

ASIA PACIFIC SHENGRUI LIMITED

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Nominal data

Type	R4D355-CM15-05	
Motor	M4D138-LA	
Phase		3~
Nominal voltage	VAC	400
Connection		Y
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min ⁻¹	1300
Power input	W	4370
Current draw	A	7.95
Min. back pressure	Pa	0
Max. ambient temperature	°C	65
Starting current	A	27

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*	1.01

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		39.2	32.2	39.2
Efficiency grade N		44	37	44
Power input P_e	kW	1.72		
Air flow q_v	m ³ /h	2980		
Pressure increase p_{fs}	Pa	803		
Speed n	min ⁻¹	1435		

Data established at point of optimum efficiency



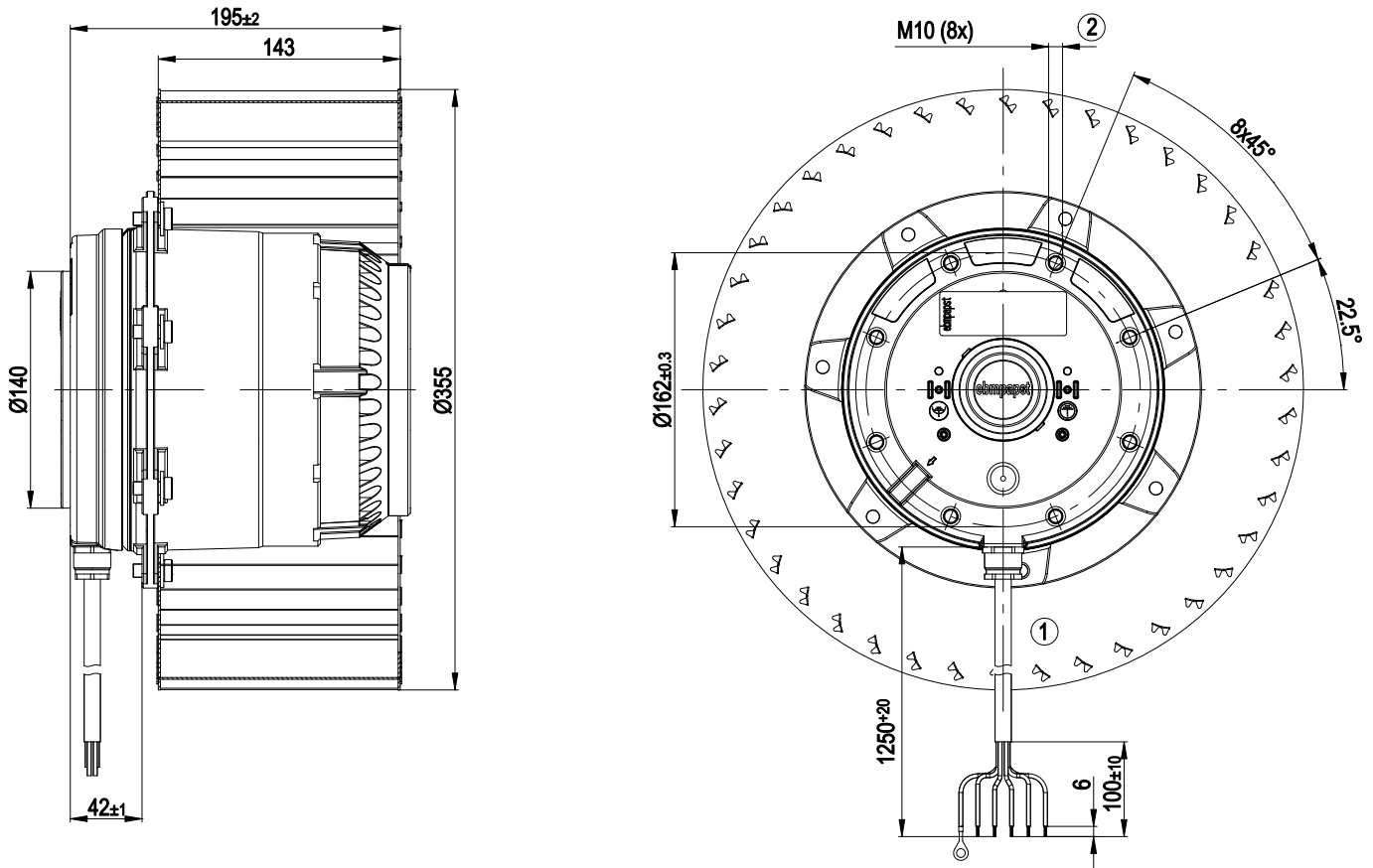
Technical features

Mass	23.5 kg
Size	355 mm
Surface of rotor	Cast in aluminium
Material of impeller	Sheet steel, hot-galvanised
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	Any
Condensate discharge holes	On rotor and stator sides
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
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; EN 60034; CE
Approval	VDE

AC centrifugal fan

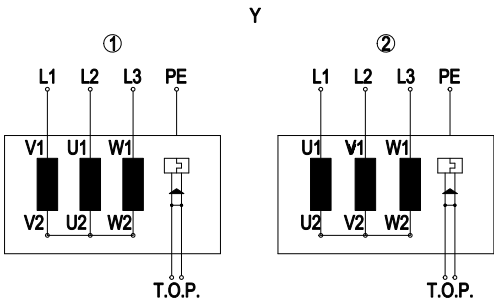
forward curved, single inlet

Product drawing



- | | |
|---|--|
| 1 | Connection line halogen-free, 5x brass lead tips crimped and 1x contact stud crimped |
| 2 | Depth of screw max. 18 mm |

Connection screen



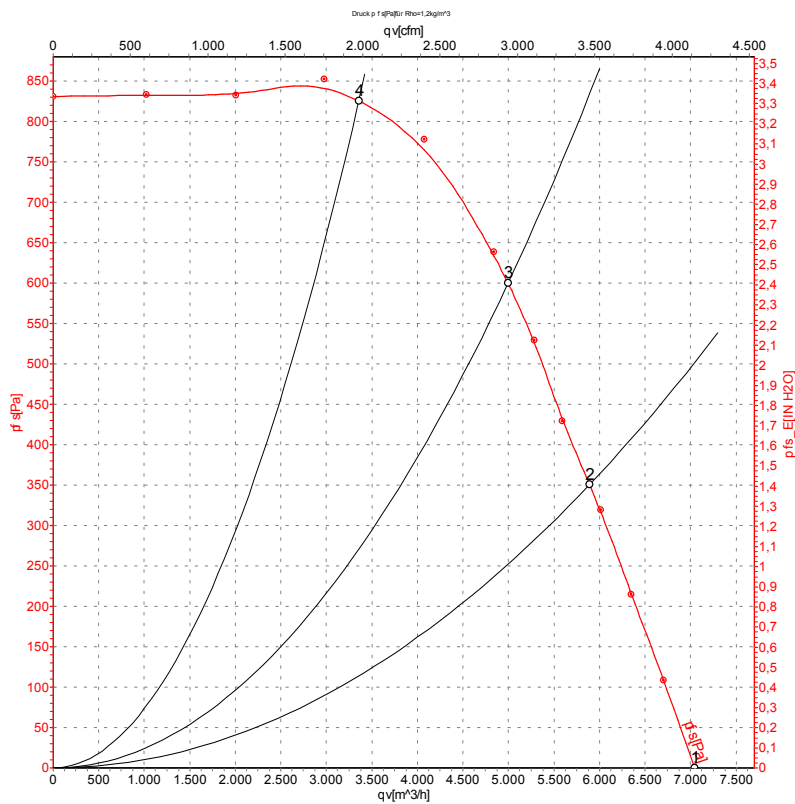
Y	Star connection, three-phase motor
1	Counter-clockwise operation
L1	blue
L2	black
L3	brown
PE	green/yellow
TOP	grey
2	Clockwise operation
L1	black
L2	blue
L3	brown
PE	green/yellow
TOP	grey



AC centrifugal fan

forward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-101232

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_{wA} measured as per ISO 13347 /
L_{pA} 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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	Y	400	50	1300	4370	7.95	90	96	7045	0
2	Y	400	50	1355	3450	6.49	87	93	5890	350
3	Y	400	50	1390	2788	5.53	85	90	4995	600
4	Y	400	50	1430	1888	4.34	81	86	3355	825

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
qv = Air flow · p_{fs} = Pressure increase

