

Author: G. REZOHIER

Date of the revision 2021-11-16: Replacement with a stapled scroll

RANGE: Double inlet centrifugal fans with three phases motor

OEP	8246	Test	LD45Cc	Customer	ECOFIT
		Winding	Y01	Reference	
Drawing of the product	BIS_K16-A1-3_l=d.pdf			Designation	2GDFut65 146x180L



ELECTRICAL DATA

Speed					Speed
Tension (V)	400	480	400	440	Tension (V)
Frequency (Hz)	60	60	50	50	Frequency (Hz)
Current (A)	0.66	0.66	0.62	0.56	Current (A)
Maximum current (A)	0.99	0.73	0.81	0.62	Maximum current (A)
Power (W)	372	440	379	328	Power
Maximum power (W)	561	710	468	513	Maximum power (W)
Rotation (RPM)	2842	3030	2390	2585	Rotation (RPM)
Cos Φ	0.814	0.802	0.882	0.769	Cos Φ
Temperature min/max (°C)	-40/+60	-40/+60	-40/+60	-40/+60	Temperature min/max (°C)
Comments	calé à 450Pa	calé à 500Pa	calé à 255Pa	calé à 350Pa	Comments

Winding temperature cold (Temperature at 20°C, tolerances 7%)

1	2	3
36.0 Ohm	38.0 Ohm	40.0 Ohm

Temperature variation (110% of the voltage)

F (Hz)	Average elevation (°K)	Speed
60 Hz	95 °K	
60 Hz	92 °K	
50 Hz	96 °K	
50 Hz	95 °K	

Dielectric strength 2500 VAC 60 seconds

Direction of rotation CCW

MARKING & STANDARDS

Conformity

- **CE**
- **UL 2GT965M 1004 REC92 TriPhasé (PRGY2,8)**
File number E132643
- **CCC A041865 2GT965MCN**



The product is manufactured in accordance with EN 60335-1, UL1004, and RoHS directive 2015/863/CE
IP class according to EN 60034-5 to be checked with operation and installation

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TECHNICAL DATA

Description

- Weight: 6.28 kg
- Without Condensat Drain Holes
- Class F
- Protection level: 54 | Protection against ingress of dust / Protection against ingress of water : splashing
- Motor's protection TK150°C UL with 2 external leads
- Bearing type: (*) 2 sealed ball bearings 6001 2RSH
- Balance level: G2.5

Special features

- Construction : tightening torque 1.4Nm + marking of screws after tightening
- Labelle : Adding a land tag

Limiting conditions of operation

- Operation température (-10°C / +60°C)
- L10 @ 50 ° C @ 480V 50 / 60Hz is 48000Hours (HT ball bearings)
- Nominal airflow is 725 m³/h @ 400 Pa at 400V 50 Hz
- At 50Hz U .440V <=480V prohibited aera <350Pa
- At 50Hz U <=440V prohibited aera <255Pa
- At 60Hz .480V <u<=528V prohibited aera <500Pa
- At 60Hz U <=480V prohibited aera <450Pa

ADDITIONAL DATA

Documentations

- Operating and recycling manual
<http://www.ecofit.com/anglais/normes>

Measurement setup

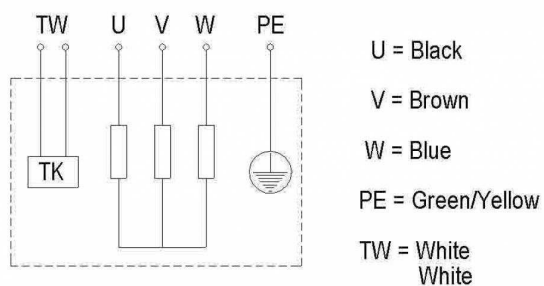
- Scroll 15278 VOL VHD232 H18

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CONNECTORS

Wiring diagram



ERP DATA

Data according to ErP directive

Tension	400 V
Frequency	50 Hz
Power ¹	0.218 kW
Airflow ¹	600 m3/h
Pressure ¹	461 Pa
Rotation ¹	2708 RPM
Catégorie de mesure	A
Catégorie de rendement	total
Variateur de vitesse	No
Rapport spécifique	1.00

- Designed for standard applications according to the directive EU 2009/125/EC

	Actual	2015
Rendement global	35.2	33.5
Niveau de rendement	46	44

¹ at optimum energy efficiency point

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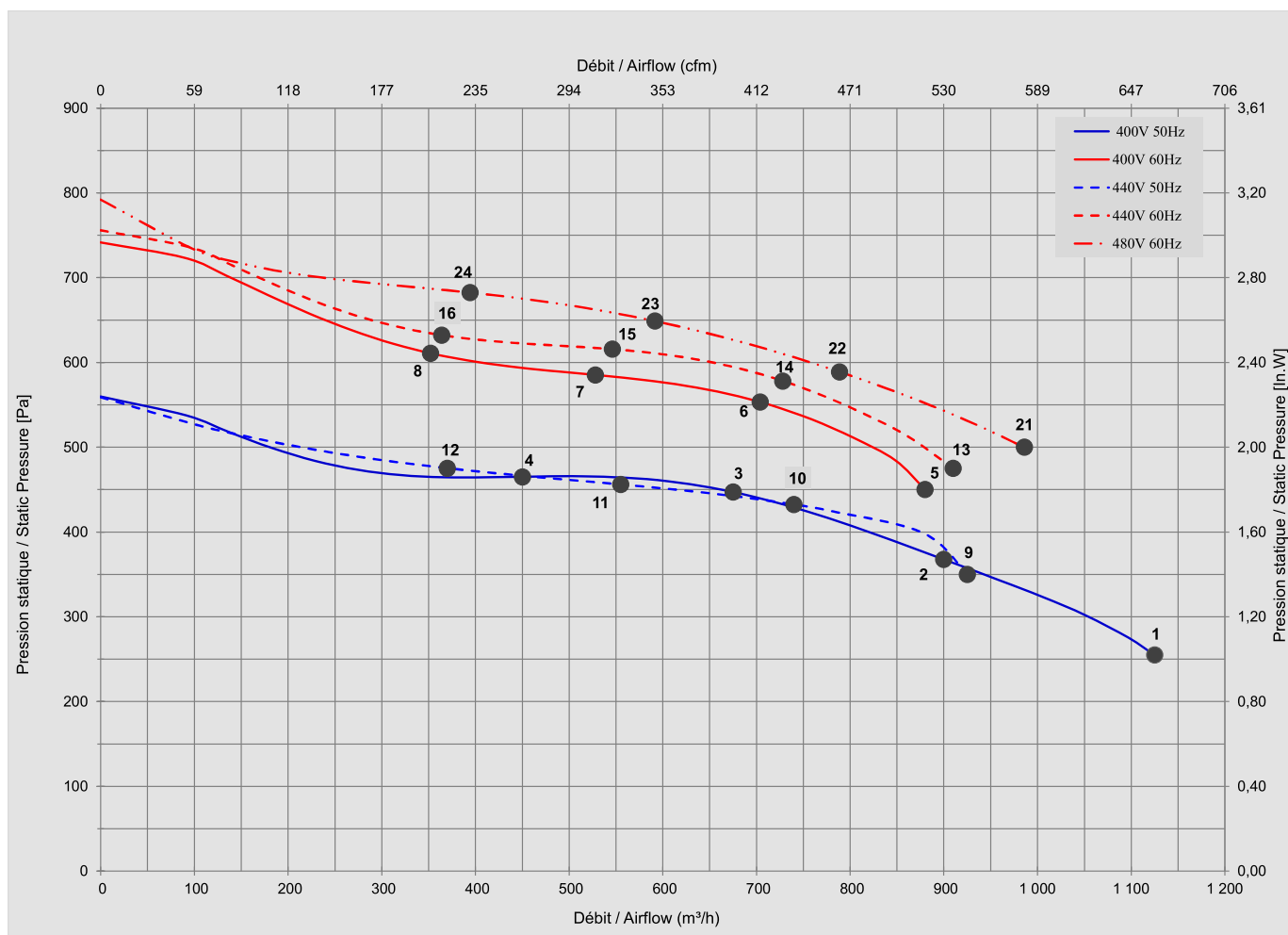
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TECHNICAL DATA



Mesures / Measured Values*

	Un (V)	C (µF)	F (Hz)	P (W)	n (RPM)	Q (m³/h)	P (Pa)	Q (cfm)	P (In.W)	Lp _{in} (dBA)
1	400	0	50	372	2842	1 125	255	662	1,022	
2	400	0	50	291	2562	900	368	530	1,473	
3	400	0	50	229	2673	675	447	397	1,791	
4	400	0	50	186	2768	450	465	265	1,864	
5	400	0	60	379	2390	880	450	518	1,803	
6	400	0	60	313	2984	704	553	414	2,217	
7	400	0	60	260	3101	528	585	311	2,345	
8	400	0	60	211	3215	352	611	207	2,447	
9	440	0	50	328	2585	925	350	544	1,402	
10	440	0	50	264	2685	740	432	436	1,732	
11	440	0	50	213	2764	555	456	327	1,827	
12	440	0	50	169	2826	370	475	218	1,904	
13	440	0	60	81	740	910	475	536	1,903	
14	440	0	60	343	3070	728	578	429	2,316	
15	440	0	60	285	3172	546	616	321	2,467	
16	440	0	60	232	3242	364	632	214	2,533	
21	480	0	60	458	485	986	500	580	2,003	
22	480	0	60	363	3156	789	589	464	2,359	
23	480	0	60	295	3247	592	649	348	2,599	
24	480	0	60	245	3299	394	682	232	2,734	

* Air performance measured according to: ISO 5801, installation category C.

Intake-side sound level: according to ISO 3744, LpA measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation

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