

ebm-papst Mulfingen GmbH & Co. KGaA & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

info1@de.ebmpapst.com

www.ebmpapst.com

Kommanditgesellschaft · Sitz Mulfingen
Amtsgericht Stuttgart · HRA 590344

Komplementär Elektrobau Mulfingen GmbH · Sitz Mulfingen
Amtsgericht Stuttgart · HRB 590142

Nennenden

Typ	R3G500-FA28-03	
Motor	M3G150-FF	
Phase		3~
Nennspannung	VAC	400
Nennspannungsbereich	VAC	380 .. 480
Frequenz	Hz	50/60
Art der Datenfestlegung		mb
Status		vorläufig
Drehzahl	min ⁻¹	1900
Leistungsaufnahme	W	2850
Stromaufnahme	A	4,4
Min. Umgebungstemperatur	°C	-40
Max. Umgebungstemperatur	°C	40

mb = Max. Belastung · mw = Max. Wirkungsgrad · fb = Freiblasend · kv = Kundenvorgabe · kg = Kundengerät
Änderungen vorbehalten

Daten gemäß Ökodesign-Verordnung EU 327/2011 (prEN 17166)

		Ist	Vorgabe 2015			
01 Gesamtwirkungsgrad η_{es}	%	71,1	56,3	09 Leistungsaufnahme P_{ed}	kW	2,84
02 Installationskategorie		A		09 Volumenstrom q_v	m³/h	8715
03 Effizienzkategorie		Statisch		09 Druckerhöhung p_{fs}	Pa	794
04 Effizienzklasse N		76,8	62	10 Drehzahl n	min ⁻¹	1905
05 Drehzahlregelung		Ja		11 Spezifisches Verhältnis*		1,01

Datenfestlegung im optimalen Wirkungsgrad.

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

LU-206666

Die angezeigten Effizienzwerte zur Erlangung der Konformität mit der Ökodesign-Verordnung EU 327/2011 wurde mit definierten Luftführungskomponenten (z.B. Einströmdüsen) erreicht.
Die Abmessungen sind bei ebm-papst zu erfragen. Werden einbaueitig andere Luftführungsgeometrien verwendet verliert die ebm-papst Bewertung ihre Gültigkeit/muss die Konformität erneut bestätigt werden.
Das Produkt fällt nicht in den Geltungsbereich der Verordnung (EU) 2019/1781 aufgrund der in Artikel 2 Absatz 2a) genannten Ausnahme (vollständig in ein Produkt integrierte Motoren).

Technische Beschreibung

Masse	20,4 kg
Baugröße	500 mm
Motor-Baugröße	150
Oberfläche Rotor	Schwarz lackiert
Material Elektronikgehäuse	Aluminium Druckguss
Material Laufrad	Kunststoff PP
Schaufelanzahl	6
Drehrichtung	Rechts auf den Rotor gesehen
Schutzart	IP55
Isolationsklasse	"F"
Feuchte- (F) / Umweltschutzklasse (H)	H1
Hinweis Umgebungstemperatur	Ein gelegentlicher Anlauf zwischen -40 °C und -25 °C ist zulässig. Bei dauerhaftem Betrieb mit negativen Umgebungstemperaturen unter -25 °C (bspw. Kälteanwendungen) muss eine Ventilatorausführung mit speziellen Kälteagern eingesetzt werden.
Zul. Umgebungstemp. Motor max. (Transport/Lagerung)	+80 °C
Zul. Umgebungstemp. Motor min. (Transport/Lagerung)	-40 °C
Einbaulage	Welle horizontal oder Rotor unten; Rotor oben auf Anfrage
Kondenswasser-Bohrungen	Rotorseitig
Betriebsart	S1
Lagerung Motor	Kugellager
Technische Ausstattung	- Betriebs- und Störmeldung über LED - Externer 15-50 VDC-Eingang (Parametrierung) - Fehlermelderelais - Integrierter PI-Regler - Konfigurierbare Ein- / Ausgänge (I/O) - MODBUS V6.3 - Motorstrombegrenzung - RS485 MODBUS-RTU - Sanftanlauf - Spannungsausgang 3,3-24 VDC, Pmax = 800 mW - Steuerschnittstelle mit sicher vom Netz getrenntem SELV Potential - Übertemperaturschutz Elektronik / Motor - Unterspannungs- / Phasenausfallerkennung
Power Factor Correction (PFC)	Passiv (durch niederkapazitiven Zwischenkreis)
EMV Störfestigkeit	Gemäß EN 61000-6-2 (Industriebereich)
EMV Störaussendung	Gemäß EN 61000-6-3 (Haushaltsbereich), ausgenommen EN 61000-3-2 für professionell genutzte Geräte mit einer Gesamtbemessungsleistung, die größer als ein 1 kW ist
Berührungsstrom nach IEC 60990 (Messschaltung Bild 4, TN System)	<= 3,5 mA
Elektrischer Anschluss	Klemmkasten
Motorschutz	Verpol- und Blockierschutz
Schutzklasse-Anordnung	I; Wenn ein Schutzleiter angeschlossen ist. Die Einbaueinheit hat mehrere lokale Schutzklasse-Anordnungen. Die endgültige Schutzklasse ergibt sich nach bestimmungsgemäßem Einbau.
Normkonformität	EN 61800-5-1; CE

R3G500-FA28-03

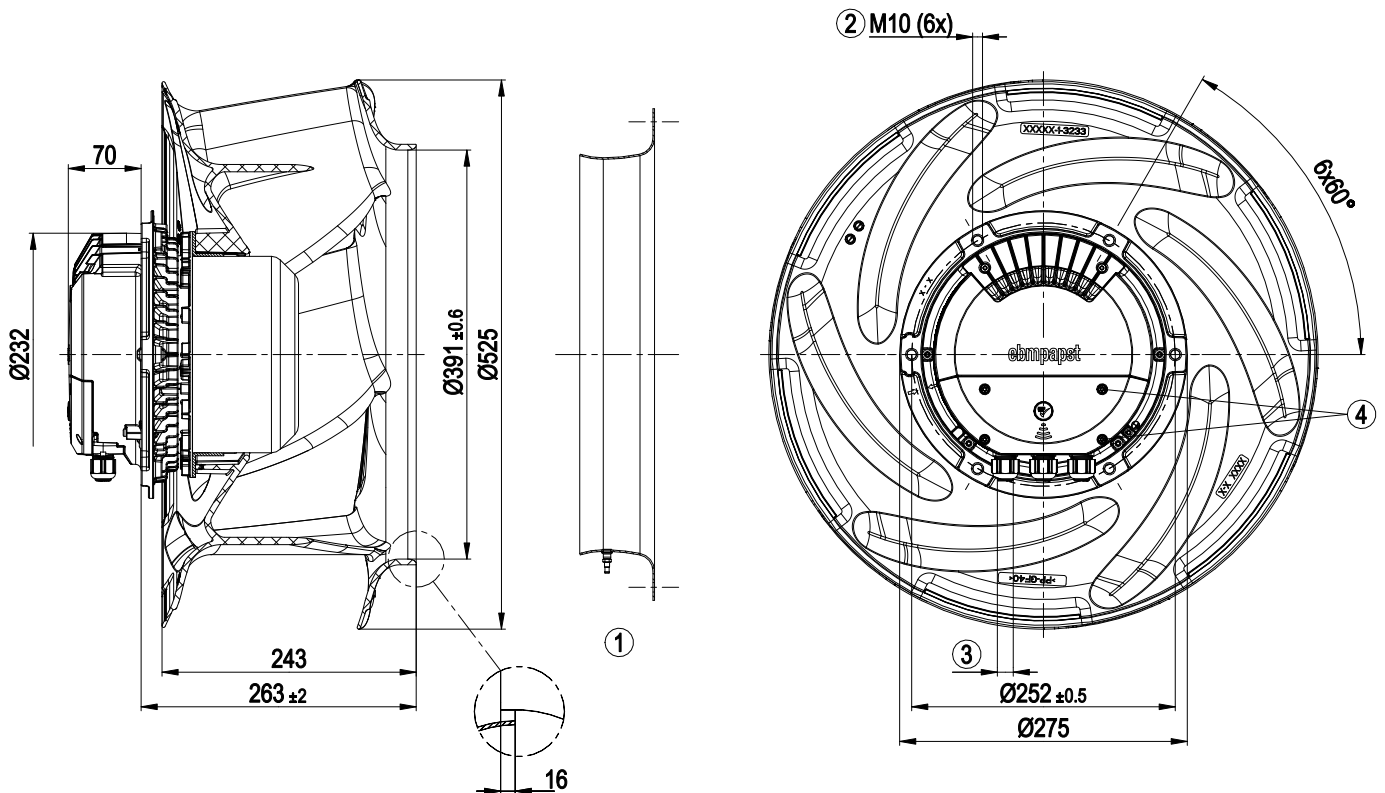
EC-Radialventilator - RadiCal®

rückwärts gekrümmt, einseitig saugend

Zulassung

CSA C22.2 Nr.77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

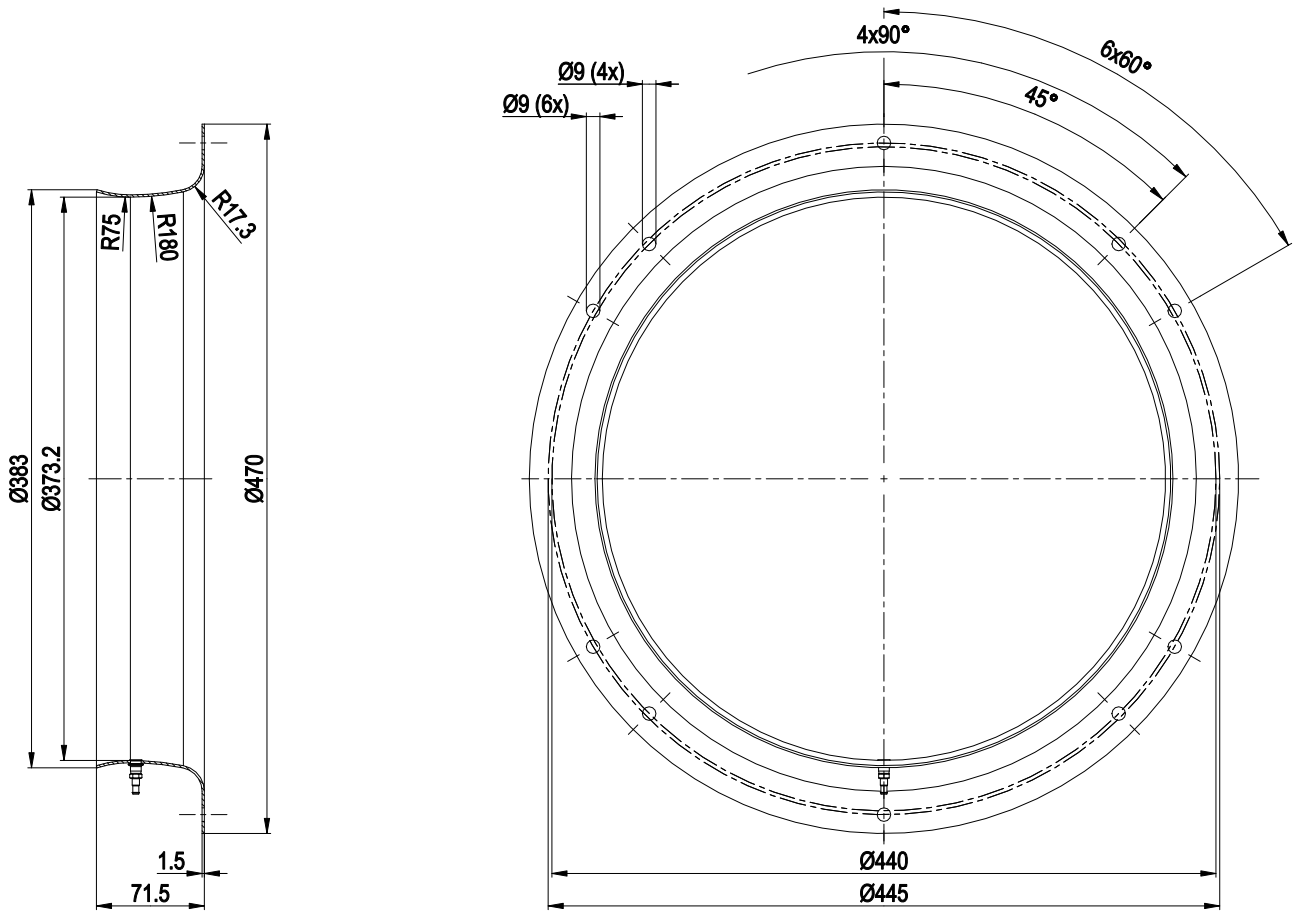
Produktzeichnung



(Das Anzugsmoment ist für PVC-Leitungen ausgelegt. Bei abweichenden Leitungsmaterialien muss das Anzugsmoment ggf. angepasst werden)

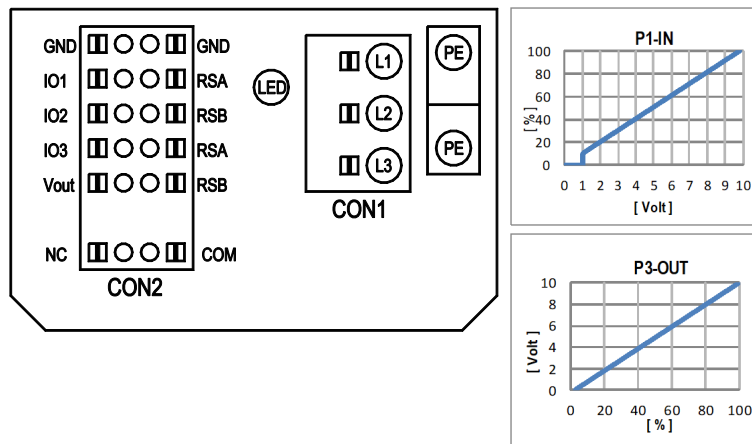
4	Anzugsmoment 1,5±0,2 Nm
1	Zubehörteil: Einströmdüse 50355-2-4013 mit Druckentnahmestutzen (k-Wert: 375) nicht im Lieferumfang enthalten
2	Einschraubtiefe max. 20 mm
3	Kabeldurchmesser min. 4 mm, max. 10 mm, Anzugsmoment 4±0,6 Nm

Zubehörteil



Einströmdüse 50355-2-4013 mit Druckentnahmestutzen (k-Wert: 375)

Anschlussbild

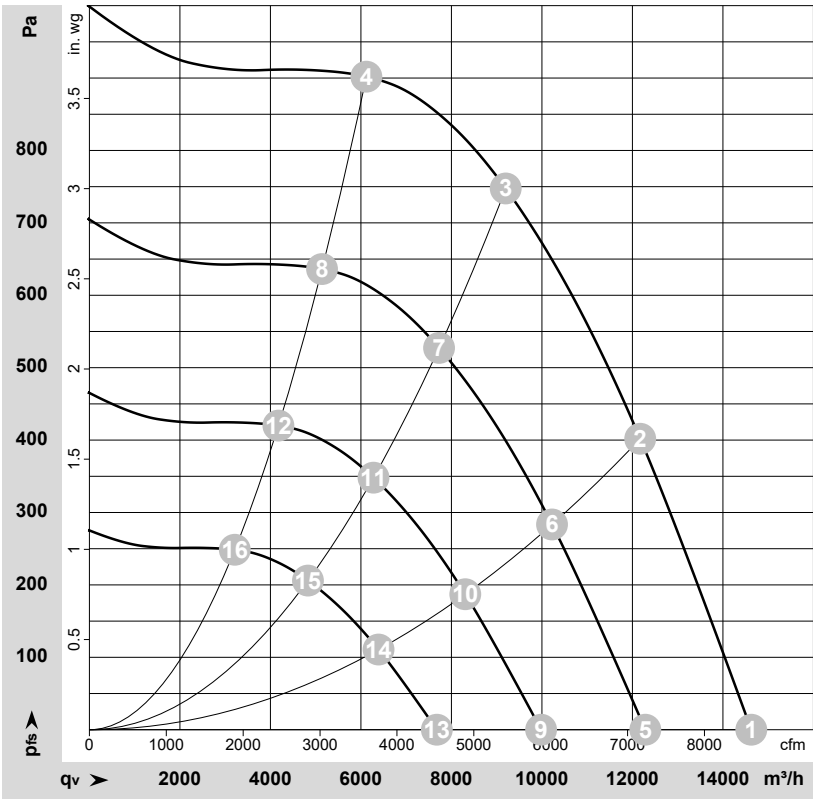


Nr.	Anschl.	Bezeichnung	Funktion / Belegung
	CON1	L1, L2, L3	Versorgungsspannung, Phase, Spannungsbereich siehe Typenschild
	PE	PE	Schutzleiter
	CON2	RSA	RS485-Schnittstelle für MODBUS, RSA; SELV
	CON2	RSB	RS485-Schnittstelle für MODBUS, RSB; SELV
	CON2	GND	Bezugsmasse für Steuerschnittstelle, SELV
	CON2	IO1	Funktion parametrierbar (siehe Tabelle "Optionale Schnittstellenfunktionen") Werkseinstellung: Digitaleingang - high aktiv, Funktion: Disable-Eingang, SELV - inaktiv: Pin offen oder angelegte Spannung < 1,5 VDC - aktiv: angelegte Spannung 3,5-50 VDC Reset-Funktion: Auslösung eines Fehler-Reset beim Zustandswechsel von "enabled" auf "disabled"
	CON2	IO2	Funktion parametrierbar (siehe Tabelle "Optionale Schnittstellenfunktionen") Werkseinstellung: Analogeingang 0-10 V / PWM, Ri=100 kΩ, Funktion: Sollwert Kennlinie parametrierbar (siehe Eingangskennlinie P1-IN), SELV
	CON2	IO3	Funktion parametrierbar (siehe Tabelle "Optionale Schnittstellenfunktionen") Werkseinstellung: Analogausgang 0-10 V, max. 5 mA, Funktion: Aussteuergrad Ventilator Kennlinie parametrierbar (siehe Ausgangskennlinie P3-OUT), SELV
	CON2	Vout	Spannungsausgang 3,3-24 VDC +/- 5 %, Pmax=800 mW, Spannung parametrierbar Werkseinstellung: 10 VDC dauerkurzschlußfest, Versorgung für externe Geräte, SELV alternativ: 15-50 VDC-Eingang für Parametrierung über MODBUS ohne Netzspannung
	CON2	COM	Statusrelais, Potentialfreier Statusmeldekontakt, gemeinsamer Anschluss, Kontaktbelastbarkeit 250 VAC / 2 A (AC1) min. 10 mA, verstärkte Isolation zu Netz- und Steuerschnittstelle
	CON2	NC	Statusrelais, Potentialfreier Statusmeldekontakt, Öffnerkontakt bei Fehler
		LED	grün = Status gut, Betriebsbereit orange = Status Warnung rot = Status Fehler
		P1-IN	Eingangskennlinie
		P3-OUT	Ausgangskennlinie

Klemmen- / Steckerbelegung

configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	OUTPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	OUTPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	INPUT																
								source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]
configurable option		For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3																						

Kennlinien: Luftleistung 50 Hz



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

Messung: LU-206666-1

Luftleistung gemessen nach ISO 5801
Installationskategorie A. Den genauen
Messaufbau erfragen Sie bitte bei ebm-
papst. Saugseitige Geräuschpegel: LwA
nach ISO 13347 / LpA mit 1 m Abstand auf
Ventilatorachse gemessen. Die Angaben
gelten nur unter den angegebenen
Messbedingungen und können sich durch
Einbaubedingungen verändern. Bei
Abweichungen zum Normaufbau sind die
Kennwerte im eingebauten Zustand zu
überprüfen.

Messwerte

	Versch.	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	q _V	p _{fs}	q _V	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	3~	400	50	1900	1648	2,61	82	89	92	14625	0	8610	0,00
2	3~	400	50	1900	2479	3,83	76	83	88	12170	400	7165	1,61
3	3~	400	50	1900	2850	4,40	71	78	85	9200	750	5415	3,01
4	3~	400	50	1900	2627	4,05	75	82	87	6120	900	3600	3,61
5	3~	400	50	1600	976	1,55	77	85	88	12285	0	7230	0,00
6	3~	400	50	1600	1469	2,27	71	78	84	10225	285	6015	1,14
7	3~	400	50	1600	1685	2,59	66	74	81	7725	528	4550	2,12
8	3~	400	50	1600	1557	2,40	71	78	83	5140	638	3025	2,56
9	3~	400	50	1300	524	0,83	72	79	83	9980	0	5875	0,00
10	3~	400	50	1300	788	1,22	66	73	79	8305	188	4890	0,75
11	3~	400	50	1300	904	1,39	61	69	76	6280	349	3695	1,40
12	3~	400	50	1300	835	1,29	65	73	78	4175	421	2460	1,69
13	3~	400	50	1000	238	0,38	65	73	76	7680	0	4520	0,00
14	3~	400	50	1000	359	0,55	60	67	72	6390	111	3760	0,45
15	3~	400	50	1000	411	0,63	54	62	69	4830	206	2840	0,83
16	3~	400	50	1000	380	0,59	59	66	71	3215	249	1890	1,00

Versch. = Verschaltung · U = Versorgungsspannung · f = Frequenz · n = Drehzahl · P_{ed} = Leistungsaufnahme · I = Stromaufnahme · LpA_{in} = Schalldruckpegel saugseitig · LwA_{in} = Schalleistungspegel saugseitig
LwA_{out} = Schalleistungspegel druckseitig · q_V = Volumenstrom · p_{fs} = Druckerhöhung