

R3G355-AM14-61

EC centrifugal fan

backward curved, single inlet



Nominal data

Type	R3G355-AM14-61	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	[VAC]	230
Nominal voltage range	[VAC]	200 .. 277
Frequency	[Hz]	50/60
Type of data definition		rfa
Speed	[min ⁻¹]	1900
Power input	[W]	350
Current draw	[A]	1,5
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	40
Air flow	[m ³ /h]	3500
Back pressure	[Pa]	0
Sound pressure level	[dB(A)]	76

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

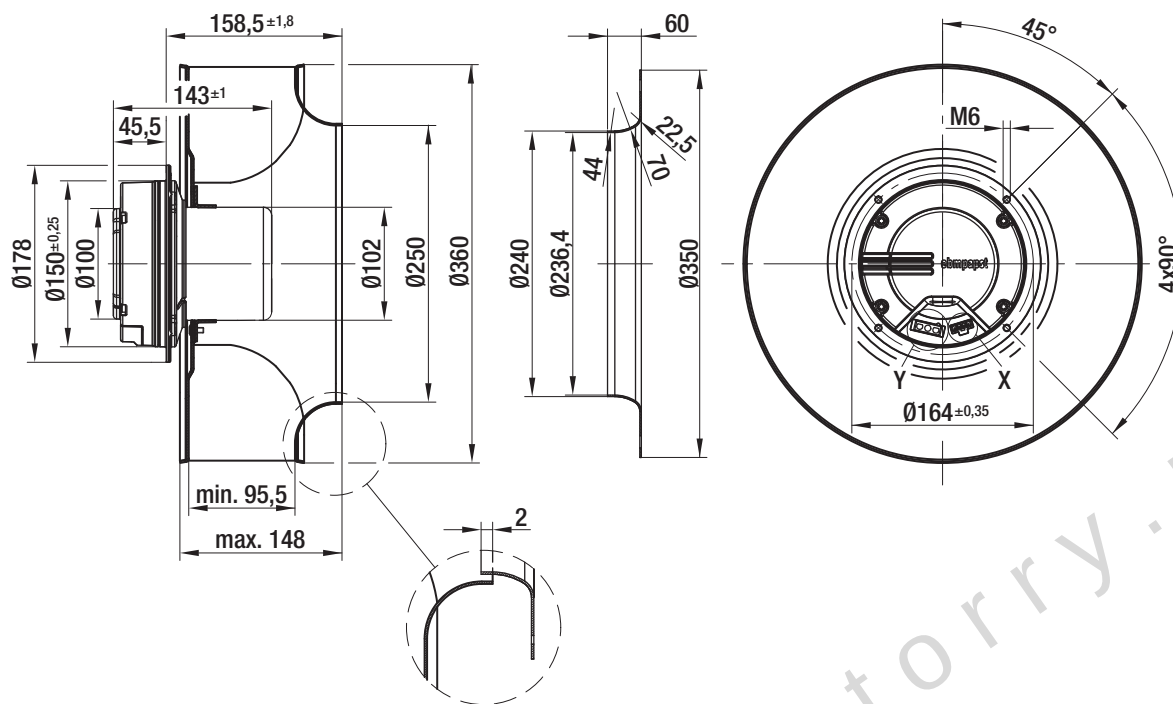
Leakage current	<= 3,5 mA
General description	Integrated electronics
Size	355 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Electrical leads	With plug
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-4 (industrial environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	5.37 kg
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminum sheet, laser-welded
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 61800-5-1
Surface of rotor	Coated in black
Number of blades	6
Type of protection	IP 20
Protection class	I
Technical features	- Over-temperature protected electronics / motor - PFC, active - Integrated PID controller - RS485 ebmBUS - Motor current limit - Soft start - Line undervoltage / phase failure detection - Operation and alarm display: reversible voltage output 0 V / +15 V
Max. permissible ambient motor temp. (transp./ storage)	80
Min. permissible ambient motor temp. (transp./storage)	-40
Approval	CCC; CSA C22.2 Nr.13; UL 507

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Product drawing

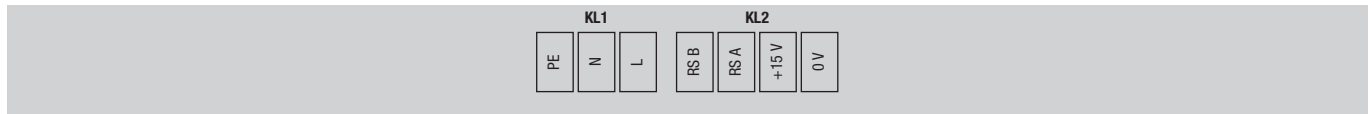


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Connection screen



Connector	Connection	Assignment / function
KL1	PE	Protective earth
	N	Mains 50/60 Hz, neutral
	L	Mains 50/60 Hz, phase

Connector	Connection	Assignment / function
KL2	RS B	RS485 interface for ebmBUS; RS B
	RS A	RS485 interface for ebmBUS; RS A
	+15 V	Operation: +15 V (50 mA); Alarm: 0 V
	0 V	Operation: 0 V; Alarm: +15 V (50 mA)

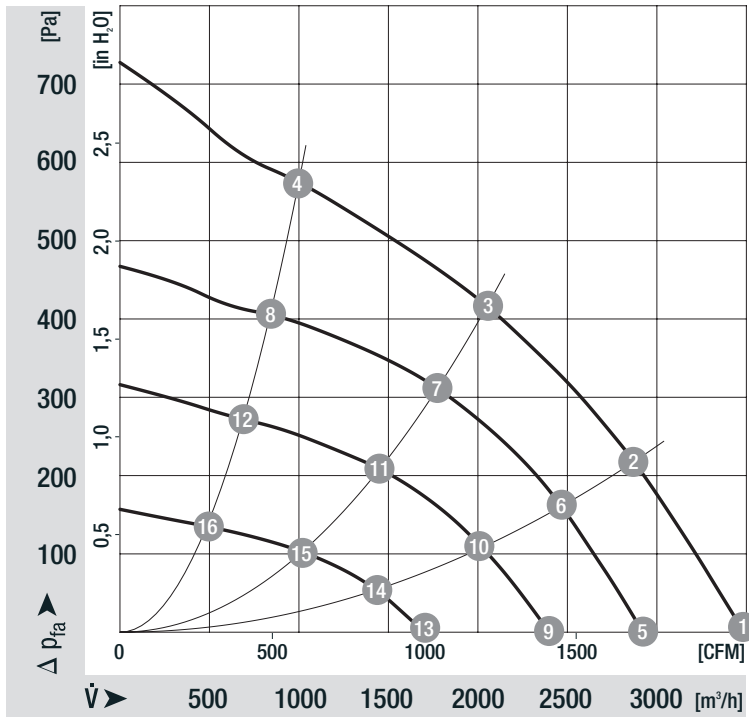
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Charts: Air flow



Measured values

	n	P ₁	I	η _{TL}
	[min ⁻¹]	[W]	[A]	[%]
1	1840	335	1.50	
2	1790	405	1.80	56
3	1770	430	1.90	70
4	1820	365	1.60	58
5	1540	200	0.90	
6	1540	256	1.10	56
7	1540	277	1.20	70
8	1540	235	1.00	58
9	1260	115	0.50	
10	1260	150	0.70	56
11	1260	159	0.70	70
12	1260	125	0.50	58
13	890	55	0.20	
14	890	67	0.30	56
15	890	70	0.30	70
16	890	59	0.30	58