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www.fotorele.net www.tiristor.by радиодетали, электронные компоненты
email minsk17@tut.by tel.+375 29 758 47 80 мтс

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7856 ES

AC axial compact fan

ebm-papst St. Georgen GmbH & Co. KG
Hermann-Papst-Str. 1
D-78112 St. Georgen
Phone +49 (0) 7724 81-0
Fax +49 (0) 7724 81-1309
info2@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	7856 ES	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Speed (rpm)	min^{-1}	2800
Power consumption	W	45
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Air flow	m^3/h	325
Sound power level	B	6.0
Sound pressure level	dB(A)	49

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

AC axial compact fan

Technical description

Weight	1.1 kg
Dimensions	Ø 150 x 55 mm
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum
Airflow direction	Exhaust over struts
Direction of rotation	Counterclockwise, viewed toward rotor
Storage	Ball bearing
Service life L10 at 40 °C	60000 h
Service life L10 at maximum temperature	30000 h
Cable	To 2 leads. Wire ends with splice. Grounding lug for M4 x 8.
Motor protection	Protected from overload by thermal switch
Approval	VDE, CSA, UL, CE

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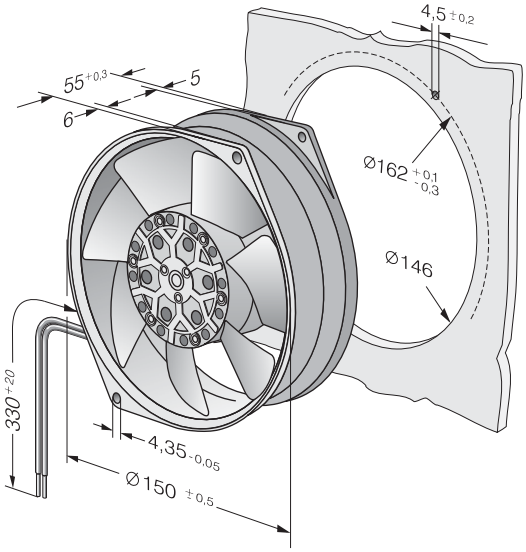
AC axial compact fan

Product drawing



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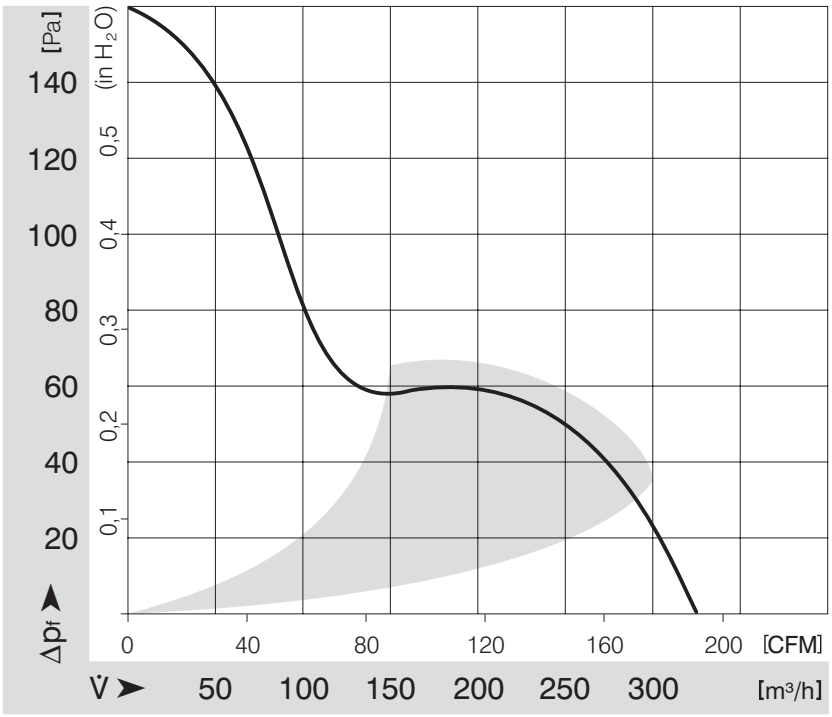
AC axial compact fan

Curves: Air performance



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AC 5E

SIZE :

170x150x55mm (6.69"x5.91"x2.17")

CONSTRUCTION :

- Die-cast aluminum housing
- Metal impeller or
  Glass fiber reinforced plastic:
  Impeller are UL 94V-0 rating
- Shaded pole motor
- Impedance protected
- Leader wire available

OPERATING TEMPERATURE :

Ball bearing - 30°C to +75°C

WEIGHT :

1000 grams

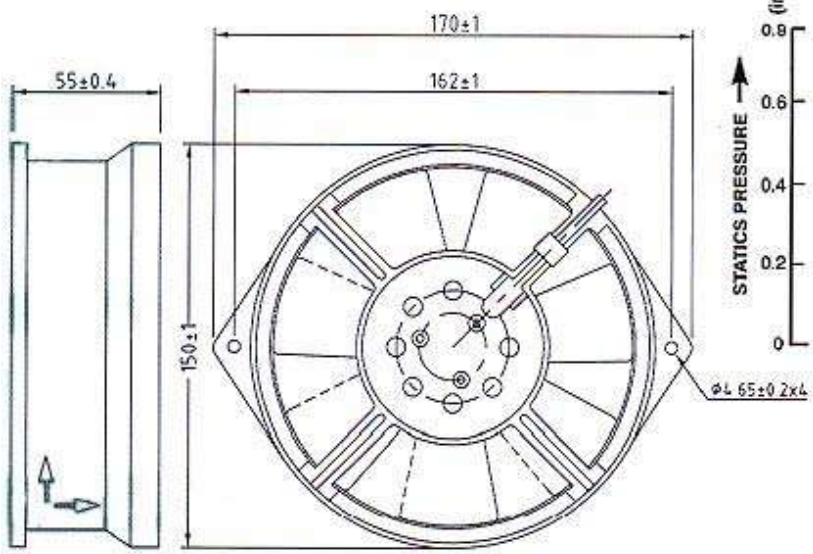
IP54

Specifications

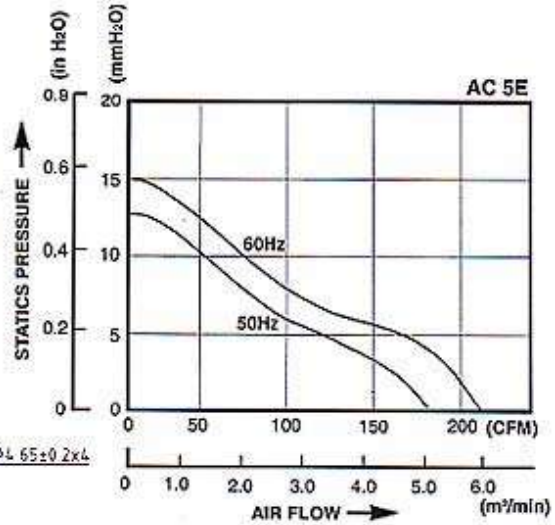
Specifications are subject to change without notice

MODEL NO.	BEARING	RATED VOLTAGE	FREQUENCY	MAX. RATED CURRENT	MAX. INPUT POWER	SPEED	MAX. AIR FLOW		MAX. AIR PRESSURE		NOISE
		VAC	Hz	mA	W	R.P.M.	m³/min	CFM	mmH₂O	IN H₂O	dB-A
5E-200B	Ball	200	50/60	300/280	46/44	2600/2700	4.92/5.21	174/184	10.17/10.23	0.40/0.41	50/53
5E-115B	Ball	115	50/60	640/540	48/46	2750/3100	5.66/6.79	200/240	12.30/13.70	0.48/0.54	50/53
5E-230B	Ball	230	50/60	300/280	46/44	2750/3100	5.66/6.79	200/240	12.30/13.70	0.48/0.54	50/53
5E-DVB	Ball	230/115	50/60	310/600	47/47	2750/3100	5.66/6.79	200/240	12.30/13.70	0.48/0.54	50/53
5P-115B	Ball	115	50/60	640/540	48/42	2850/3400	5.38/6.51	190/230	12.30/13.70	0.48/0.54	50/53
5P-230B	Ball	230	50/60	280/240	46/40	2850/3400	5.38/6.51	190/230	12.30/13.70	0.48/0.54	50/53
5E-DVB-1	Ball	200/100	50/60	330/620	45/50	2750/3100	5.66/6.79	200/240	12.30/13.70	0.48/0.54	50/53

Dimensions (mm)



Performance Curve



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