

Date: 11.06.2006

Customer: ebm-papst Inc.

Project No:

Part No: 55442.65210

Model No: QLK45/2424A21-3045L-135 DM

Item: QLK45/2424-3045L

Enclosures:

- | | |
|------------------------|--------------------|
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| x Dimensional Drawing | Photograph |
| x Wiring Diagram | |
| x Performance Data | |
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Design Specification

Part No: 55442.65210

General –

Allowable temperature:	-15° C (5° F) to +70° C (158° F) [Motor ambient – storage] -15° C (5° F) to +60° C (140° F) [Motor ambient – operation] -15° C (5° F) to +80° C (176° F) [Inlet medium – operation]
Allowable fan static pressure:	0 Pa (0 in. wg) to 90 Pa (0.36 in. wg)
Relative humidity:	0% to 85% (non-condensing)
Mounting position:	Horizontal shaft – discharge at 0°, 90°, 180°, and 270°
Weight:	2.4 kg (5.2 lbs)
Packaging:	Bulk packed, palletized, 100 pc/skid

Electrical Rating –

Voltage:	115 V
Frequency:	60 Hz
Power:	80W

Mechanical –

Dimensional data:	See attachment (drawing no. 55442.65210)
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Motor –

Design:	Shaded Pole Motor
Type:	EM3045L
Rotor diameter:	30 mm
Stack height:	45 mm
Winding layout:	See attachment (Summary of Construction Details)
No. of speeds:	1
Insulation class:	B
Protection:	Thermally protected (auto reset), opens @ 130° C +/- 5° C
Bearing type:	(2) sleeve bearings, long life
Cooling fan:	No
Speed sensor:	No
AC Main Switching:	Yes

Design Specification (continued)**Part No: 55442.65210**

Drive Electronics –

Wiring:	See attachment (drawing no. 55442.65210)
Connections:	6.3 mm x 0.8 mm male spade terminal
Protection class:	IP00

Housing –

Material:	Zinc coated steel
Thickness:	1 mm

Impeller –

Type:	Tangential
Size:	2 each @ 45 mm diameter x 240 mm length
Material:	Aluminum
Hub connection:	Silicone rubber, square drive

Safety Approvals –

Type:	UR Motor Recognition, UL File No. E93662 CSA Motor Certification, CSA File No. 52059
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Marking –

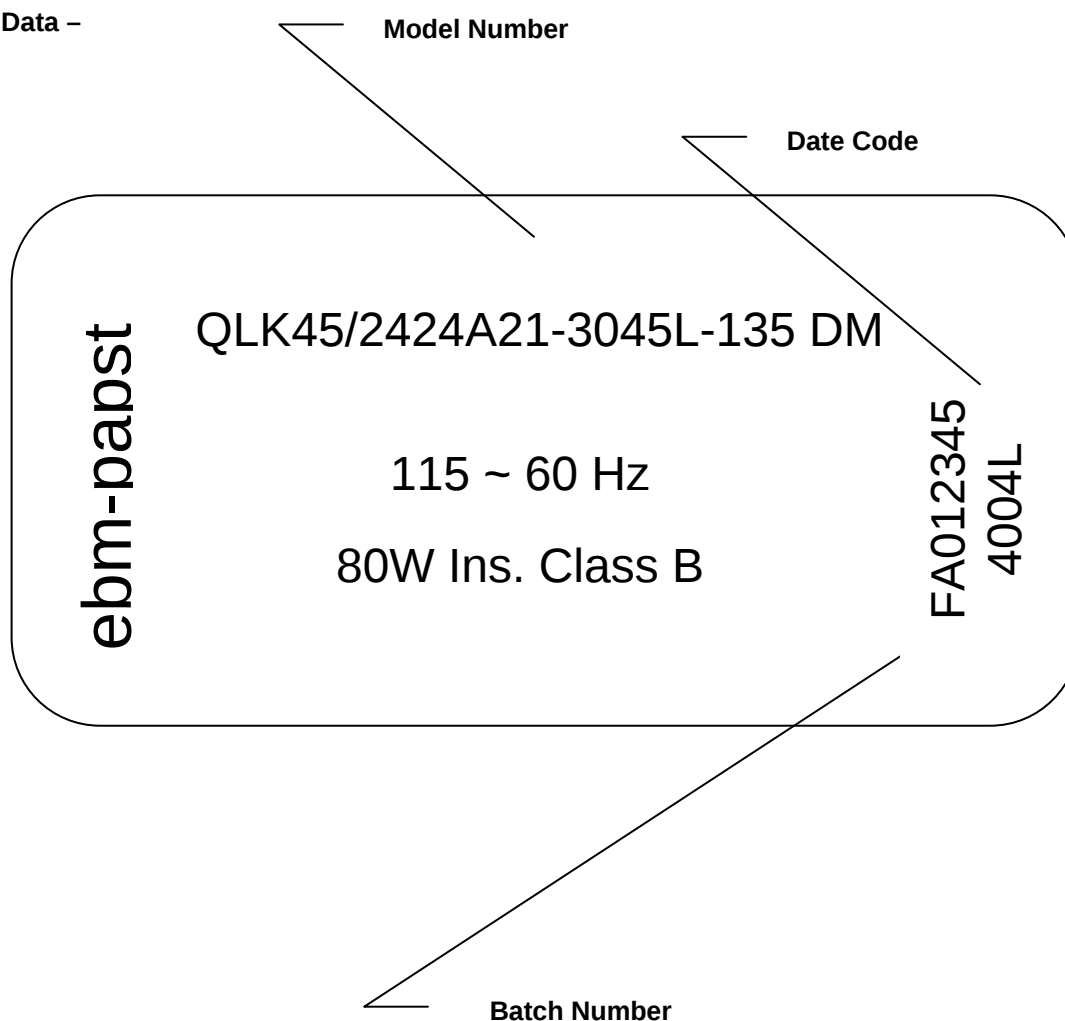
Product label:	Located on back of scroll housing, includes company name, model number, rated voltage, frequency, power, insulation class, date of manufacture, and production batch number (reference attachment).
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Design Specification (continued)

Part No: 55442.65210

Alterations –

ebm-papst reserves the right to make changes and technical improvements without influence on dimensional or performance specifications. Any other modifications can be introduced only after written mutual agreement between both parties.

Marking Data –**Example of Product Label****(General Layout)**

Revision History		Part No: 55442.65210
<u>Date</u>	<u>Product release description and changes</u>	<u>Production Status</u>
03.22.06	Initial release of production part number 55442.65210	Active

Landshut, 06.11.06
ebm-papst/ Bu

Summary of Construction Details

of the shaded pole motor EM3045L-135 dm -11
for the cross flow blower QLK45/2424A21-3045L-135 dm

- 1 Manufacturer** ebm-papst Landshut GmbH
- 2 Motortype** EM3045L-135 dm -11
- 3 Nominal voltage/frequency** 115V 60Hz
- 4 Number of poles/rated speed** 2 / 2450 1/min at free air

5 Coil data

Number of turns per coil:	535
Diameter of wire:	0,500 mm
DC-resistance:	6,8 Ω $\pm$ 10 %

6 Insulation materials according to insulation class: B / UL (E93287) und B / EN60335-1

7 Coil wire

in compliance with DIN IEC 317-20, temperature index TI 155 ANSI - Class MW 79
grade 1 with a sole coating based on modified polyurethane.

8 Coil bandage

Fiberglass insulating tape I.CL. B
No. 4616-00 (51) (Intertape Polymer Group) UL Nr. E20780 or
SCOTCH 27 (3M, Deutschland GmbH) UL Nr. E17385

9 Bobbin

Thermoplastic polyester PET, reinforced with 30% glass-fiber, flammability class UL94V-0.
Trade mark: Rynite FR 530 L (Fa. Dupont, D) UL-No. E 69578 (M) CSA-No. LS 66311

10 Thermal protector

Cut-off temperature: $130 \pm 5^{\circ}\text{C}$
Type: SK1 (Fa. Thermik, D) according to VDE 0631 and UL 547.
Approvals: UL-No. E 54236 CSA-No. 155016 VDE-No. 40004722
BEAB-No. C0832 SEMKO-No. 93-15105



