

Motor Type AC CENTRIFUGAL FORWARD CURVED FAN 140 x 59

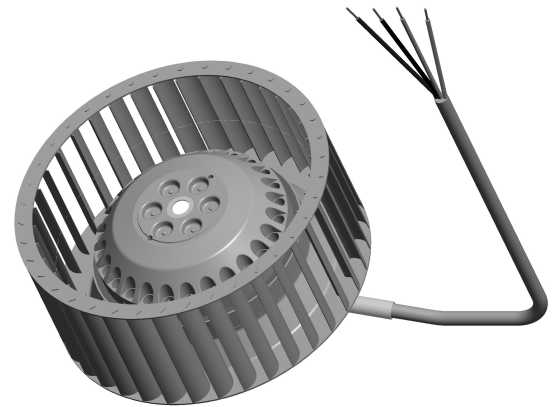
Code: 20-580431

Project code:

Supply		Poles	Speed	Stator	Impeller Type	
230 V	50 Hz	~ 1	2	4	M25	Centrifugal Forward Curved Blade single inlet

Nominal Data

Nominal voltage	[V]	230
Frequency	[Hz]	50
Speed	[rpm]	2601
Power input	[kW]	0.11
Current draw	[A]	0.49
cos φ	[-]	0.98
Max Efficiency (stat A)	[%]	24.0
Efficiency Grade (N)	[-]	36.4
Capacitor	[μF]	4
	[V]	450

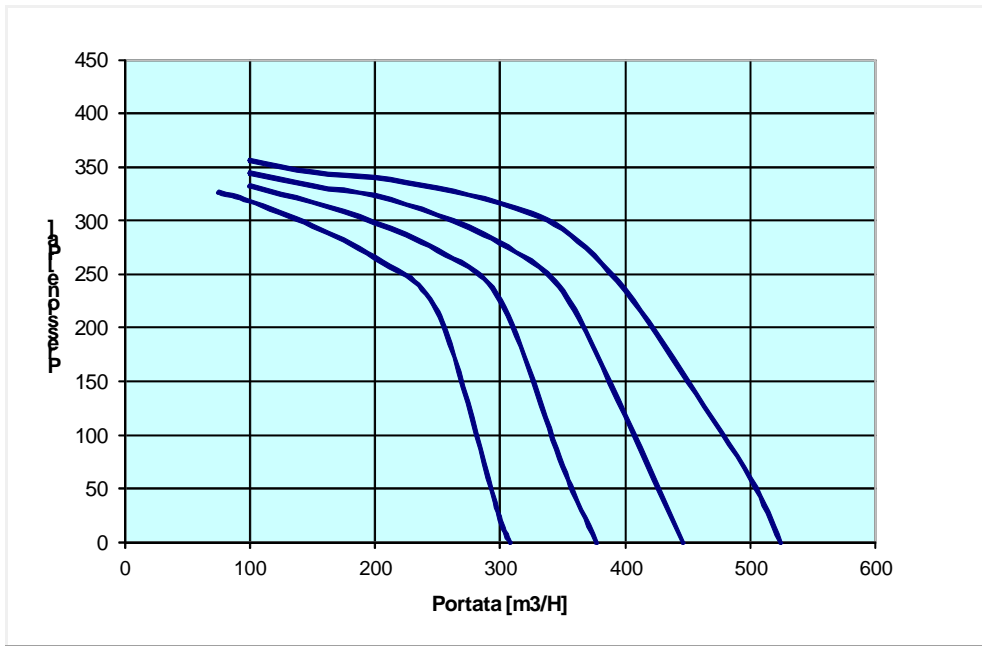


Technical Features

	50 Hz	
Max. operating temperature	[°C]	30
	[°F]	86
Min. operating temperature	[°C]	-30
	[°F]	-22
Air flow @ 0 Pa	[m³/h]	524
Thermal protector	Automatic reset	
Insulation class	B	
Motor bearing	Ball bearing	
Protection level	IP33	
Product compliant to	CE; EN 60335-1	
Approval	CSA on request	
	VDE on request	
Rotation (seen on rotor side)	Clockwise	
Impeller size (Ø x h)	[mm]	140 x 59
Impeller material	Metal	
Weight	[kg]	1.92
Cable lenght	[mm]	450
Condensate discharge holes (on rotor side)	NO	
ERP compliant	ERP 2015	

Temperature Rise		
Test Setup @ 244 V	50 Hz	
Scroll @ 0 Pa		
ΔT Main	[K]	68
ΔT Aux	[K]	65
Working Point		
ΔT Main	[K]	65
ΔT Aux	[K]	68

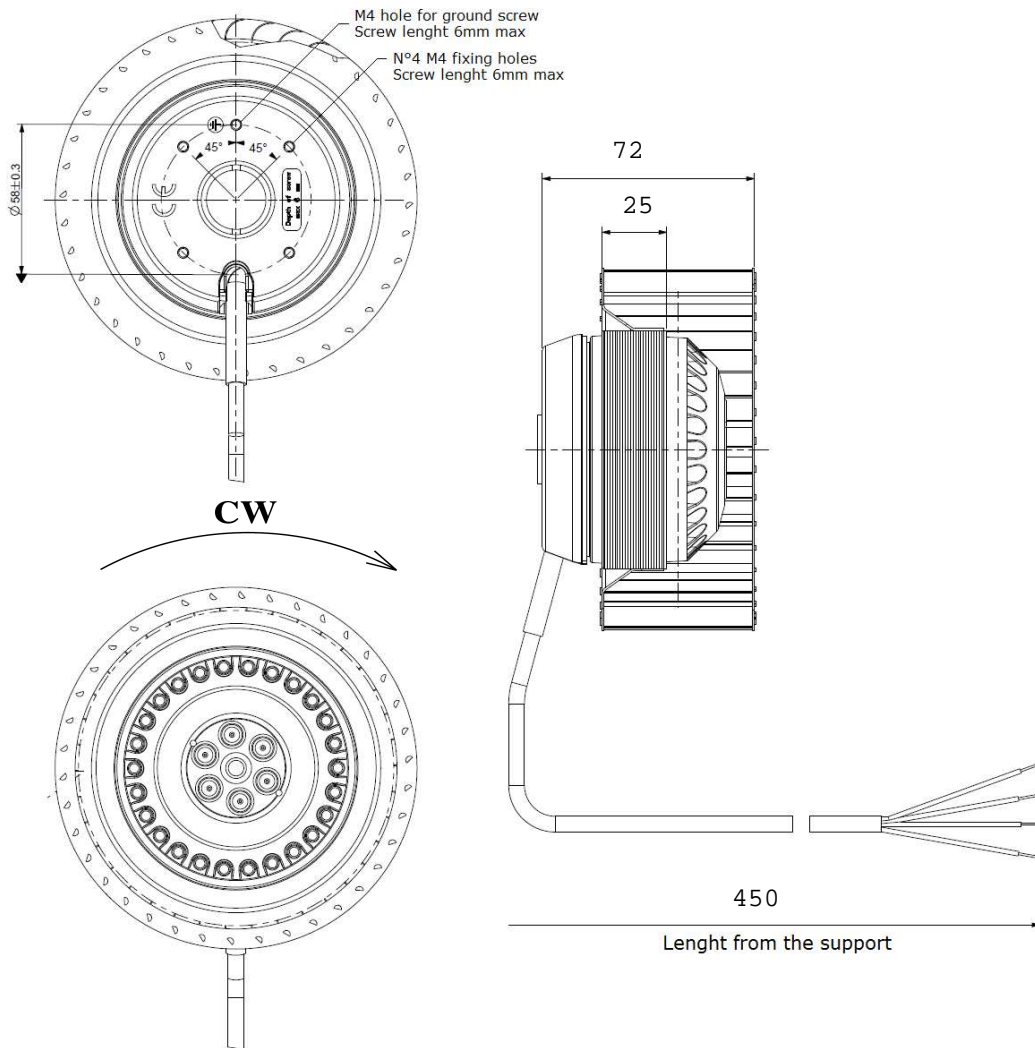
Air flow performance at 230V 50Hz



TEST SETUP:
Customer scroll

Supply		Speed	Power	Current	Efficiency	Flow rate	Pressure	Flow rate	Pressure	
[V]	[Hz]	[rpm]	[W]	[A]	[%]	[m³/h]	[Pa]	[cfm]	[in_H ₂ O]	
230	50	2788	86	0.38	11.5	100	356	59	1.429	speed4
230	50	2601	110	0.49	24.0	300	316	177	1.269	
230	50	2422	131	0.57	20.0	400	235	235	0.943	
230	50	2060	159	0.70	0.0	524	0	308	0.000	
230	50	0	203	0.87	Locked rotor test					
230	50	2732	93	0.41	Free Air test without scroll					
230	50	2748	72	0.35	13.2	100	344	59	1.381	speed3
230	50	2628	85	0.41	21.2	200	323	118	1.297	
230	50	2444	102	0.48	22.9	300	279	177	1.120	
230	50	1777	142	0.64	0.0	446	0	263	0.000	
230	50	2698	65	0.34	14.3	100	332	59	1.333	speed2
230	50	2541	79	0.40	20.9	200	298	118	1.196	
230	50	2220	102	0.49	18.4	300	226	177	0.907	
230	50	1479	133	0.60	0.0	377	0	222	0.000	
230	50	2676	57	0.31	11.9	75	326	44	1.309	speed1
230	50	2555	67	0.36	18.3	150	295	88	1.184	
230	50	2159	94	0.45	15.9	250	215	147	0.863	
230	50	1240	123	0.56	0.0	308	0	181	0.000	

Overall Dimensions



Wiring Diagram

