

KBR 315EC-L VIRT.NOS. VENT.

Artikula nr. 33653

Dokumenta veids: **Produkta karte**
 Dokumenta dati: **2014-04-12**
 Izveidots ar: **Systemair on-line katalogs**

Apraksts

- EC-motors, high level of efficiency
- 100% speed controllable
- Integrated motor protection
- Low noise level
- Max. temp. of continuous transported air 120°C

EC technology is intelligent technology; using integral electronic control which eliminates the slip losses in the motor and ensures that the motor always runs at optimal load and guarantees that the proportion of energy utilized effectively is many times higher and the energy usage considerably lower compared with AC motors. EC fans are notable for their economical use of energy and excellent ease of control. They can be varied in speed to match the airflow demand, and operate at high efficiency levels. For the same air volume, they consume distinctly less energy than AC fan drives. Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part load, the energy used is much lower than with an asynchronous motor of equivalent output. Reduced energy usage guarantees a drop in operating costs. The power electronics are integrated in the motor housing. All models have one potential-free terminal for error message. All motors are suitable to be used for 50/60Hz. The input voltage for single phase units can vary between 200 and 277V and three phase between 380 and 480V. Speed control by a 0-10V signal. Every motor has an output voltage of 10V for an external potentiometer or sensor. The KBR-EC fans have impellers manufactured from galvanized sheet steel with backward-curved blades. The casing is manufactured from double-skinned galvanized sheet steel and is insulated with 50 mm mineral wool. The KBR-EC fans have a swing-out door for easy inspection and service. The direction of the door opening can easily be changed from left to right at site. The fan is isolated from the casing via connectors and anti-vibration dampers are incorporated into the base frame.

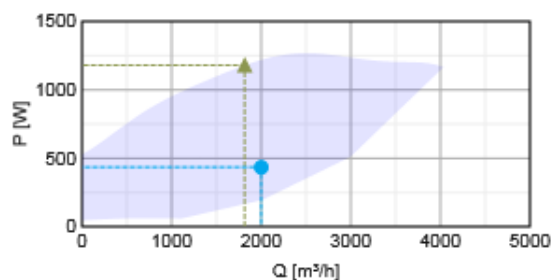
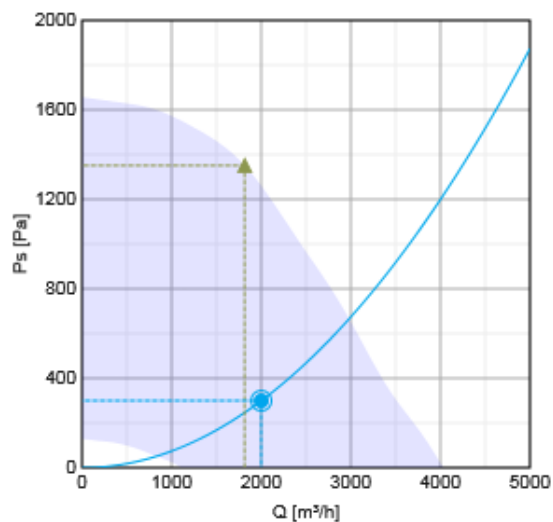


Tehniskie rādītāji

Spriegums	230	V
Frekvence	50/60	Hz
Fāze	1	~
Jauda	1268	W
Strāva	5.53	A
Maks. gaisa plūsma	4032	m3/h
Apgr./min.	3025	Apgr./min.
Maks. gaisa temp.	120	°C
Skaņas spiediena līmenis pie 4 m	38	dB(A)
Skaņas spiediena līmenis pie 10 m	30	dB(A)
Svars	61	kg
Izolācijas klase motoram	F	
Aizsardzības klase motoram	55	IP

Diagrammas

Diagrammas



Hidraulikas dati

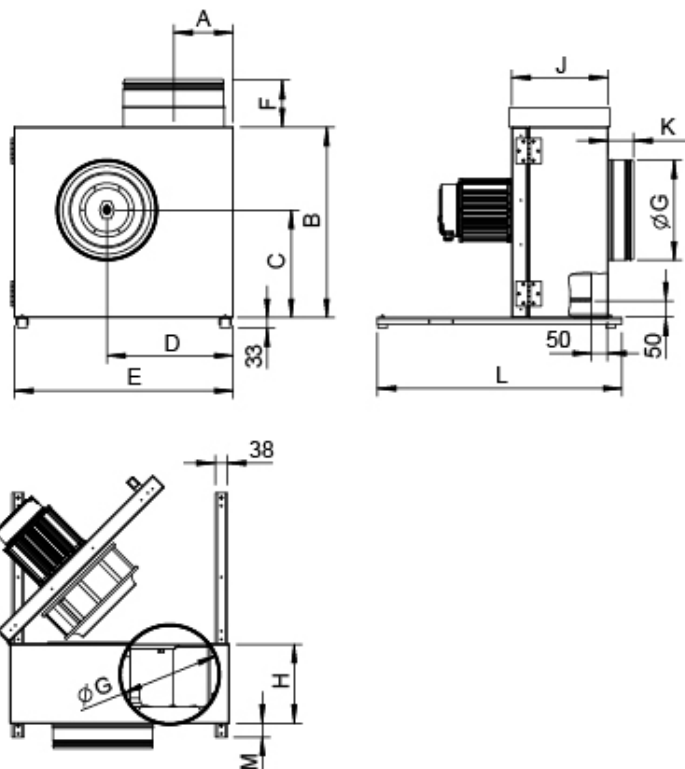
	Pieprasītais punkts		Darba punkts						
	Q [m³/h]	Ps [Pa]	Q [m³/h]	Ps [Pa]	P [W]	n [Apgr./min.]	I [A]	SFP [kW/m³/s]	U [V]
Max. efektivitāte			▲ 1815	▲ 1352	▲ 1179	3020	5.16	2.34	230
Lietotājs	○ 2000	○ 300	● 2000	● 300	● 434	2020	1.93	0.758	230

Akustiskie dati

Trokšņa jaudas līmenis		63	125	250	500	1k	2k	4k	8k	Kop.
Ieplūde	dB(A)	63	74	76	85	74	75	72	67	87
Izplūde	dB(A)	64	72	75	88	81	80	71	66	90
Apkārtējs	dB(A)	41	54	55	56	51	52	48	40	61

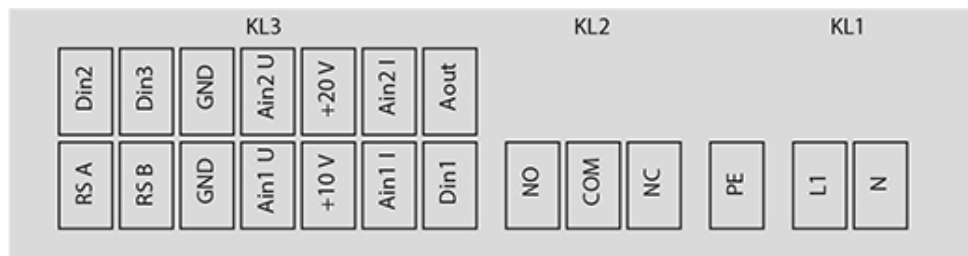
Trokšņa jaudas līmenis		63	125	250	500	1k	2k	4k	8k	Kop.
Ieplūde	dB(A)	53	67	71	74	67	67	64	60	77
Izplūde	dB(A)	57	65	72	76	74	72	63	59	80
Apkārtējs	dB(A)	26	47	50	45	44	44	41	32	54

Izmēri



	A	B	C	D	E	F	ØG	H	J	K	L	M
KBR 280EC	171,5	537	295	360	625	125	280	234	291	70	620	55
KBR 315EC	187,5	600	339	398	690	125	315	249	307	70	770	55
KBR 355EC	206,7	655	372	451	770	125	355	273	331	70	770	55

Elektroinstalācija



Connector	Connection	Assignment / function
KL1	N	Mains; N
	L1	Mains; L1
PE	PE	Protective earth
KL2	NC	Alarm relay, break for failure
	COM	Alarm relay, COMMON (2A, 250 VAC, AC1)
	NO	Alarm relay, make for failure

Connector	Connection	Assignment / function
KL3	Din1	Digital input 1 (enabling / disabling of electronics), Enabling: Pin open or applied voltage 5 to 50 VDC Disabling: Bridge to GND or applied voltage < 1 VDC
	Ain1 I	Analogue set value input, 4-20 mA (impedance 100Ω), only to be used as alternative to terminal Ain1 U
	+10 V	Supply for external potentiometer, 10 VDC (±3 %) max. 10 mA
	Ain1U	Analogue set value input, 0-10 V (impedance 100 kΩ), only to be used as alternative to terminal Ain1 I
	GND	GND
	RSB	RS485 interface for MODBUS RTU; RS B
	RSA	RS485 interface for MODBUS RTU; RS A
	Aout	Analogue output 0-10 V max. 5 mA, reading of current motor speed / current motor control factor
	Ain2 I	Analog. actual value input, 4-20mA (impedance 100Ω), only to be used as alternative to terminal Ain2 U
	+20 V	Supply for external sensor, 20 VDC (+25 % / -10%) max. 40 mA
	Ain2 U	Analog. actual value input, 0-10 V (impedance 100 kΩ), only to be used as alternative to terminal Ain2 I
	GND	GND
	Din3	Digital input 3 (switch Normal / Inverse), The preset effective direction of the integrated controller can be selected via BUS or via digital input Normal/Inverse. Normal: Pin open or applied voltage 5 to 50 VDC Inverse: Bridge to GND or applied voltage < 1 VDC
	Din2	Digital input 2 (switch Day / Night), The preset set of parameters can be selected via BUS or via digital input Day/Night.

		Day: Pin open or applied voltage 5 to 50 VDC
		Night: Bridge to GND or applied voltage < 1 VDC

Piederumi

Elektriskie piederumi

CO2 Pārveid. /CO2RT-R-D (6993)
 CXE/AVC 230V ZEC640 Regulators (7579)
 EC-Vent.vadības panelis (3018)
 EC-Vent.Vadības skapis (3115)
 HR1 Telpas mitruma sensors IP2 (5150)
 IR24-P Kustības sensors (6995)
 MTP 10, 10K Ātruma regulātors (32731)
 MTV-1/010 Kontrolieris 0..10V (30650)
 RT 0-30 Istabas termostats (5151)

Piederumi

ALS-KBT Tauku savācējs (2727)
 ASF 315/KB Elast. savienojums (2718)
 WBK 315/355 Kronšteins (2721)
 WSD 1 Motora aizsegs (2728)

Specifikācijas teksts

Dokumentācija



(EG-Konformitaetserklaerung KBT-KBR-MUB-K-MUB-T-DVN-DVNI DE-EN.pdf, 470kB)



(Operating and maintenance instructions.pdf, 1MB)