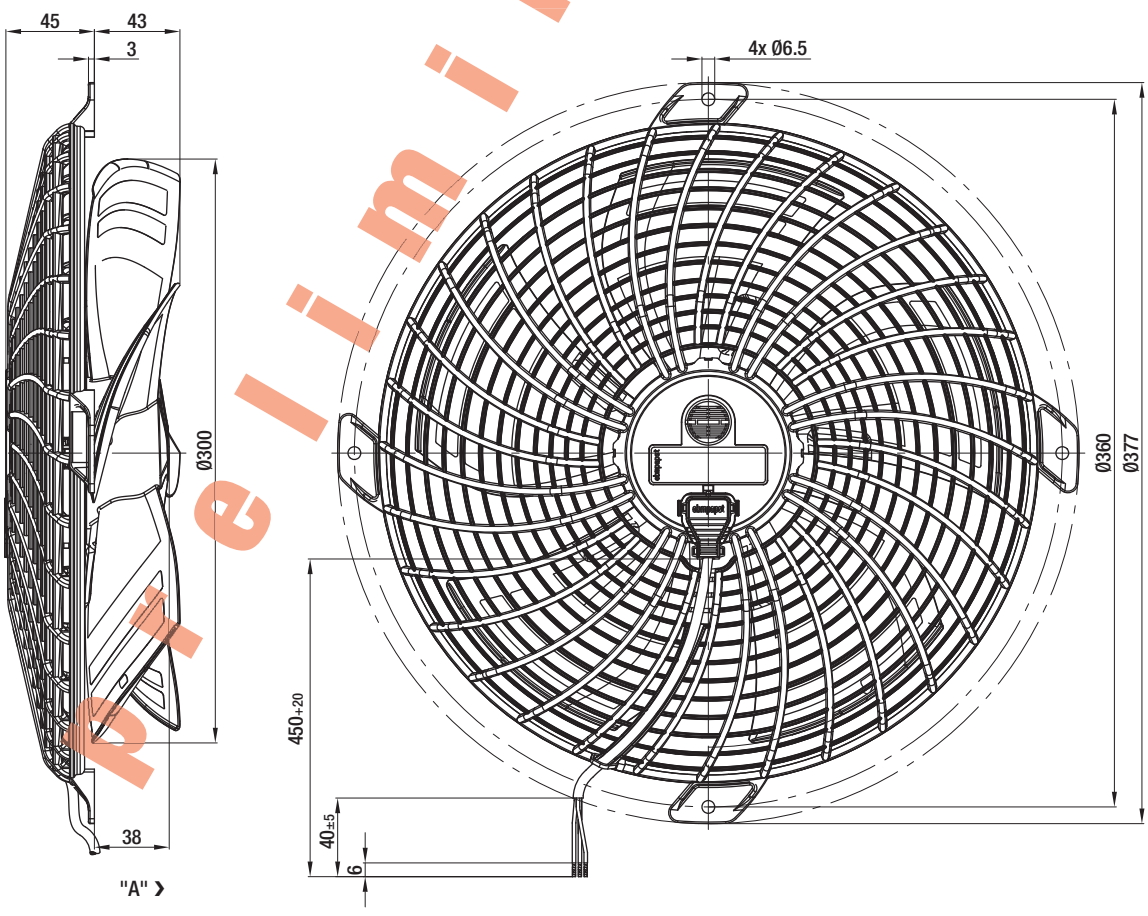
– **Electr. connection:**

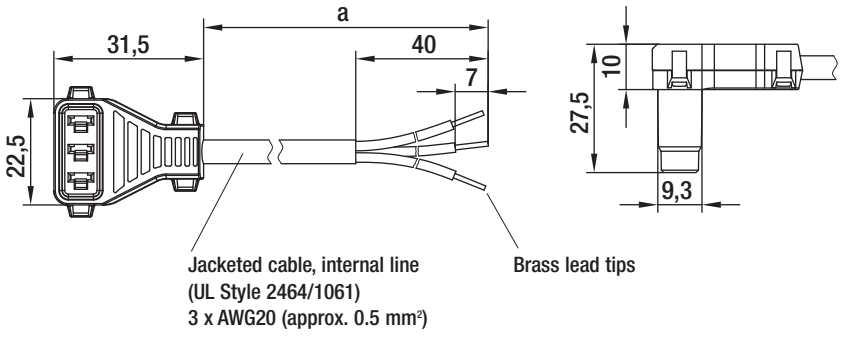


preliminary data



Connection lead
p. 20

Connection leads



– **Design:** Cable conforms to UL standards, sealed plug

Connection lines for energy-saving motors (ESM)

Part no.	a
10637-4-1040	450
10640-4-1040	600
10638-4-1040	1500
10639-4-1040	2000

subject to alterations

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compact fan agent
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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
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- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

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- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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