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Nominal data

Type	R4D450-RH01-01		
Motor	M4D110-GF		
Phase		3~	3~
Nominal voltage	VAC	230	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1350	1350
Power input	W	710	710
Current draw	A	2.51	1.45
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	17.5	10

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	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	52	45.7	49.7
Efficiency grade N		64.3	58	62
Power input P_e	kW	0.67		
Air flow q_v	m ³ /h	3385		
Pressure increase p_{fs}	Pa	376		
Speed n	min ⁻¹	1360		

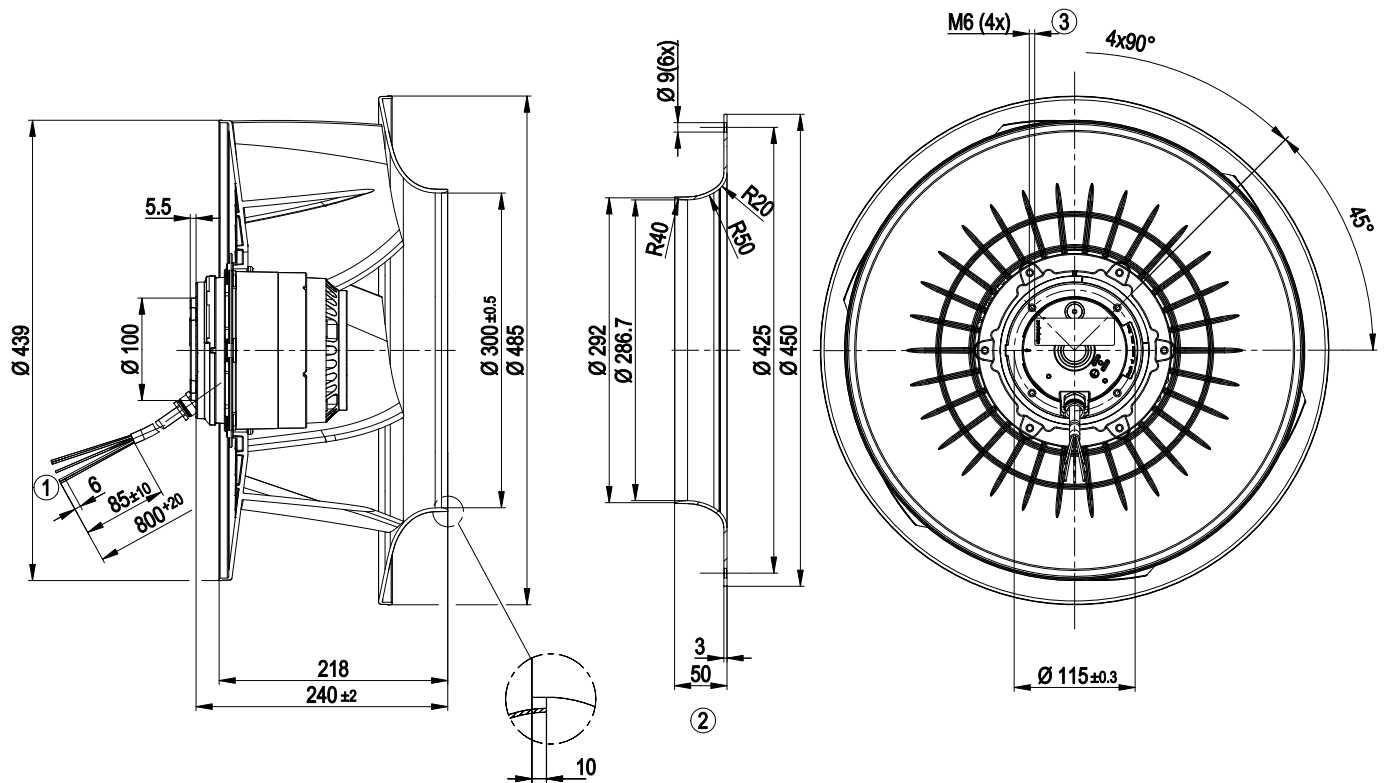
Data definition with optimum efficiency. LU-143240
 The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

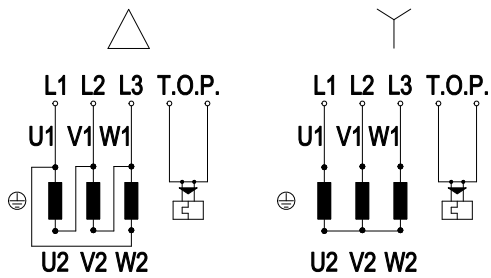
Mass	9.4 kg
Size	450 mm
Surface of rotor	Cast in aluminium
Material of impeller	PP plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2004); CE
Approval	CCC; EAC; VDE; UL 1004-1; CSA C22.2 Nr.100

Product drawing



1	Connection line silicone 9G 0.75 mm ² , 9x brass lead tips crimped
2	Accessory part: Inlet nozzle 45901-2-2943, not included in the standard scope of delivery.
3	Depth of screw max. 12 mm

Connection screen

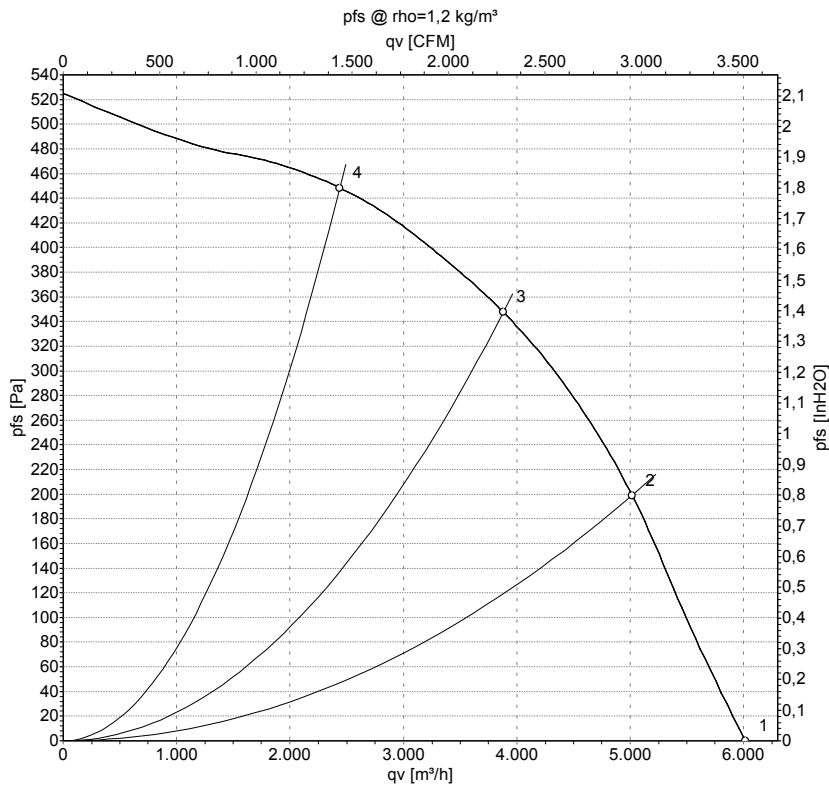


Note: Direction of rotation changes when two phases are reversed

Δ	Delta-connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	grey



Charts: Air flow 50 Hz



Measurement: LU-143240

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

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Y	400	50	1405	496	1.17	68	77	84	6015	0
2	Y	400	50	1370	644	1.32	66	75	82	5015	200
3	Y	400	50	1350	710	1.45	62	70	77	3880	350
4	Y	400	50	1370	650	1.32	65	73	79	2440	450

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase