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Коммандитное товарищество · Юридический адрес Mulfingen

Районный суд Stuttgart · HRA 590344

Совладелец Elektrobau Mulfingen GmbH · Юридический адрес Mulfingen

Районный суд Stuttgart · HRB 590142

Номинальные параметры

Тип	A3G800-AS26-03	
Двигатель	M3G150-FF	
Фаза		3~
Номинальное напряжение	VAC	400
Ном. диапазон напряжения	VAC	380 .. 480
Частота	Hz	50/60
Метод опред. данных		мн
Скорость вращения	min ⁻¹	1000
Входная мощность	W	2200
Потребляемый ток	A	3,4
Макс. противодавление	Pa	200
Мин. темп. окр. среды	°C	-40
Макс. темп. окр. среды	°C	60

мн = Макс. нагрузка · мк = Макс. КПД · сн = Свободное нагнетание · тк = Требование клиента · ук = Установка клиента
Мы сохраняем за собой право на внесение изменений

Данные согласно Постановлению ЕС 327/2011 по экологическому проектированию продукции, связанной с
энергопотреблением (EN 17166)

		факт. знач.	норма 2015
01 Общий КПД η_{es}	%	44,4	35,7
02 Категория установки		A	
03 Категория эффективности		Статически	
04 класс эффективности N		48,7	40
05 Регулирование частоты вращения		Да	

Определение оптимально эффективных данных.

Определение данных согласно директиве ErP происходит с задействованием комбинации «двигатель-рабочее колесо» в стандартной системе измерения.

09 Входная мощность P_{ed}	kW	2,13
09 Расход воздуха q_v	m³/h	17185
09 Увелич. давления p_{fs}	Pa	187
10 Скорость вращения n	min ⁻¹	1000
11 Конкретное соотношение*		1,00

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

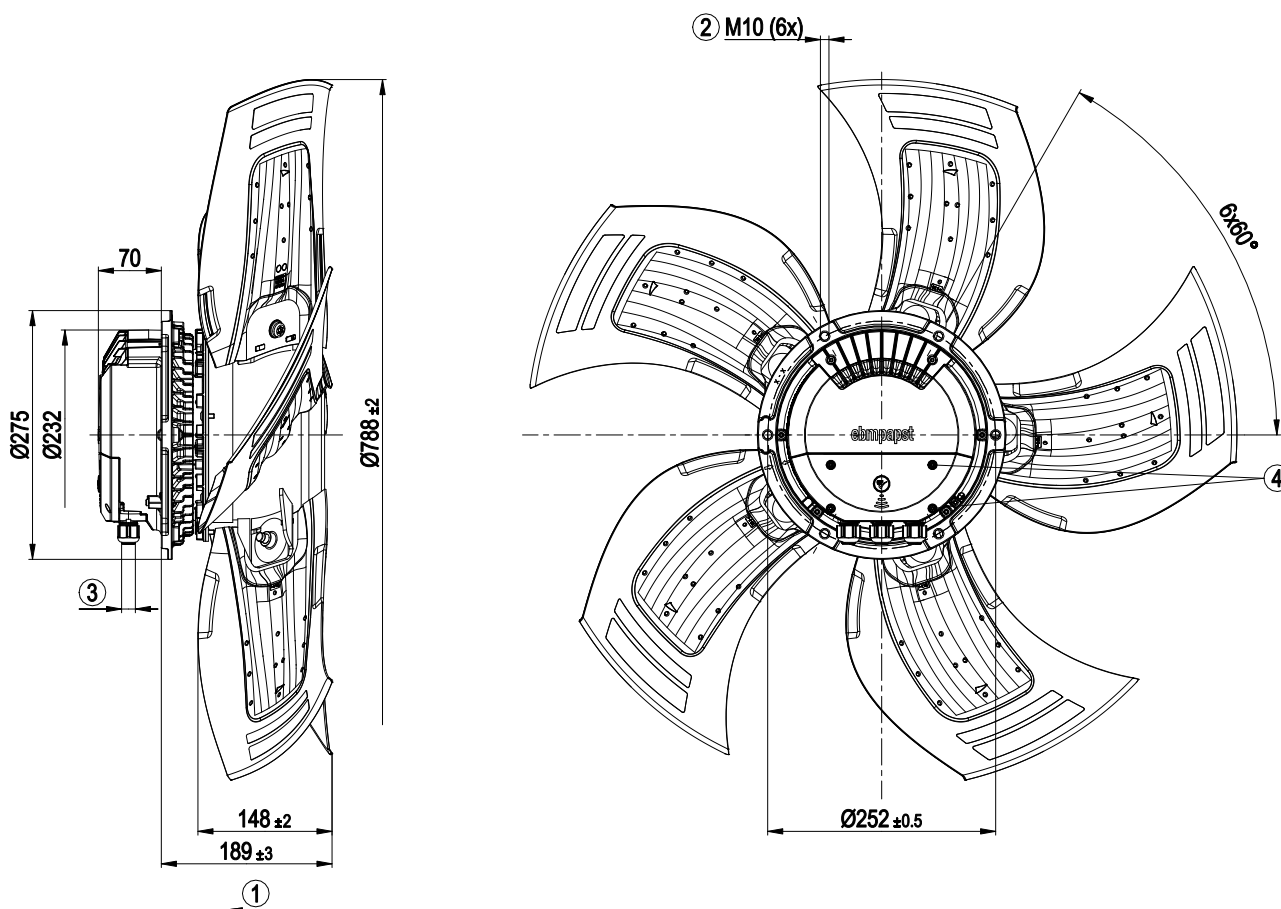
LU-205697

Техническое описание

Вес	20,7 kg
Типоразмер	800 mm
Типоразмер двигателя	150
Покрытие ротора	С лакокрасочным покрытием черного цвета
Материал корпуса блока электроники	Литой под давлением алюминий, покрытый серым лаком
Материал лопастей	Вкладыш из алюминиевой пластины, с полимерным покрытием PP
Количество лопастей	5
Угол атаки лопасти	0°
Направление потока воздуха	V
Направление вращения	Правое, если смотреть на ротор
Вид защиты	IP55
Класс изоляции	«F»
Класс защиты от влаги (F) / класс защиты окружающей среды (H)	H2
Ссылка на температура окр. среды	Допускается разовый пуск при температуре от -40 до -25 °C. В случае длительной работы при температуре окружающей среды ниже -25 °C (например, применение в условиях холода) использовать вентиляторы в исполнении со специальными подшипниками для низких температур.
Максимально допустимая темп. окружающей среды электродвигателя (трансп./хранение)	+80 °C
Минимально допустимая темп. окружающей среды электродвигателя (трансп./хранение)	-40 °C
Положение при монтаже	Горизонтальное расположение вала или ротор вниз; ротор вверх — по запросу
Отверстия для отвода конденсата	Со стороны ротора
Режим работы	S1
Опора двигателя	Шарикоподшипники

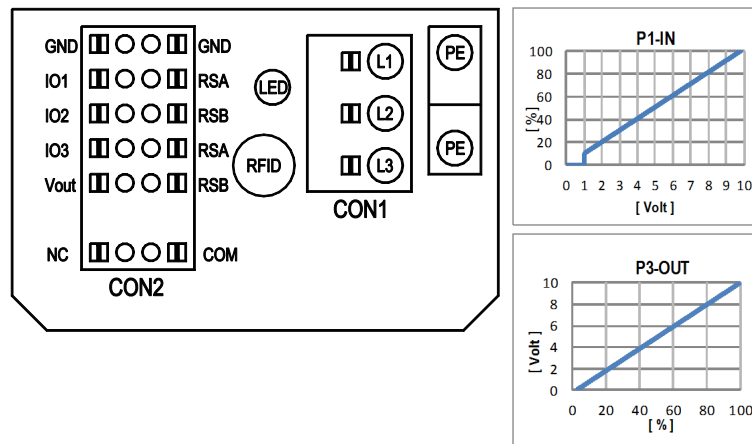
Технические характеристики	– Рабочее сигнальное сообщение через светодиод - Внешний вход 15–50 В пост. тока (параметрирование) – Сигнальное реле - Встроенный ПИ-регулятор - Конфигурируемые входы/выходы (I/O) - MODBUS V6.0 – Ограничение тока э/двигателя - RFID — совместимый с ISO 15693 – RS485 MODBUS-RTU – Плавный пуск - Выход напряжения 3,3–24 В пост. тока, P_{max} = 800 мВт - Интерфейс управления вентилятором, с гальванической развязкой от сети питания – Защита от перегрева электроники/двигателя – Распознавание пониженного напряжения/отказа фазы
EMC помехоустойчивость	Согл. EN 61000-6-2 (промышленная сфера)
EMC излучение помех	Согласно стандарту EN 61000-6-3 (Бытовая техника), за исключением стандарта EN 61000-3-2 для приборов для профессионального использования с общей номинальной мощностью свыше 1 кВт
Контактный ток по IEC 60990 (измерительная схема рис. 4, TN-система)	<= 3,5 mA
Электрическое подключение	Клеммная коробка
Защита двигателя	Защита от смены полярности и защита от блокировки
Класс защиты двигателя	I (если защитный провод подключен стороной заказчика)
Соответствие продукта стандартам	EN 61800-5-1; CE
Допуск	UL 1004-7 + 60730-1; EAC; CSA C22.2 № 77 + CAN/CSA-E60730-1

Чертёж изделия



1	Направление потока воздуха «V»
2	Глубина ввинчивания макс. 20 мм
3	Диаметр кабеля: мин. 4 мм, макс. 10 мм; момент затяжки: $4 \pm 0,6$ Нм
4	Момент затяжки: $1,5 \pm 0,2$ Нм

Схема подключения



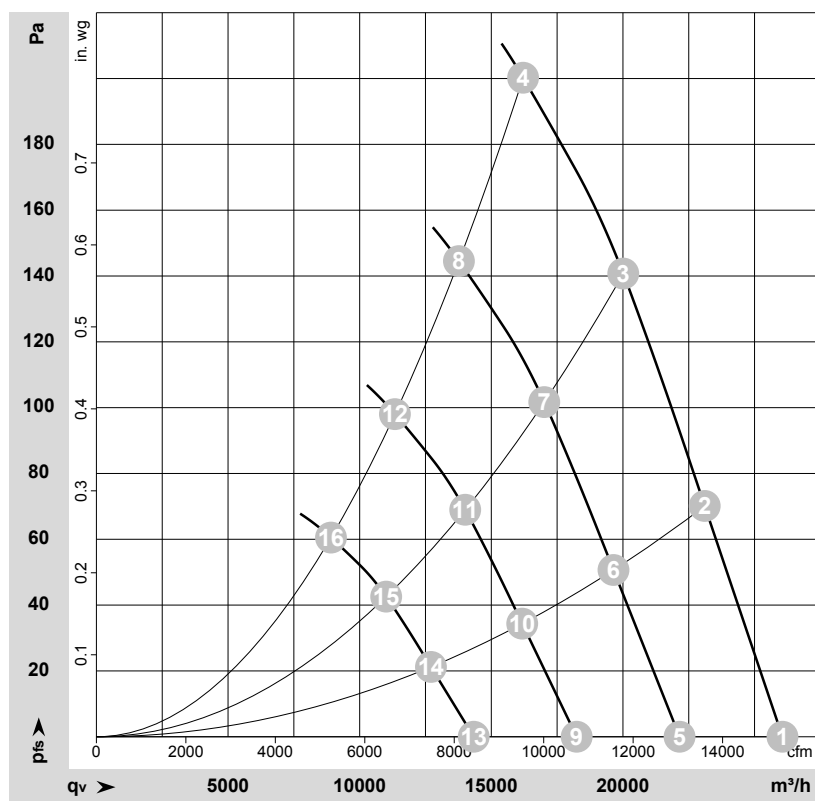
№	Подкл.	Маркирование	Функция / назначение
	CON1	L1, L2, L3	Напряжение питания, фаза, диапазон напряжений — см. заводскую табличку
	PE	PE	Защитный провод
	CON2	RSA	Сопряжение RS485 для MODBUS, RSA; БСНН
	CON2	RSB	Сопряжение RS485 для MODBUS, RSB; БСНН
	CON2	GND	Заземление для интерфейса управления, БСНН
	CON2	IO1	Параметрируемая функция (см. таблицу «Дополнительные функции интерфейса») Заводские настройки: цифровой вход — high aktiv, функция: вход сигнала Disable, БСНН - inaktiv: открытый контакт или приложенное напряжение < 1,5 В пост. тока - aktiv: приложенное напряжение 3,5–50 В пост. тока функция сброса: срабатывание сброса ошибки при изменении состояния с enabled на disabled
	CON2	IO2	Параметрируемая функция (см. таблицу «Дополнительные функции интерфейса») Заводские настройки: аналоговый вход 0–10 В / ШИМ, Ri = 100 кОм, функция: Заданное значение Параметрируемая характеристика (см. входную характеристику P1-IN), БСНН
	CON2	IO3	Параметрируемая функция (см. таблицу «Дополнительные функции интерфейса») заводские настройки: аналоговый выход 0–10 В, макс. 5 мА, функция: Коэффициент заполнения характеристики вентиллятора параметрируемая характеристика (см. выходная характеристика P3-OUT), БСНН
	CON2	Vout	Выход напряжения 3,3–24 В пост. тока +/- 5 %, Pmax = 800 мВт, параметрируемое напряжение заводская настройка: 10 В пост. тока постоянная защита от коротких замыканий, питание для внешних устройств, БСНН альтернативно: вход 15–50 В пост. тока для параметризации через MODBUS без сетевого напряжения
	CON2	COM	Реле состояния, плавающий контакт состояния с нулевым потенциалом, общее подключение, нагрузка на контакты 250 В перем. тока / 2 А (AC1), мин. 10 мА, усиленная изоляция относительно сетевого интерфейса и интерфейса управления
	CON2	NC	Реле состояния, плавающий контакт состояния с нулевым потенциалом; размыкающий контакт при ошибке
		LED	Зеленый = статус Хорошо, готов к работе оранжевый = статус Внимание красный = статус Ошибка
		P1-IN	Входная характеристика

№	Подкл.	Маркирование	Функция / назначение
		P3-OUT	Выходная характеристика

Разводка клемм/контактов

configurable option	for further information and additional functions see EC Control Software, Fan-Set-App. or MODBUS Parameter Specification V6.0	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	Din1 (active high): digital input	Din1 0-10VPPWM: analog input	Tach out (open collector output)	Diagnostics out (open collector output)	Din2 (active high): digital input	Din2 0-10VPPWM: analog input	Ain2 4-20mA: analog input	Din3 (active high): digital input	Din3 (active low): digital input	PWM in3: digital input	Aout3 0-10V: analog output	Tacho out (pulses), analog output	Diagnostics out (pulses)	RS485 bus connection,	voltage output	alternatively: input auxiliary power supply for parameter-ization via RS485 MODBUS RTU without line voltage	D16E [...] voltage parameterizable 3...24VDC +/- 5,5%, Pmax=800mW, short-circuit-proof, supply for external devices, SELV	D16E [...] voltage parameterizable 3...24VDC +/- 5,5%, 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Характеристики: производительность по воздуху 50 Hz


 $\rho = 1,15 \text{ kg/m}^3 \pm 2 \%$

Измерение: LU-205697-1

Замеры производительности соответствуют ISO 5801 категория А. Для детального уточнения способа замеров, Вам необходимо обратиться к специалистам ebm-papst. Уровень звукового давления со стороны всасывания: LwA по ISO 13347 / LpA с расстоянием 1м от оси вентилятора. Данные действительны только при указанных условиях измерения и могут варьироваться в зависимости от условий установки. При отклонении от стандартной конфигурации, необходимо проверить все значения в собранной установке.

Данные измерений

	Подкл.	U	f	n	P _{ед}	I	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	3~	400	50	1000	1539	2,46	26060	0	15340	0,00
2	3~	400	50	1000	1785	2,81	23105	70	13600	0,28
3	3~	400	50	1000	2004	3,13	20015	140	11780	0,56
4	3~	400	50	1000	2200	3,40	16210	200	9540	0,80
5	3~	400	50	850	945	1,51	22150	0	13040	0,00
6	3~	400	50	850	1096	1,73	19640	51	11560	0,20
7	3~	400	50	850	1231	1,92	17010	102	10010	0,41
8	3~	400	50	850	1332	2,08	13770	145	8105	0,58
9	3~	400	50	700	528	0,84	18240	0	10735	0,00
10	3~	400	50	700	612	0,96	16175	34	9520	0,14
11	3~	400	50	700	687	1,07	14010	69	8245	0,28
12	3~	400	50	700	744	1,16	11340	98	6675	0,39
13	3~	400	50	550	256	0,41	14335	0	8435	0,00
14	3~	400	50	550	297	0,47	12710	21	7480	0,08
15	3~	400	50	550	333	0,52	11005	43	6480	0,17
16	3~	400	50	550	361	0,56	8910	61	5245	0,24

Подкл. = Подключение · U = Напряжение питания · f = Частота · n = Скорость вращения · P_{ед} = Входная мощность · I = Потребляемый ток · q_v = Расход воздуха
P_{fs} = Увелич. давления