

# D4E225-CC01-39

## AC centrifugal fan

forward curved, dual inlet  
with housing (large flange)

<https://www.incotric.com>

[invotric@gmail.com](mailto:invotric@gmail.com)

### Nominal data

Type	D4E225-CC01-39		
Motor	M4E074-LA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	1210	1300
Power input	W	540	625
Current draw	A	2.4	2.75
Motor capacitor	μF	16	16
Capacitor voltage	VDB	400	400
Capacitor standard		P2 (CE)	P2 (CE)
Min. back pressure	Pa	250	300
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	30	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	B
Efficiency category	Total
Variable speed drive	No
Specific ratio*	1.00

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

	Actual	Request 2013	Request 2015
Overall efficiency $\eta_e$	36.5	33.9	40.9
Efficiency grade N	44.6	42	49
Power input $P_e$	kW	0.53	
Air flow $q_v$	m <sup>3</sup> /h	1965	
Pressure increase $p_f$	Pa	361	
Speed n	min <sup>-1</sup>	1335	

Data definition with optimum efficiency.

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## Technical features

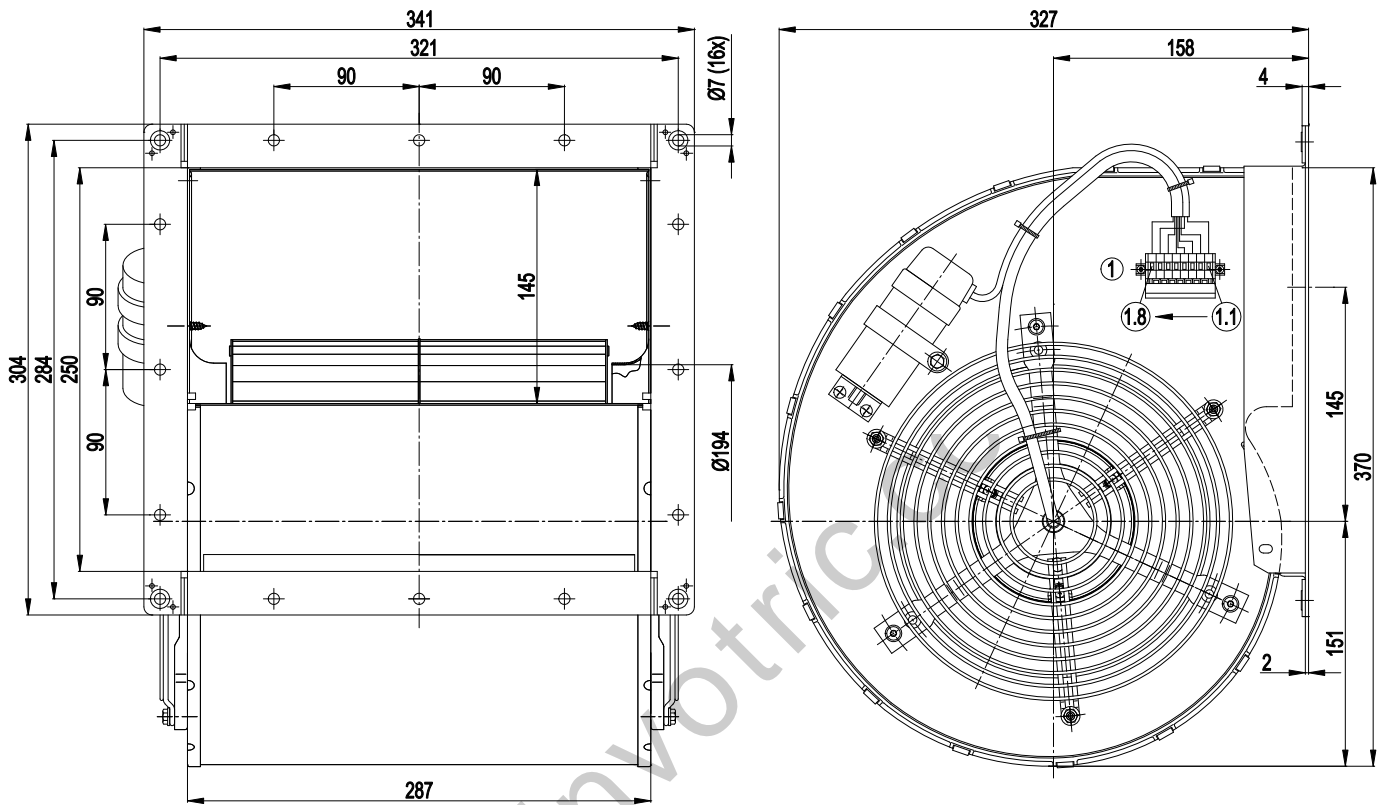
<b>Mass</b>	13.4 kg
<b>Size</b>	225 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of impeller</b>	Sheet steel, galvanised
<b>Housing material</b>	Sheet steel, galvanised
<b>Material of guard grille</b>	Steel, galvanised and plastic-coated in white aluminium (RAL 9006)
<b>Motor suspension</b>	Motor anti-vibration mounted on both sides
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 22
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F2-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) brought out
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE
<b>Approval</b>	CSA C22.2 Nr.100; UL 1004-1; CCC

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## Product drawing



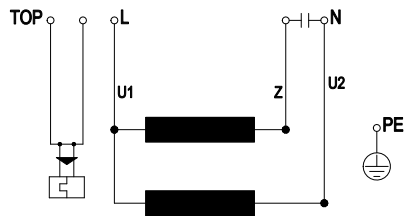
1	Connection line with connector housing WAGO 231-608/019-000
1.1	Capacitor
1.2	Z
1.3	U1
1.4	TOP
1.5	PE
1.6	TOP
1.7	Capacitor
1.8	U2

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## Connection screen



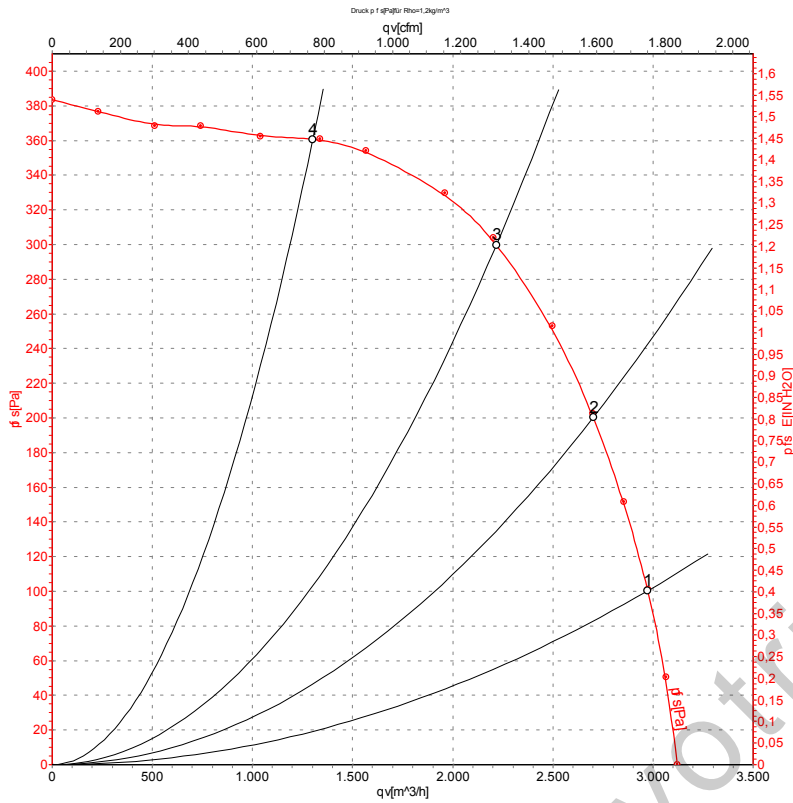
TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		

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## Charts: Air flow 50 Hz



Measurement: LU-35314

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

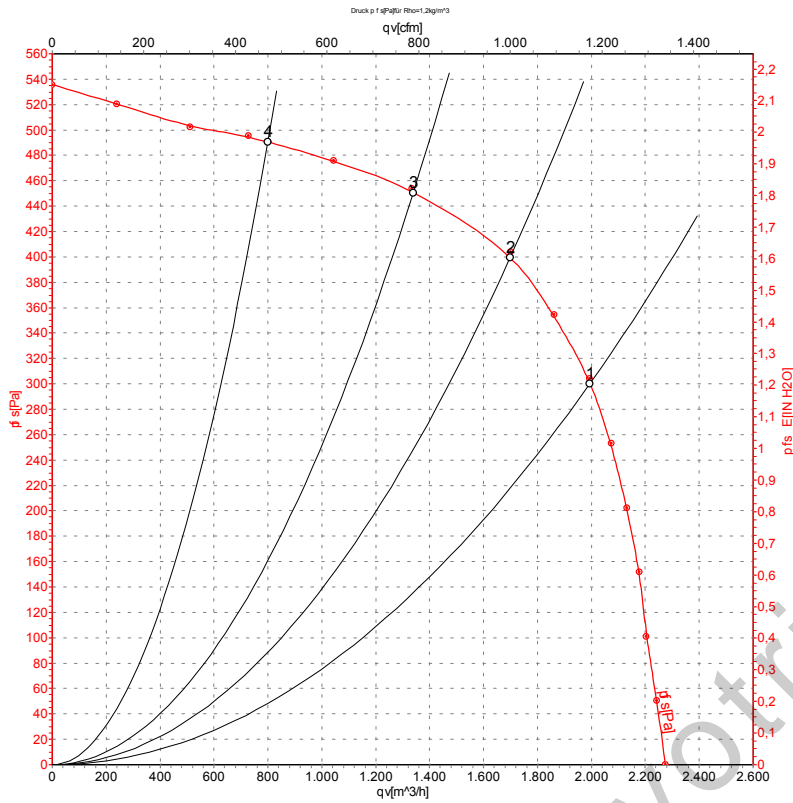
	U	f	n	P <sub>e</sub>	I	qv	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	50	1150	783	3.42	2975	100
2	230	50	1195	689	3.05	2700	200
3	230	50	1300	581	2.65	2215	300
4	230	50	1395	445	2.15	1300	360

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · P<sub>fs</sub> = Pressure increase

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## Charts: Air flow 60 Hz



Measurement: LU-35316

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: L<sub>WA</sub> measured as per ISO 13347 /L<sub>pA</sub> 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 <sub>e</sub>	I	qv	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	60	1300	646	2.81	1995	300
2	230	60	1465	553	2.43	1700	400
3	230	60	1565	474	2.13	1340	450
4	230	60	1645	390	1.83	800	490

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · P<sub>fs</sub> = Pressure increase