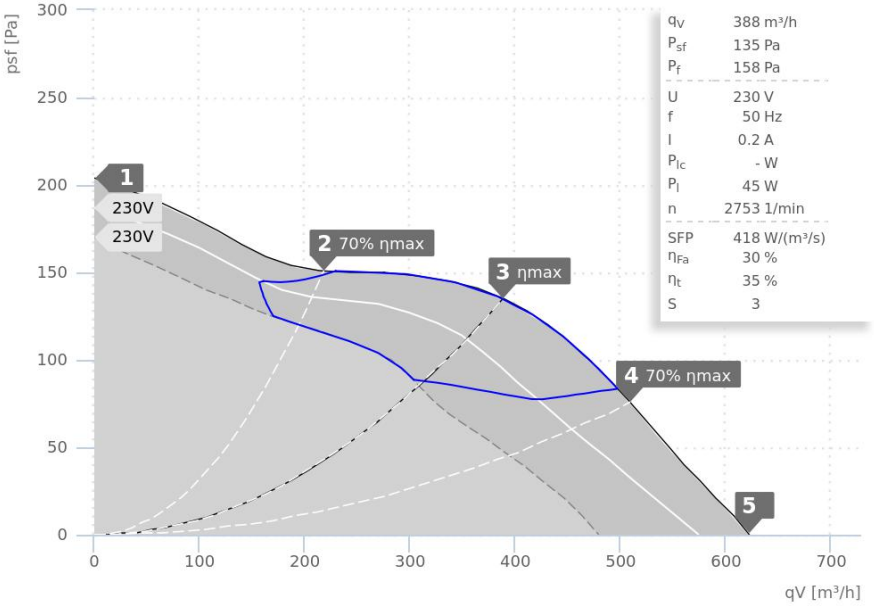
# DATA SHEET

## EMI 150 E2M 25W O 01 | 158059



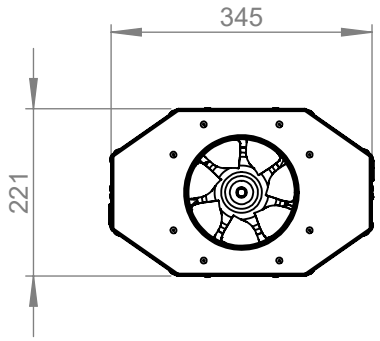

— **ErP compliant range**

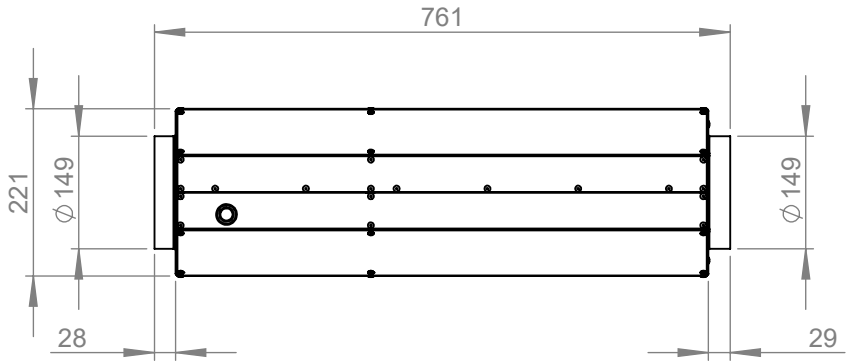
- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

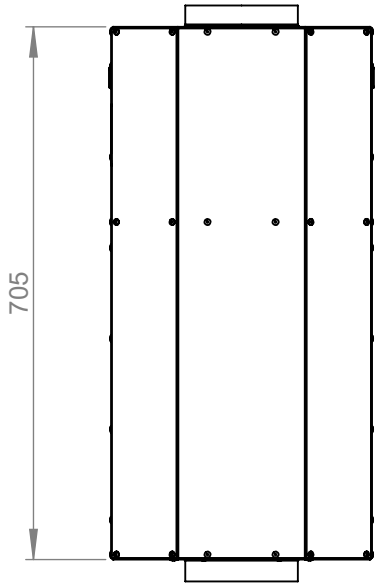
| Operating Point | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| **Current I** | A | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| **Power consumption $P_1$** | W | 40 | 41 | 45 | 47 | 45 |
| **Rotation speed n** | 1/min | 2839 | 2818 | 2753 | 2749 | 2785 |
| **SWL inlet $L_{WA5}$** | dB(A) | 53 | 51 | 49 | 49 | 50 |
| **SWL outlet $L_{WA6}$** | dB(A) | 65 | 65 | 67 | 67 | 68 |
| **SWL housing break out $L_{WA2}$** | dB(A) | 56 | 56 | 57 | 58 | 60 |

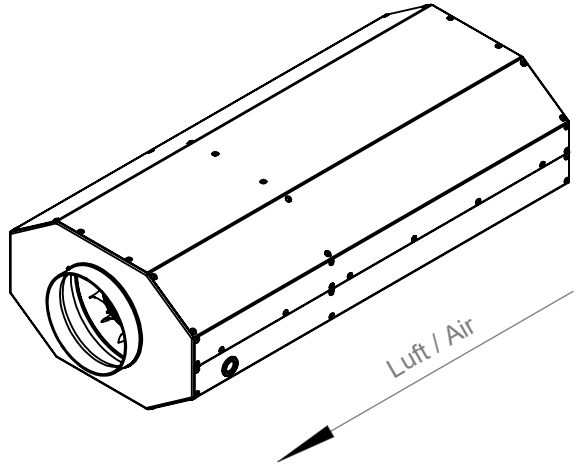
| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 49 | 31 | 37 | 43 | 45 | 39 | 34 | 34 | 31 |
| **Outlet** | $L_{WA6}$ | 67 | 32 | 47 | 57 | 61 | 62 | 58 | 56 | 47 |
| **Housing radiation** | $L_{WA2}$ | 57 | 32 | 35 | 46 | 54 | 53 | 40 | 30 | 19 |

| **EMI 150 E2M 25W O 01 \| 158059** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 0,2 A |
| **Ambient temperature $t_A$** | 60 °C |
| **Conveyed medium temperature $t_M$** | 60 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 10,2 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |




ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

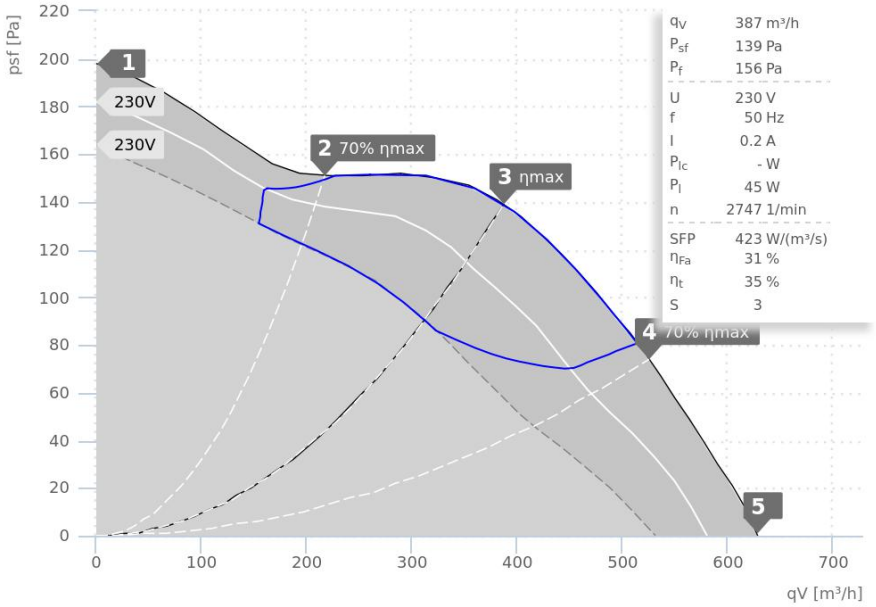
| | | |
|---|---|---|
| Created | d.hancu | 11.05.2021 |
| Drawn | d.hancu | 11.05.2021 |
| Released | d.hancu | 15.06.2021 |
| Disabled | | |

**EMI150E2MO-01**

**158059 00**

# DATA SHEET

## EMI 160 E2M 25W O 01 | 158109




— **ErP compliant range**

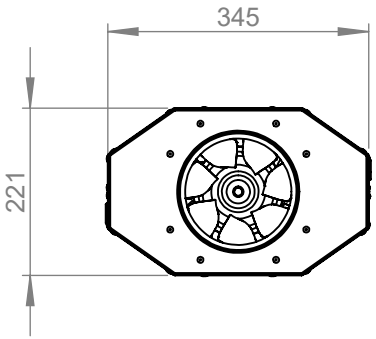
- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

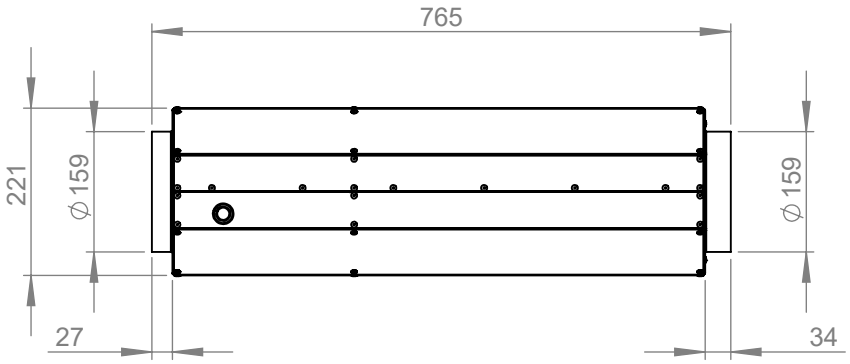
| | | Operating Point | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| **Current I** | A | | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| **Power consumption $P_1$** | W | | 40 | 40 | 45 | 47 | 44 |
| **Rotation speed n** | 1/min | | 2828 | 2813 | 2745 | 2735 | 2781 |
| **SWL inlet $L_{WA5}$** | dB(A) | | 55 | 51 | 49 | 49 | 50 |
| **SWL outlet $L_{WA6}$** | dB(A) | | 66 | 64 | 67 | 67 | 68 |
| **SWL housing break out $L_{WA2}$** | dB(A) | | 52 | 52 | 51 | 50 | 51 |

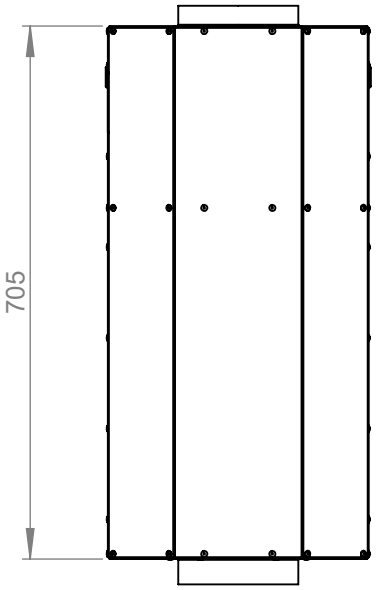
| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 49 | 34 | 40 | 42 | 44 | 38 | 32 | 37 | 33 |
| **Outlet** | $L_{WA6}$ | 67 | 27 | 45 | 57 | 61 | 62 | 60 | 58 | 49 |
| **Housing radiation** | $L_{WA2}$ | 51 | 27 | 34 | 43 | 47 | 44 | 42 | 33 | 22 |

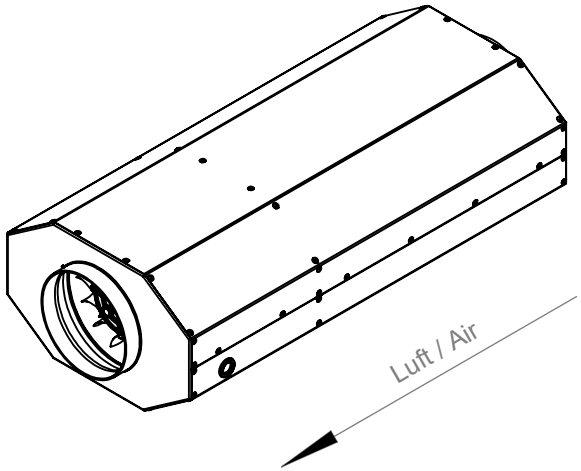
| **EMI 160 E2M 25W O 01 \| 158109** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 0,2 A |
| **Ambient temperature $t_A$** | 60 °C |
| **Conveyed medium temperature $t_M$** | 60 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 10,1 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

Print 28.04.2022




ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

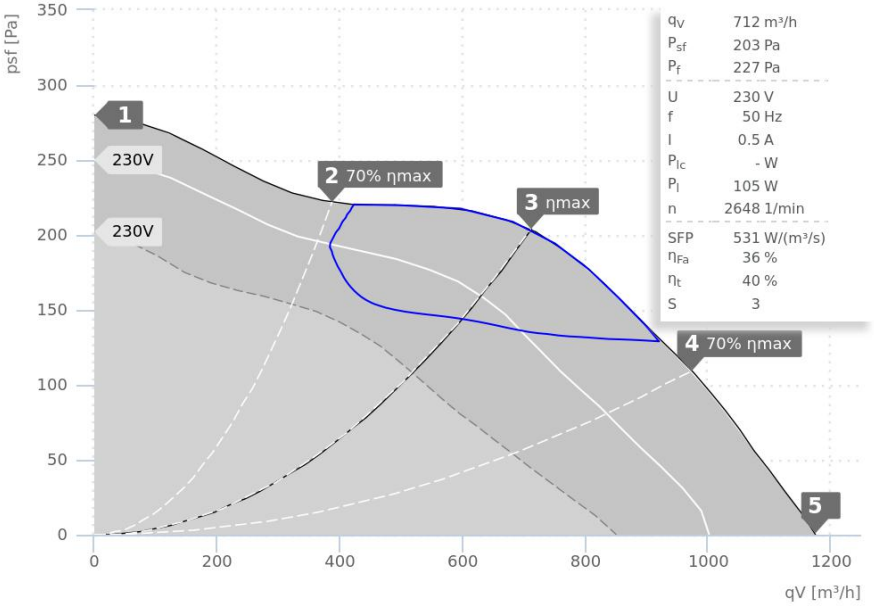
| | | |
|---|---|---|
| Created | d.hancu | 13.05.2021 |
| Drawn | d.hancu | 13.05.2021 |
| Released | d.hancu | 14.06.2021 |
| Disabled | | |

**EMI160E2MO-01**

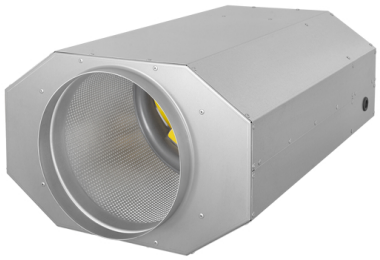
**158109 00**

# DATA SHEET

## EMI 200 E2M 50W O 01 | 158201




— **ErP compliant range**



- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

| | | Operating Point | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| **Current I** | A | | 0,4 | 0,4 | 0,5 | 0,5 | 0,5 |
| **Power consumption $P_1$** | W | | 87 | 89 | 105 | 111 | 103 |
| **Rotation speed n** | 1/min | | 2786 | 2771 | 2649 | 2613 | 2685 |
| **SWL inlet $L_{WA5}$** | dB(A) | | 59 | 59 | 59 | 59 | 60 |
| **SWL outlet $L_{WA6}$** | dB(A) | | 74 | 73 | 75 | 76 | 77 |
| **SWL housing break out $L_{WA2}$** | dB(A) | | 64 | 65 | 64 | 62 | 64 |

| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 59 | 39 | 51 | 53 | 55 | 48 | 44 | 47 | 40 |
| **Outlet** | $L_{WA6}$ | 75 | 42 | 57 | 66 | 70 | 71 | 66 | 62 | 52 |
| **Housing radiation** | $L_{WA2}$ | 64 | 39 | 48 | 62 | 60 | 47 | 45 | 40 | 28 |

| **EMI 200 E2M 50W O 01 \| 158201** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 0,5 A |
| **Ambient temperature $t_A$** | 60 °C |
| **Conveyed medium temperature $t_M$** | 60 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 13,6 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

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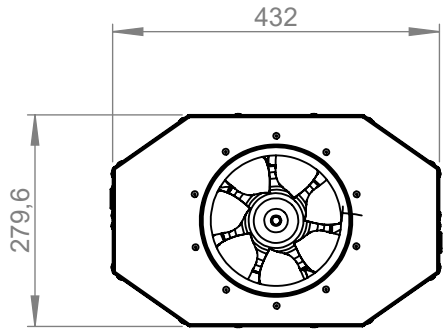
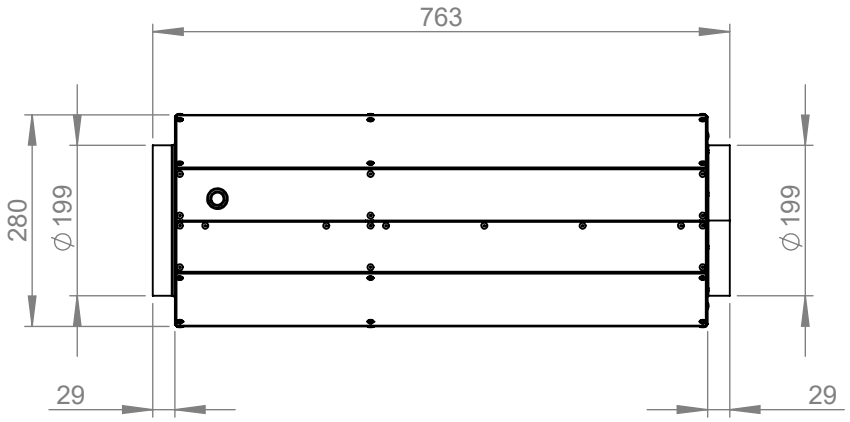
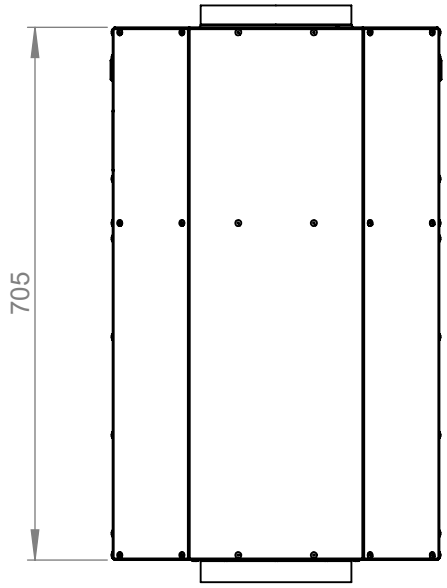
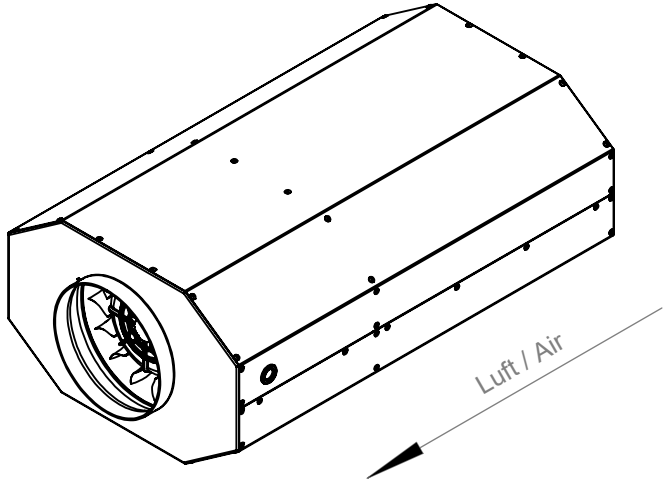



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

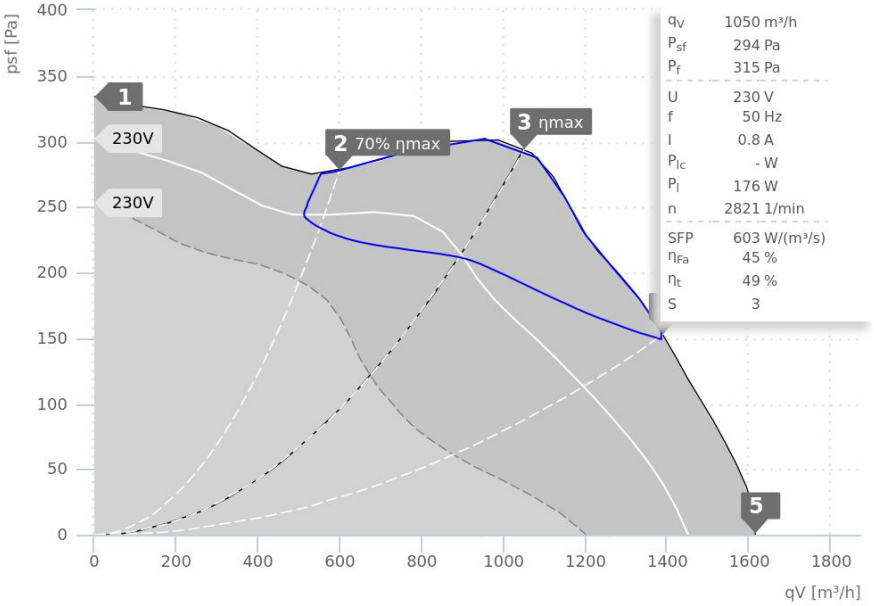
| | | |
|---|---|---|
| Created | d.hancu | 17.05.2021 |
| Drawn | d.hancu | 17.05.2021 |
| Released | d.hancu | 11.06.2021 |
| Disabled | | |

**EMI200E2MO-01**

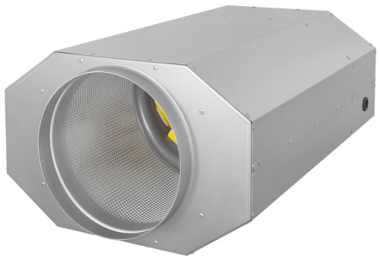
**158201 00**

# DATA SHEET

## EMI 250 E2M 100W O 01 | 158239




— **ErP compliant range**



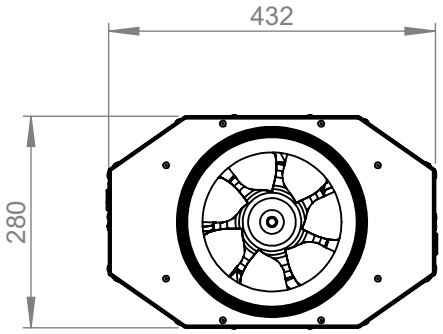
- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

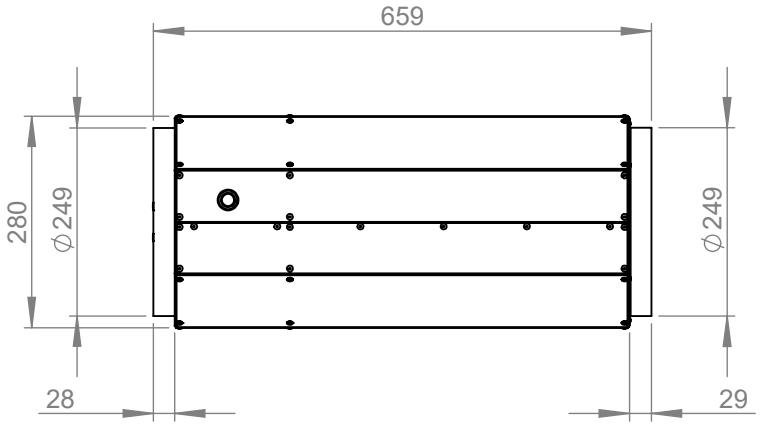
| | | Operating Point | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| **Current I** | | A | 0,6 | 0,6 | 0,8 | 0,8 | 0,7 |
| **Power consumption $P_1$** | | W | 128 | 137 | 176 | 173 | 157 |
| **Rotation speed n** | | 1/min | 2895 | 2874 | 2821 | 2826 | 2852 |
| **SWL inlet $L_{WA5}$** | | dB(A) | 66 | 67 | 67 | 63 | 65 |
| **SWL outlet $L_{WA6}$** | | dB(A) | 79 | 78 | 78 | 79 | 81 |
| **SWL housing break out $L_{WA2}$** | | dB(A) | 61 | 61 | 61 | 58 | 59 |

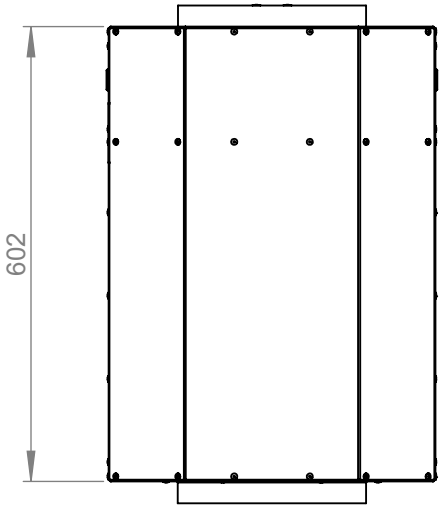
| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 67 | 51 | 65 | 57 | 58 | 54 | 50 | 50 | 41 |
| **Outlet** | $L_{WA6}$ | 78 | 51 | 62 | 65 | 71 | 74 | 72 | 63 | 55 |
| **Housing radiation** | $L_{WA2}$ | 61 | 54 | 57 | 52 | 51 | 48 | 48 | 46 | 33 |

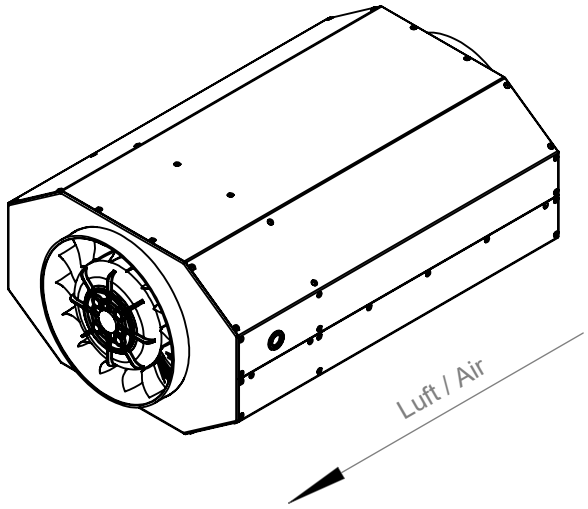
| **EMI 250 E2M 100W O 01 \| 158239** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 0,8 A |
| **Ambient temperature $t_A$** | 50 °C |
| **Conveyed medium temperature $t_M$** | 50 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 14,3 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

Print 28.04.2022




ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

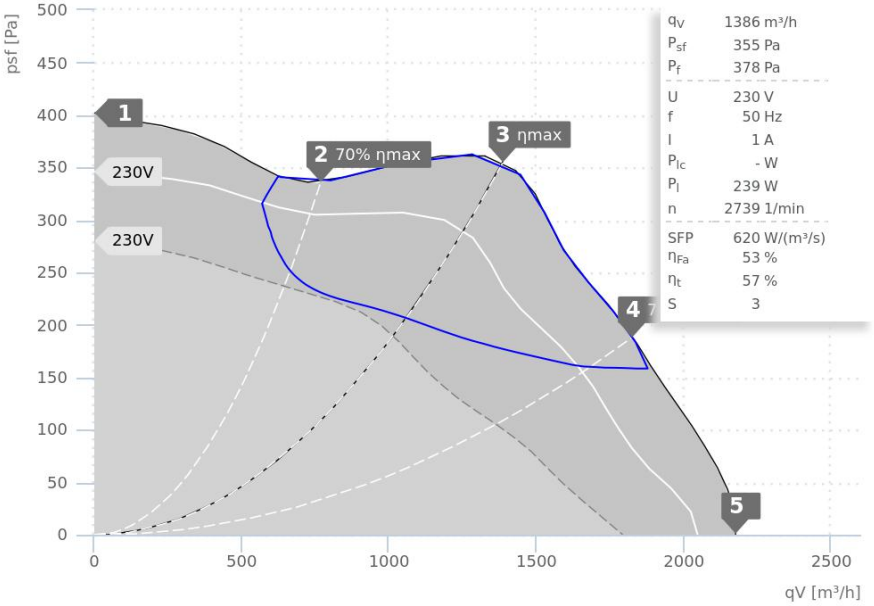
| | | |
|---|---|---|
| Created | d.hancu | 20.05.2021 |
| Drawn | d.hancu | 20.05.2021 |
| Released | d.hancu | 10.06.2021 |
| Disabled | | |

**EMI250E2MO-01**

**158239 00**

# DATA SHEET

## EMI 280 E2M 180W O 01 | 158271




— **ErP compliant range**

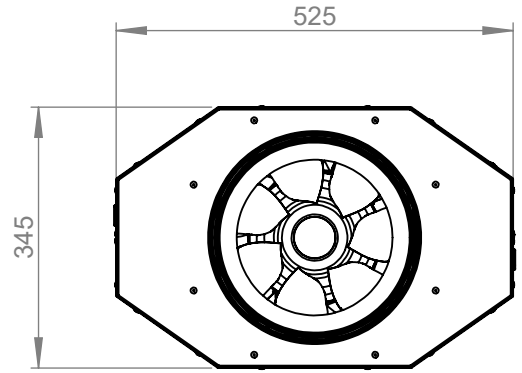
- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

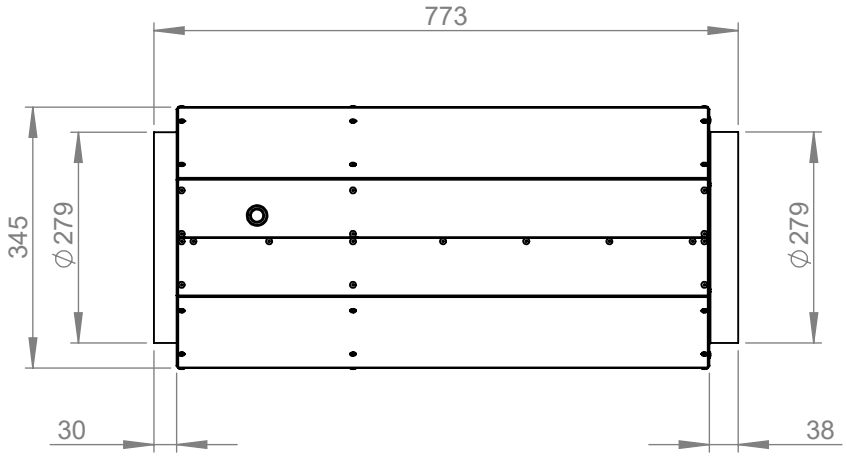
| | | Operating Point | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| **Current I** | | A | 0,7 | 0,8 | 1,0 | 1,0 | 1,0 |
| **Power consumption $P_1$** | | W | 167 | 181 | 239 | 238 | 219 |
| **Rotation speed n** | | 1/min | 2844 | 2818 | 2739 | 2743 | 2782 |
| **SWL inlet $L_{WA5}$** | | dB(A) | 68 | 69 | 65 | 65 | 68 |
| **SWL outlet $L_{WA6}$** | | dB(A) | 82 | 80 | 80 | 81 | 83 |
| **SWL housing break out $L_{WA2}$** | | dB(A) | 61 | 61 | 58 | 57 | 59 |

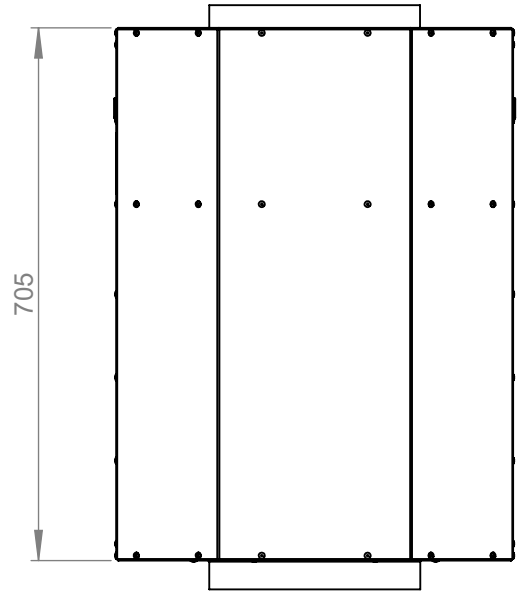
| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 65 | 41 | 51 | 58 | 58 | 56 | 56 | 57 | 51 |
| **Outlet** | $L_{WA6}$ | 80 | 41 | 56 | 68 | 73 | 76 | 73 | 69 | 61 |
| **Housing radiation** | $L_{WA2}$ | 58 | 40 | 47 | 52 | 49 | 50 | 49 | 48 | 36 |

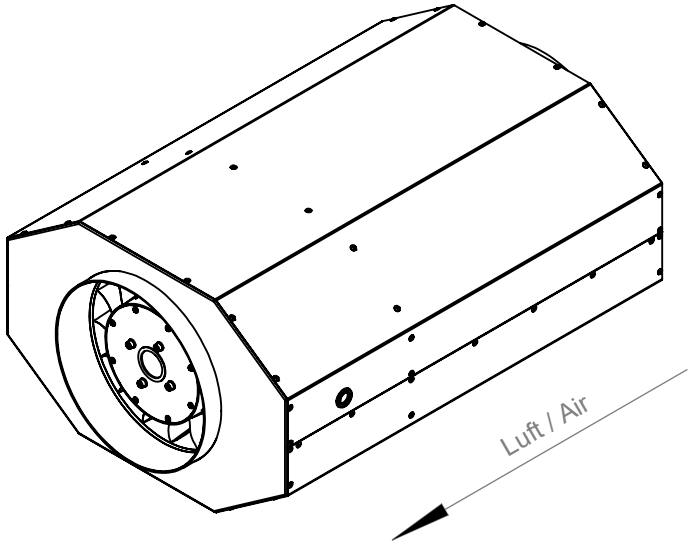
| **EMI 280 E2M 180W O 01 \| 158271** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 1,1 A |
| **Ambient temperature $t_A$** | 60 °C |
| **Conveyed medium temperature $t_M$** | 60 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 20,1 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

Print 28.04.2022




ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

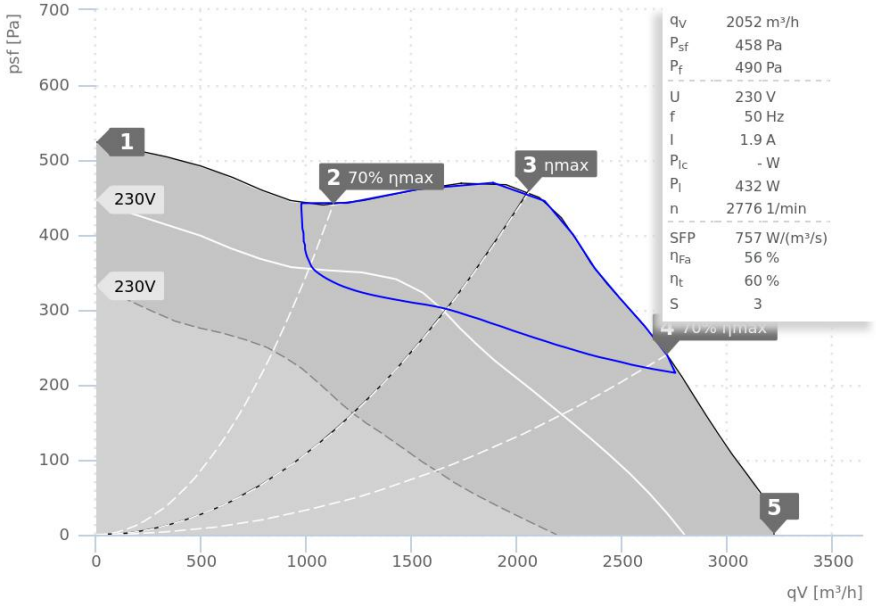
| | | |
|---|---|---|
| Created | d.hancu | 24.05.2021 |
| Drawn | d.hancu | 24.05.2021 |
| Released | d.hancu | 09.06.2021 |
| Disabled | | |

**EMI280E2MO-01**

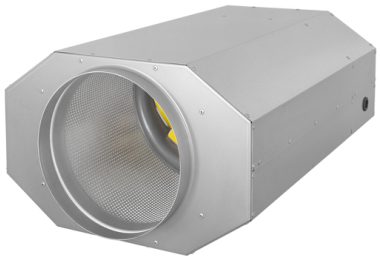
**158271 00**

# DATA SHEET

## EMI 315 E2M 350W O 01 | 158348




— **ErP compliant range**



- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

| | | Operating Point | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| **Current I** | | A | 1,4 | 1,6 | 1,9 | 1,9 | 1,8 |
| **Power consumption $P_1$** | | W | 300 | 328 | 432 | 425 | 381 |
| **Rotation speed n** | | 1/min | 2870 | 2845 | 2776 | 2786 | 2826 |
| **SWL inlet $L_{WA5}$** | | dB(A) | 73 | 73 | 72 | 71 | 73 |
| **SWL outlet $L_{WA6}$** | | dB(A) | 87 | 85 | 84 | 86 | 88 |
| **SWL housing break out $L_{WA2}$** | | dB(A) | 71 | 71 | 71 | 68 | 69 |

| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 72 | 57 | 66 | 63 | 62 | 60 | 61 | 61 | 52 |
| **Outlet** | $L_{WA6}$ | 84 | 50 | 64 | 72 | 79 | 80 | 77 | 72 | 63 |
| **Housing radiation** | $L_{WA2}$ | 71 | 49 | 61 | 68 | 58 | 64 | 52 | 50 | 40 |

| **EMI 315 E2M 350W O 01 \| 158348** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 2,1 A |
| **Ambient temperature $t_A$** | 55 °C |
| **Conveyed medium temperature $t_M$** | 55 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 23,7 kg |
| **Number of poles** | 2 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

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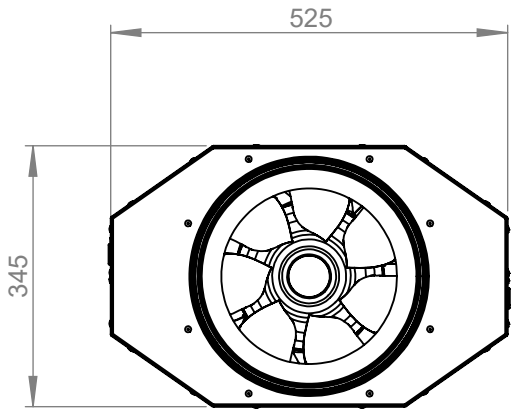
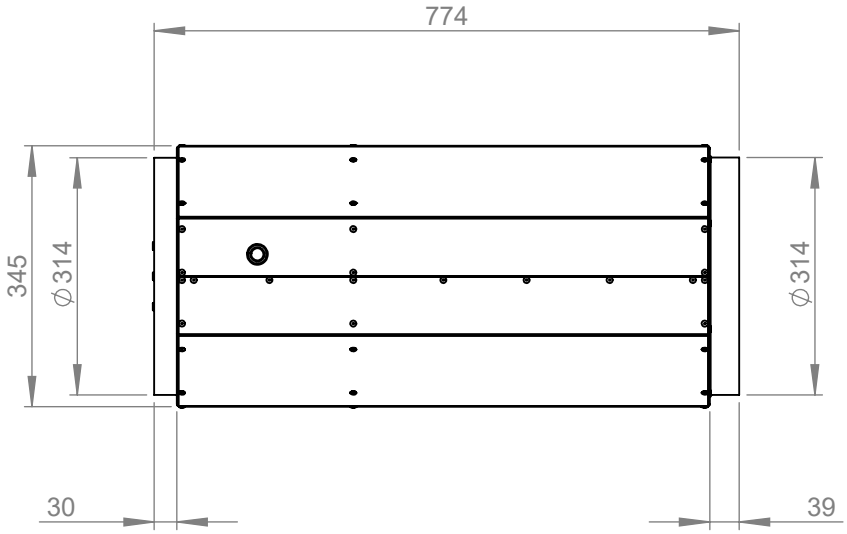
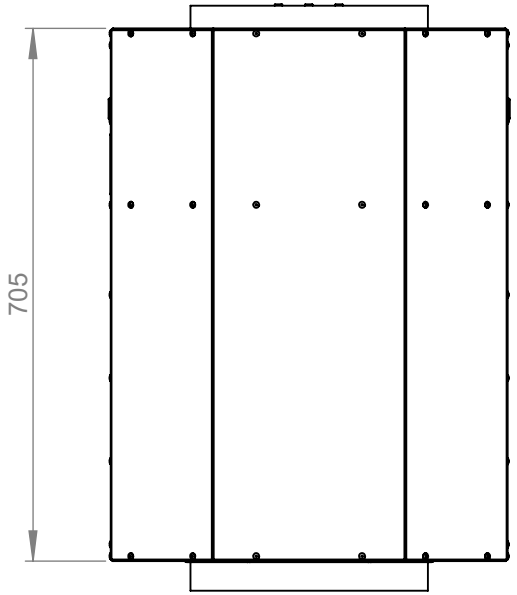
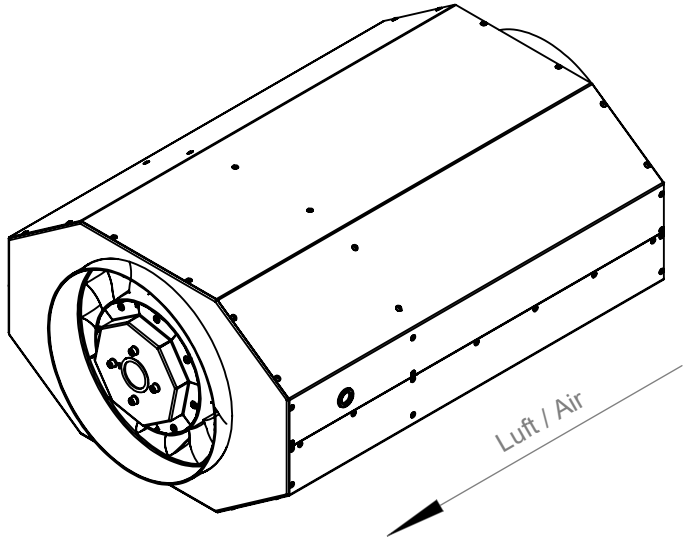



ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:10 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

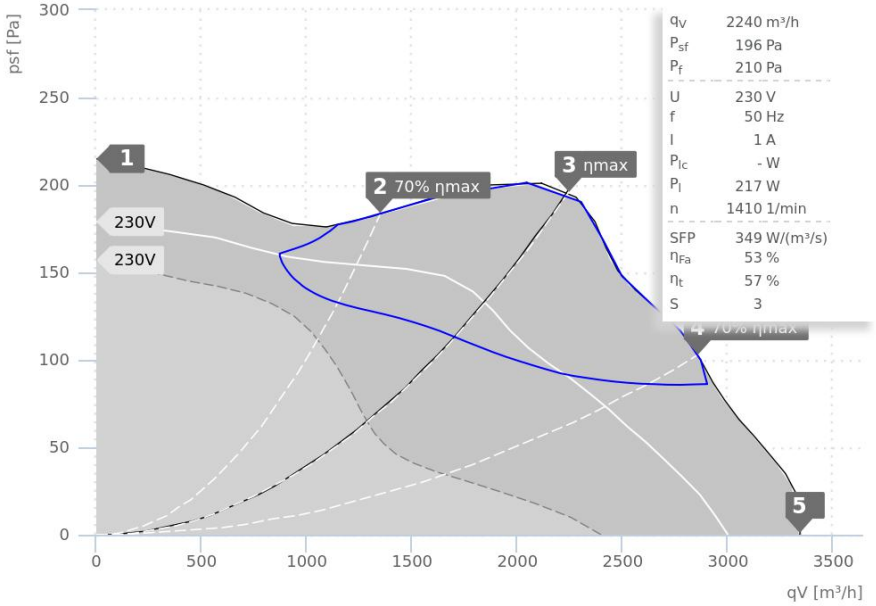
| | | |
|---|---|---|
| Created | d.hancu | 25.05.2021 |
| Drawn | d.hancu | 25.05.2021 |
| Released | d.hancu | 08.06.2021 |
| Disabled | | |

**EMI315E2MO-01**

**158348 00**

# DATA SHEET

## EMI 400 E4M 120W O 01 | 158001




— **ErP compliant range**

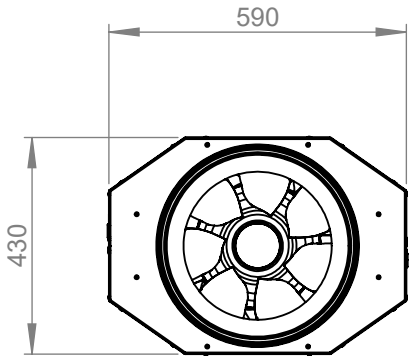
- 3-step controllable AC motor
- Galvanized sheet steel housing
- Optimized, very high sound insulation, through integrated suction-side silencer and sound insulation with mineral wool
- Compact design

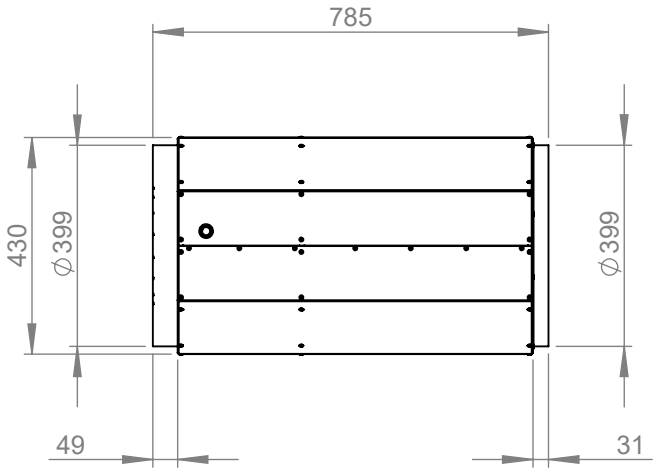
| Operating Point | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| **Current I** | A | 0,7 | 0,8 | 1,0 | 0,9 | 0,9 |
| **Power consumption $P_1$** | W | 161 | 179 | 217 | 209 | 195 |
| **Rotation speed n** | 1/min | 1443 | 1431 | 1410 | 1414 | 1426 |
| **SWL inlet $L_{WA5}$** | dB(A) | 66 | 64 | 63 | 64 | 67 |
| **SWL outlet $L_{WA6}$** | dB(A) | 77 | 75 | 74 | 75 | 78 |
| **SWL housing break out $L_{WA2}$** | dB(A) | 60 | 58 | 57 | 56 | 58 |

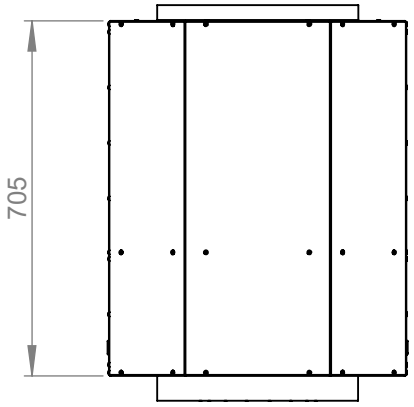
| Sound power ($L_W$) dB(A) | | Medium Frequency Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Σ** | **63** | **125** | **250** | **500** | **1k** | **2k** | **4k** | **8k** |
| **Inlet** | $L_{WA5}$ | 63 | 48 | 58 | 54 | 55 | 54 | 55 | 49 | 42 |
| **Outlet** | $L_{WA6}$ | 74 | 44 | 58 | 63 | 70 | 71 | 63 | 58 | 51 |
| **Housing radiation** | $L_{WA2}$ | 57 | 45 | 51 | 49 | 47 | 52 | 44 | 36 | 25 |

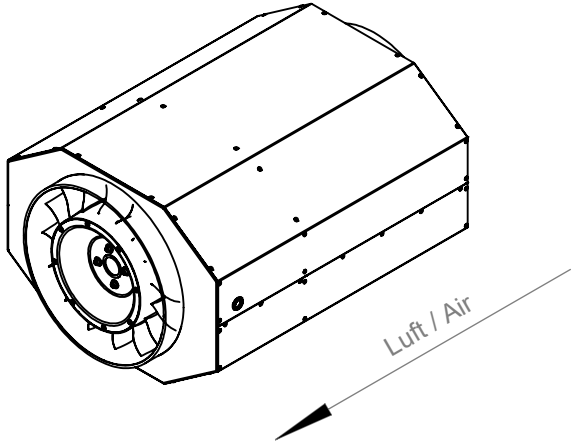
| **EMI 400 E4M 120W O 01 \| 158001** | |
|---|---|
| **Voltage $U_N$** | 230 V 1~ |
| **Current $I_{max}$** | 1,0 A |
| **Ambient temperature $t_A$** | 60 °C |
| **Conveyed medium temperature $t_M$** | 60 °C |
| **Speed Control** | 3-2-1 |
| **Motor protection** | TAI |
| **Insulation class motor** | F |
| **Weight** | 29,7 kg |
| **Number of poles** | 4 |
| **IP motor** | IP00 |
| **IP terminal box** | - |
| **IP complete unit** | - |
| **Min. operating temperature** | -25 °C |

Print 28.04.2022




ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:20 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

| | | |
|---|---|---|
| Created | d.hancu | 10.05.2021 |
| Drawn | d.hancu | 10.05.2021 |
| Released | d.hancu | 07.06.2021 |
| Disabled | | |

**EMI400E4MO-01**

**158001 00**