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## Nominal data

|                               |                   |      |      |
|-------------------------------|-------------------|------|------|
| Type                          | A4D630-AR01-01    |      |      |
| Motor                         | M4D110-IA         |      |      |
| Phase                         |                   | 3~   | 3~   |
| Nominal voltage               | VAC               | 400  | 400  |
| Connection                    |                   | Δ    | Y    |
| Frequency                     | Hz                | 50   | 50   |
| Type of data definition       |                   | ml   | ml   |
| Valid for approval / standard |                   | CE   | CE   |
| Speed                         | min <sup>-1</sup> | 1330 | 1070 |
| Power input                   | W                 | 1250 | 840  |
| Current draw                  | A                 | 2.48 | 1.42 |
| Max. back pressure            | Pa                | 150  | 100  |
| Min. ambient temperature      | °C                | -40  | -40  |
| Max. ambient temperature      | °C                | 55   | 55   |
| Starting current              | A                 | 10   |      |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

## Data according to ErP directive

|                       |        |
|-----------------------|--------|
| Installation category | A      |
| Efficiency category   | Static |
| Variable speed drive  | No     |
| Specific ratio*       | 1.00   |

\* Specific ratio =  $1 + p_{fs} / 100\,000\text{ Pa}$

|                                | Actual            | Request 2013 | Request 2015 |
|--------------------------------|-------------------|--------------|--------------|
| Overall efficiency $\eta_{es}$ | 37.9              | 30.5         | 34.5         |
| Efficiency grade N             | 43.4              | 36           | 40           |
| Power input $P_e$              | kW                | 1.35         |              |
| Air flow $q_v$                 | m <sup>3</sup> /h | 8830         |              |
| Pressure increase $p_{fs}$     | Pa                | 210          |              |
| Speed n                        | min <sup>-1</sup> | 1310         |              |

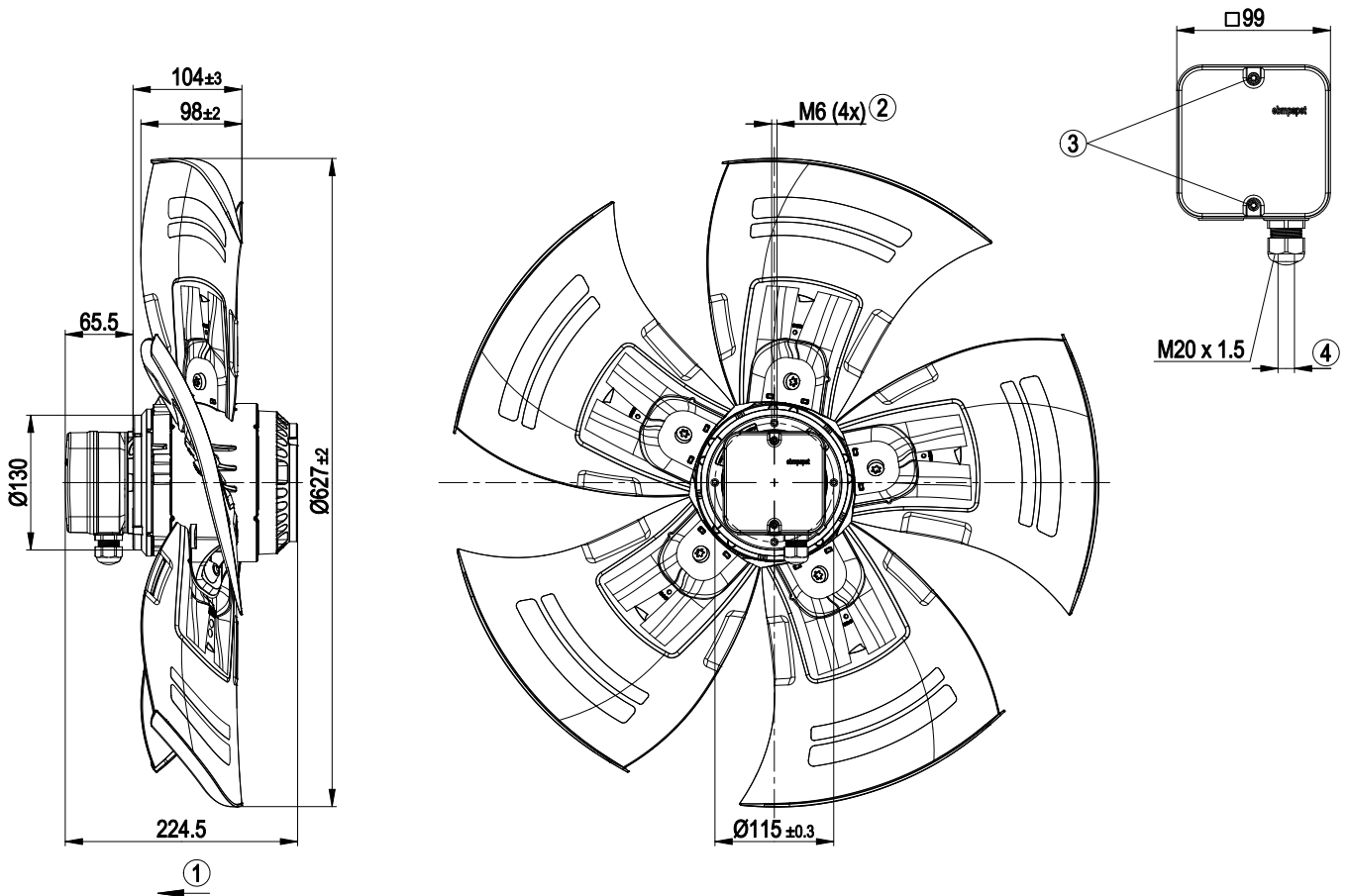
Data established at point of optimum efficiency



## Technical features

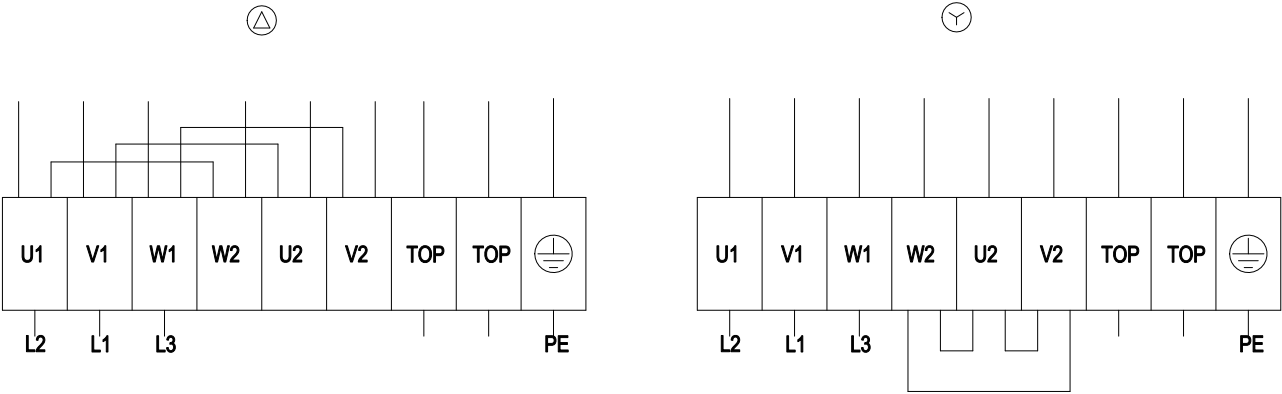
|                                                                    |                                                              |
|--------------------------------------------------------------------|--------------------------------------------------------------|
| Mass                                                               | 12.2 kg                                                      |
| Size                                                               | 630 mm                                                       |
| Surface of rotor                                                   | Cast in aluminium                                            |
| Material of terminal box                                           | PP plastic                                                   |
| Material of blades                                                 | Aluminium sheet insert, sprayed with PP plastic              |
| Number of blades                                                   | 5                                                            |
| Blade angle                                                        | -10°                                                         |
| Direction of air flow                                              | "V"                                                          |
| Direction of rotation                                              | Counter-clockwise, seen on rotor                             |
| Type of protection                                                 | IP 54                                                        |
| Insulation class                                                   | "F"                                                          |
| Humidity class                                                     | F3-1                                                         |
| Max. permissible ambient motor temp. (transp./ storage)            | + 80 °C                                                      |
| Min. permissible ambient motor temp. (transp./storage)             | - 40 °C                                                      |
| Mounting position                                                  | Shaft horizontal or rotor on bottom; rotor on top on request |
| Condensate discharge holes                                         | Rotor-side                                                   |
| Operation mode                                                     | S1                                                           |
| Motor bearing                                                      | Ball bearing                                                 |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | <= 3.5 mA                                                    |
| Electrical leads                                                   | Via terminal box                                             |
| Motor protection                                                   | Thermal overload protector (TOP) brought out                 |
| Cable exit                                                         | Axial                                                        |
| Protection class                                                   | I (if protective earth is connected by customer)             |
| Product conforming to standard                                     | EN 61800-5-1; CE                                             |
| Approval                                                           | GOST; VDE; CCC                                               |

## Product drawing



|   |                                                                          |
|---|--------------------------------------------------------------------------|
| 1 | Direction of air flow "V"                                                |
| 2 | Screw depth max. 12 mm                                                   |
| 3 | Tightening torque $1.5 \pm 0.2$ Nm                                       |
| 4 | Cable diameter: min. 6 mm, max. 12 mm; tightening torque: $2 \pm 0.3$ Nm |

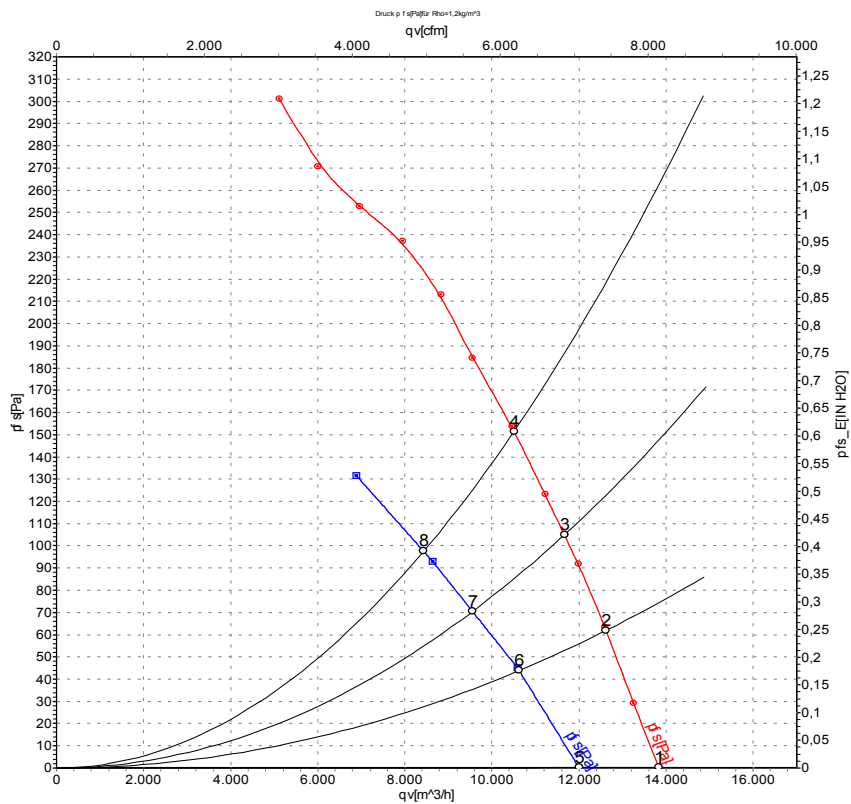
Connection screen



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



## Charts: Air flow 50 Hz



Measurement: LU-107579  
Measurement: LU-107929

Air performance measured as per ISO 5801  
Installation category A. For detailed  
information on the measuring set-up, please  
contact ebm-papst. Suction-side noise  
levels: LwA measured as per ISO 13347 /  
LpA measured with 1m distance to fan axis.  
The values given are valid under the  
measuring conditions mentioned above and  
may vary according to the actual installation  
situation. With any deviation from the  
standard set-up, the specific values have to  
be checked and reviewed with the unit  
installed.

## Measured values

|   | Conn. | U   | f  | n                 | P <sub>e</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | LwA <sub>out</sub> | qv    | p <sub>fs</sub> |
|---|-------|-----|----|-------------------|----------------|------|-------------------|-------------------|--------------------|-------|-----------------|
|   |       | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | dB(A)              | m³/h  | Pa              |
| 1 | Δ     | 400 | 50 | 1395              | 882            | 2.06 | 73                | 79                | 79                 | 13830 | 0               |
| 2 | Δ     | 400 | 50 | 1370              | 1031           | 2.21 | 70                | 77                | 76                 | 12620 | 62              |
| 3 | Δ     | 400 | 50 | 1355              | 1136           | 2.32 | 68                | 75                | 75                 | 11660 | 105             |
| 4 | Δ     | 400 | 50 | 1330              | 1250           | 2.48 | 69                | 75                | 75                 | 10500 | 150             |
| 5 | Y     | 400 | 50 | 1205              | 660            | 1.12 | 69                | 76                | 75                 | 12000 | 0               |
| 6 | Y     | 400 | 50 | 1140              | 735            | 1.23 | 66                | 72                | 72                 | 10620 | 44              |
| 7 | Y     | 400 | 50 | 1105              | 780            | 1.31 | 64                | 71                | 70                 | 9555  | 70              |
| 8 | Y     | 400 | 50 | 1070              | 840            | 1.42 | 63                | 70                | 69                 | 8430  | 100             |

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side  
LwA<sub>out</sub> = Sound power level outlet side · qv = Air flow · p<sub>fs</sub> = Pressure increase