Sample documentation

ebm-papst Ventilator Shanghai
Company
Haier Carrier
China

Prepared by:	Phone:	Fax:	e-mail:	Date:
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Sample part-number: W6D650-GA01-XA

Customer specification: Axial fan for carrier condenser Projectnumber: 303123

Details / Technical Description:

- The fan with square wall ring and guard grille

Enclosures:

X	Design Specifications		
X	Drawing with dimensions		
X	Wiring diagram:		
X	Air performance measurement with graph	Test No.18358	ID 157036
X	Noise measurements	Test No. 18358	ID 156946

Form 1012

Design specification

Projekt-Nr.: 303123

Motor:

design	:	M6D110-IA
stack length	:	80 mm
winding layout	:	BR 7005

Electrical data:

3~ Δ 400 VAC	50 Hz	Max. input power :	810 W	1.73A	885 min^{-1}
3~ Y 400 VAC	50 Hz		530 W	0.95A	680min^{-1}
nameplate data	:	label on motor mounting			

Motor protection: Thermal overload protection (TOP) brought out

Class	:	

Impeller:

air flow direction	:	V
diameter x width	:	Ø 650mm
blade type	:	Sheet metal Axial blade, Blade Angle 0°
material	:	ALU
mounting type	:	Screwed on the rotor

Bearings:

type	:	ball bearing
life expectancy	:	

Surface-/Envoiromental:

paint/protection type	:	
protection class	:	IP54

Admissible Ambient Temperature:

operation:	:	min: -40°C	max.: + 65°C (0 – 100 Pa at Δ 400 V / 50 Hz)
transport and storage::		min: -40°C	max.: + 80°C

Electrical Connection / Wiring:

type	:	Terminal box

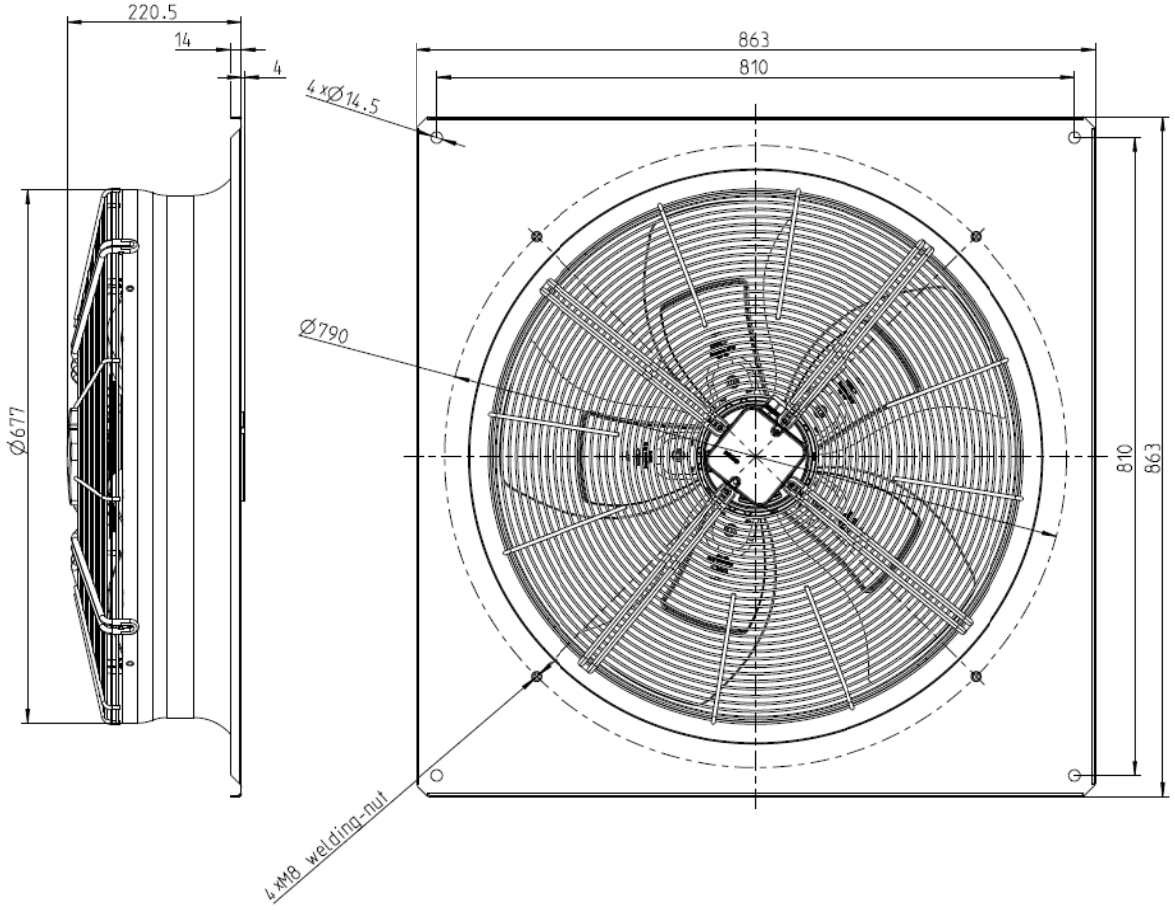
Safety Recommendations:

NOTE: We reserve the right to implement design modifications for series production level.

Technical inspection and verification of sample:

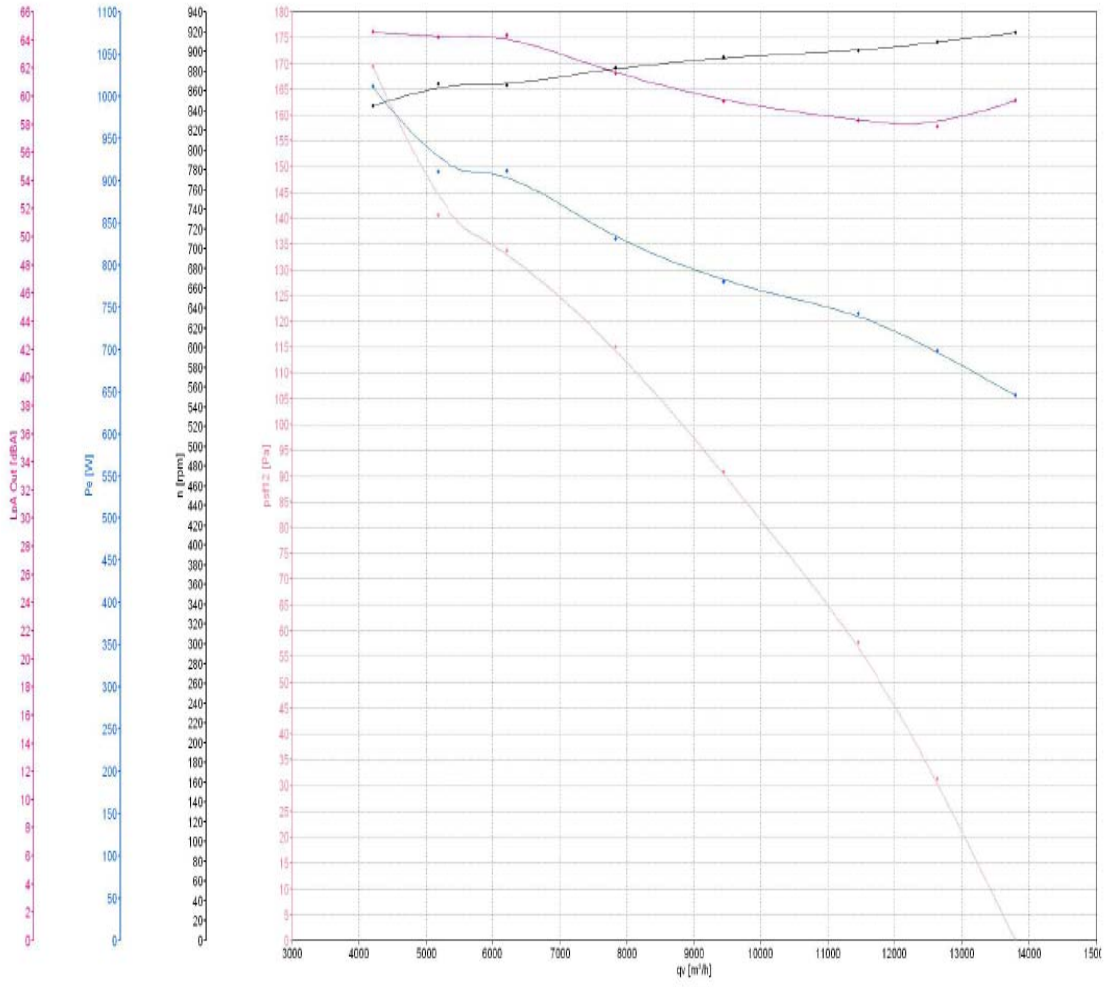
2013/08/07 Robert Bao

Signature of the Project Leader


220.5
14
4
4 xØ14.5
863
810
Ø790
Ø677
810
863
4 xM8 welding-nut

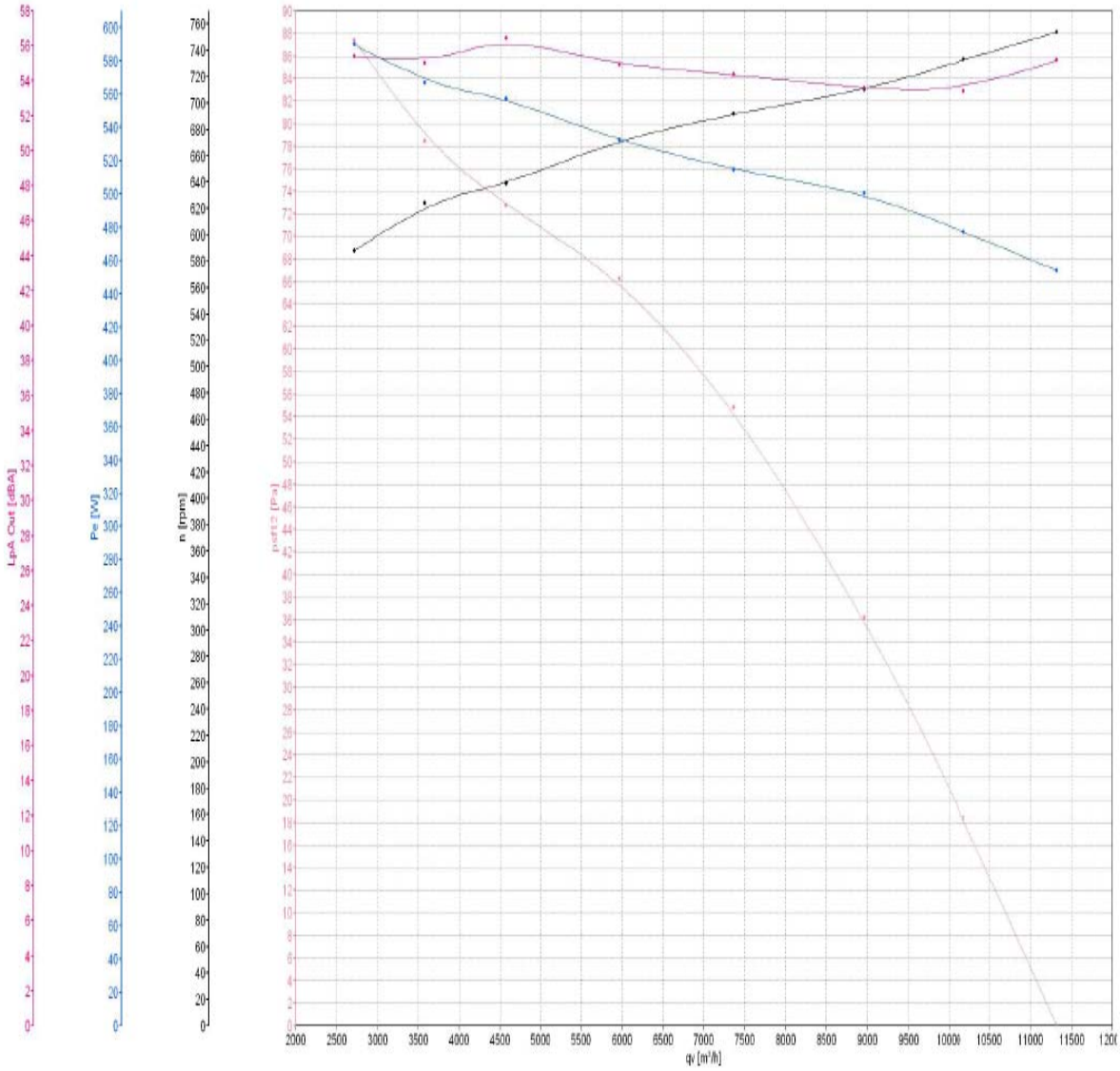
Diagram

IDNO	Type	U [V]	f [Hz]	C [uF]	Uc [V]	PWM [%]	Layout	Inst. cct.	Line	Remark
156946	A6E650GA01XA-01A	400	50		0		Δ	A		

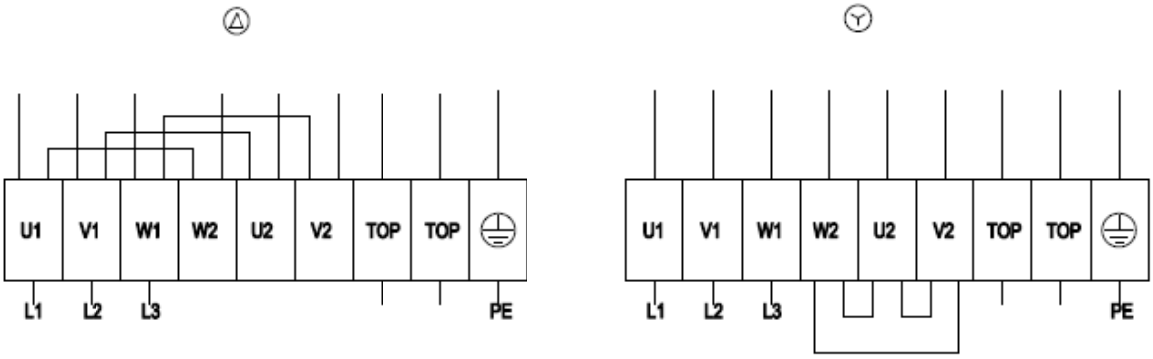


Diagram

IDNO	Type	U [V]	f [Hz]	C [uF]	Uc [V]	PWM [%]	Layout	Inst. cat.	Line	Remark
157036	A6D650GA01XA-01C	400	50		0		Y	A		



Connection screen



Note: Direction of rotation changes when two phases are reversed

Δ	Delta-connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green / yellow				