

R3G355-AM14-61

EC centrifugal fan

backward curved, single inlet



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Nominal data

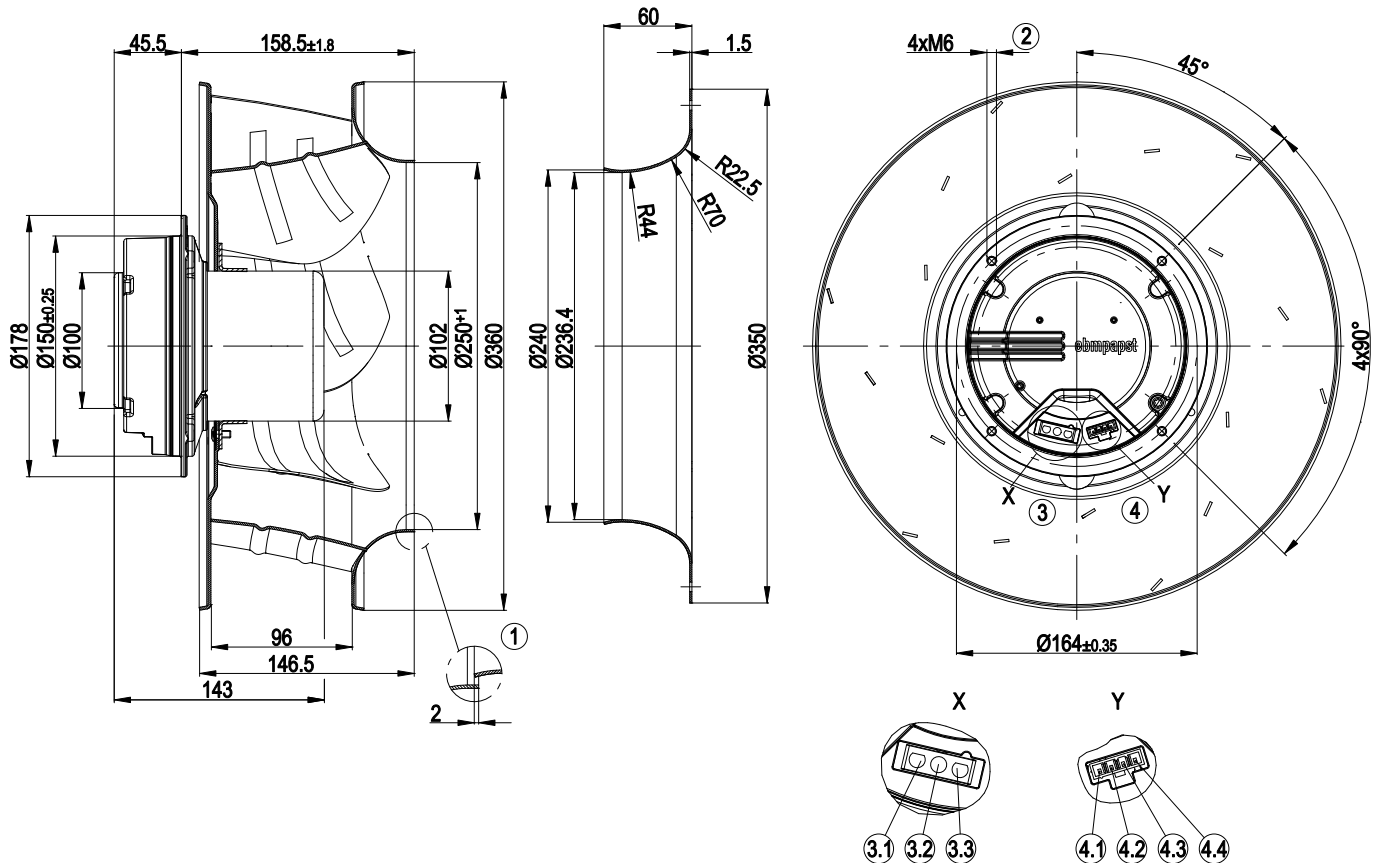
Type	R3G355-AM14-61	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	[VAC]	230
Nominal voltage range	[VAC]	200 .. 277
Frequency	[Hz]	50/60
Type of data definition		rfa
Speed	[min ⁻¹]	1900
Power input	[W]	350
Current draw	[A]	1.5
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	40

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

Technical features

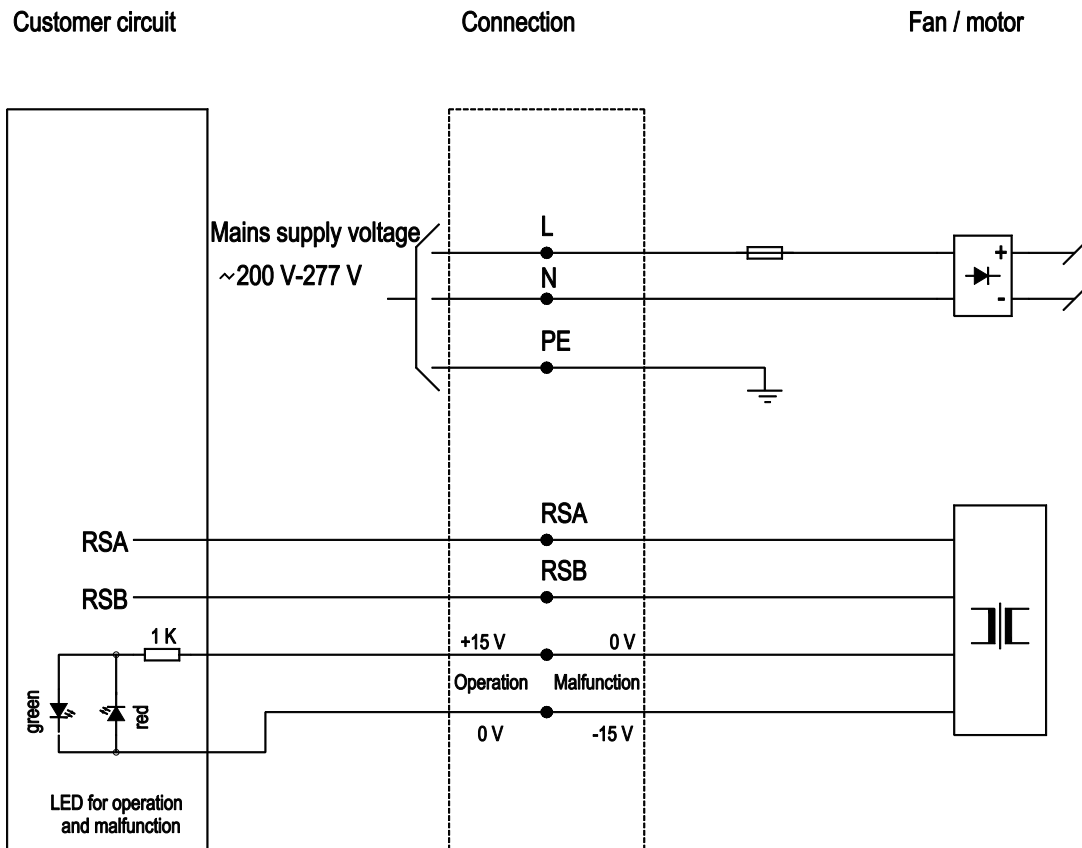
Leakage current	<= 3,5 mA
General description	Integrated electronics
Size	355 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Electrical leads	With plug
EMC harmonics	Acc. to EN 61000-3-2/3
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 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.113; UL 507

Product drawing

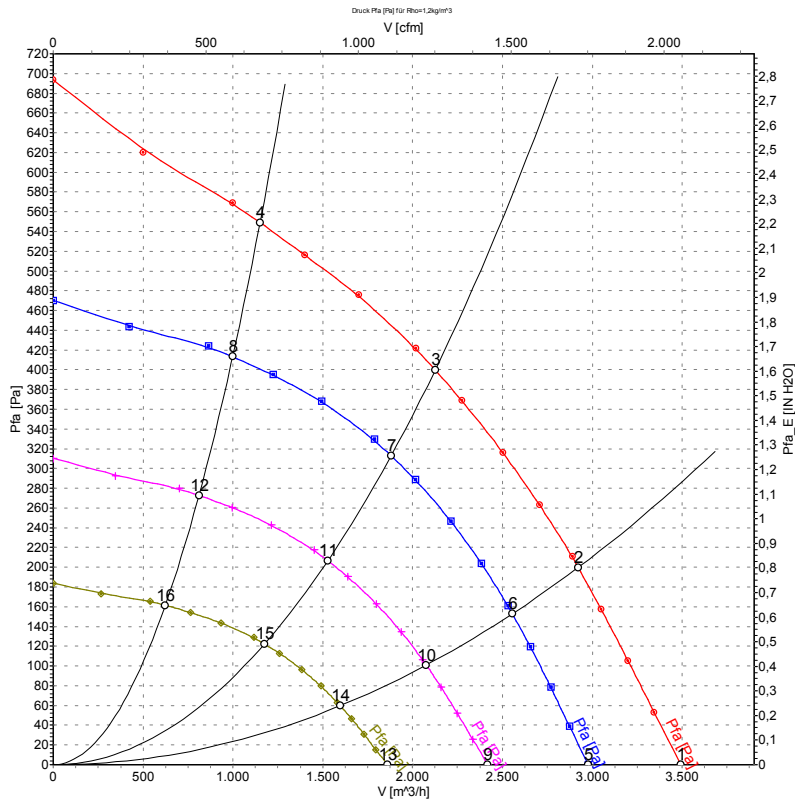


X	Detail X
Y	Detail Y
1	Accessory part: inlet nozzle 35560-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
2	Depth of screw 8 - 10 mm
3	Strip Lonco No. C63502-3A, mating connectors with female terminals are not included in the standard scope of delivery
3.1	PE
3.2	L
3.3	N
4	Strip Molex No. 39-30-2046, mating connectors with female terminals are not included in the standard scope of delivery
4.1	RSB
4.2	RSA
4.3	+15 V; in the event of fault: 0 V
4.4	0 V; in the event of fault: +15 V

Connection screen



Charts: Air flow 50 Hz



Measured values

	U	f	n	P ₁	I	$\hat{V}$	P _{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	230	50	1900	350	1.50	3500	0
2	230	50	1830	416	1.83	2920	200
3	230	50	1810	446	1.97	2125	400
4	230	50	1845	402	1.77	1150	550
5	230	50	1600	216	0.96	2975	0
6	230	50	1600	278	1.23	2555	153
7	230	50	1600	309	1.36	1880	313
8	230	50	1600	262	1.16	1000	413
9	230	50	1300	116	0.51	2420	0
10	230	50	1300	149	0.66	2075	101
11	230	50	1300	166	0.73	1530	207
12	230	50	1300	141	0.62	810	273
13	230	50	1000	53	0.23	1860	0
14	230	50	1000	68	0.30	1595	60
15	230	50	1000	75	0.33	1175	122
16	230	50	1000	64	0.28	625	162