



# DAIN centrifugal fans

forward curved double inlet direct driven

RS4500



## Nominal data

**Type** DAIN.1212.6P.736.1V / RS4500

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Number of poles		6
Type of data definition		Max load
Standard		CE
Speed	1/min	928
Nominal Power	W	736
Current draw	A	6,00
Operating Capacitor	µF	20
Nominal capacitor voltage	VDB	450
Min. back pressure	Pa	300
Min. ambient temperature	°C	-20
Max. ambient temperature	°C	+40

## Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	1,00
Specific ratio*	1,00

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

			Request
Overall efficiency $\eta_{es}$		33,1	31,1
Efficiency grade N		39	37
Power input $P_{ed}$	W	1151	
Air flow $q_v$	m <sup>3</sup> /h	3972	
Pressure increase $p_{fs}$	Pa	345	
Speed $n$	1/min	939	

Data established at point of optimum efficiency



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## Technical features

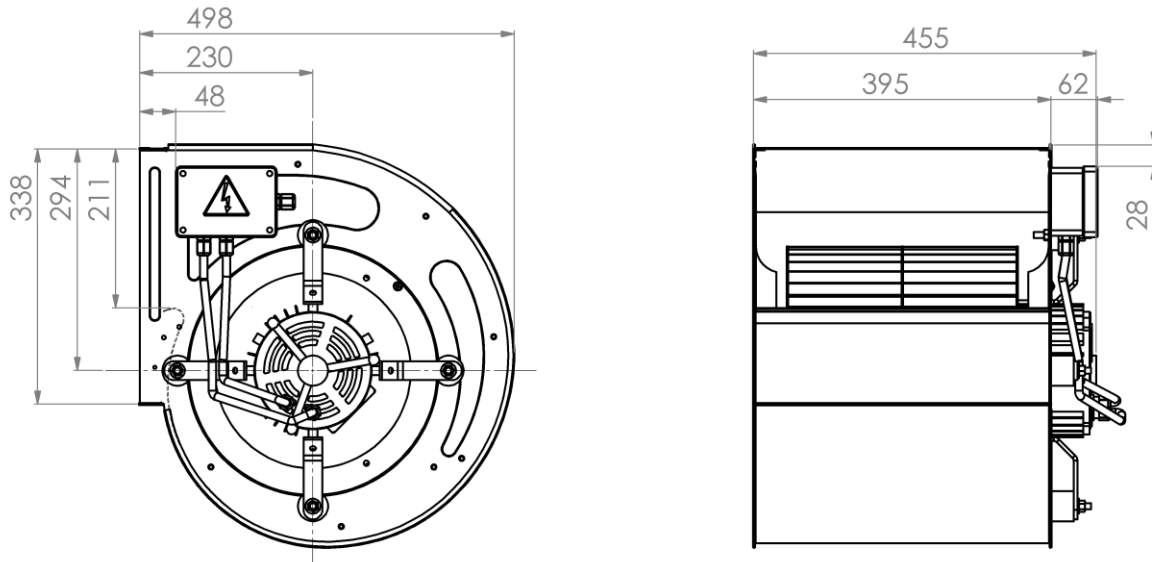
Mass	kg	27
Size		12/12
Surface of rotor		Not coated
Material of impeller		Sheet steel, hot-galvanised
Housing material		Sheet steel, hot-galvanised
Direction of rotation		Counter-clockwise, seen on rotor
Motor protection class		IP44
Motor Thermal class		B
Max. permissible ambient motor temp. (transp./ storage)	°C	+80
Min. permissible ambient motor temp. (transp./ storage)	°C	-40
Mounting position		All
Operation mode IEC 34-1		S1
Motor bearing		Ball bearing
Over Heating Motor Protection		INT
Connection box		Yes
Outlet Surface	m <sup>2</sup>	0,135
Speed Control		TRIAC / Transformer
Max. power consumption	W	2081

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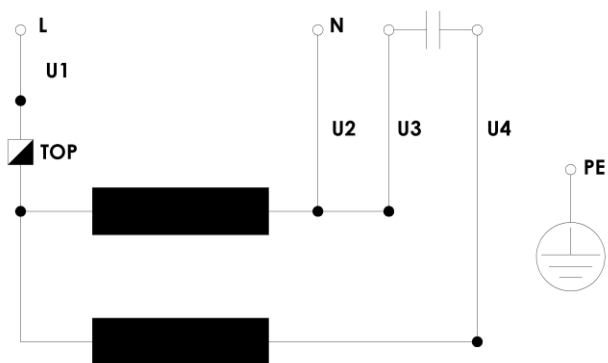
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## Drawing



## Connection screen



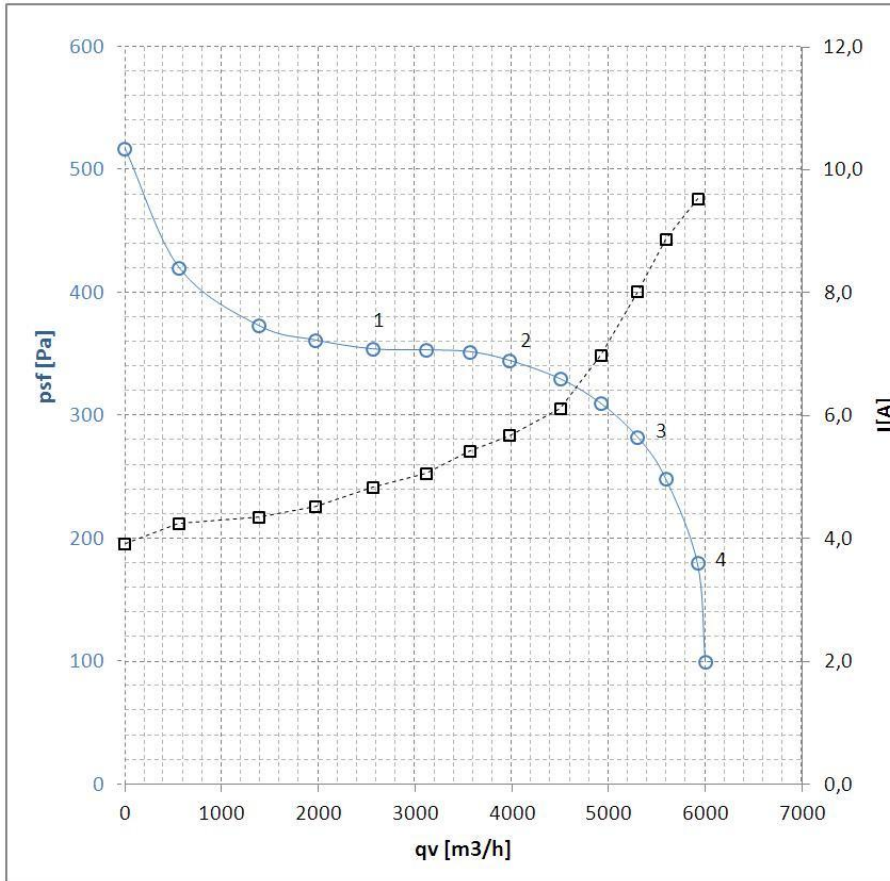
PE	Yellow / green
U1	Brown
U2	Blue
U3	Brown
U4	Blue

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## Performance



Air performance measured as per ISO 5801 installation category A.

## Measured values

	U	f	n	Pe	I	qv	pfs
	V	Hz	1/min	W	A	m3/h	Pa
1	230	50	959	944	4,83	2562	354
2	230	50	939	1151	5,68	3972	345
3	230	50	871	1638	8,03	5299	283
4	230	50	694	2081	9,52	5920	180

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