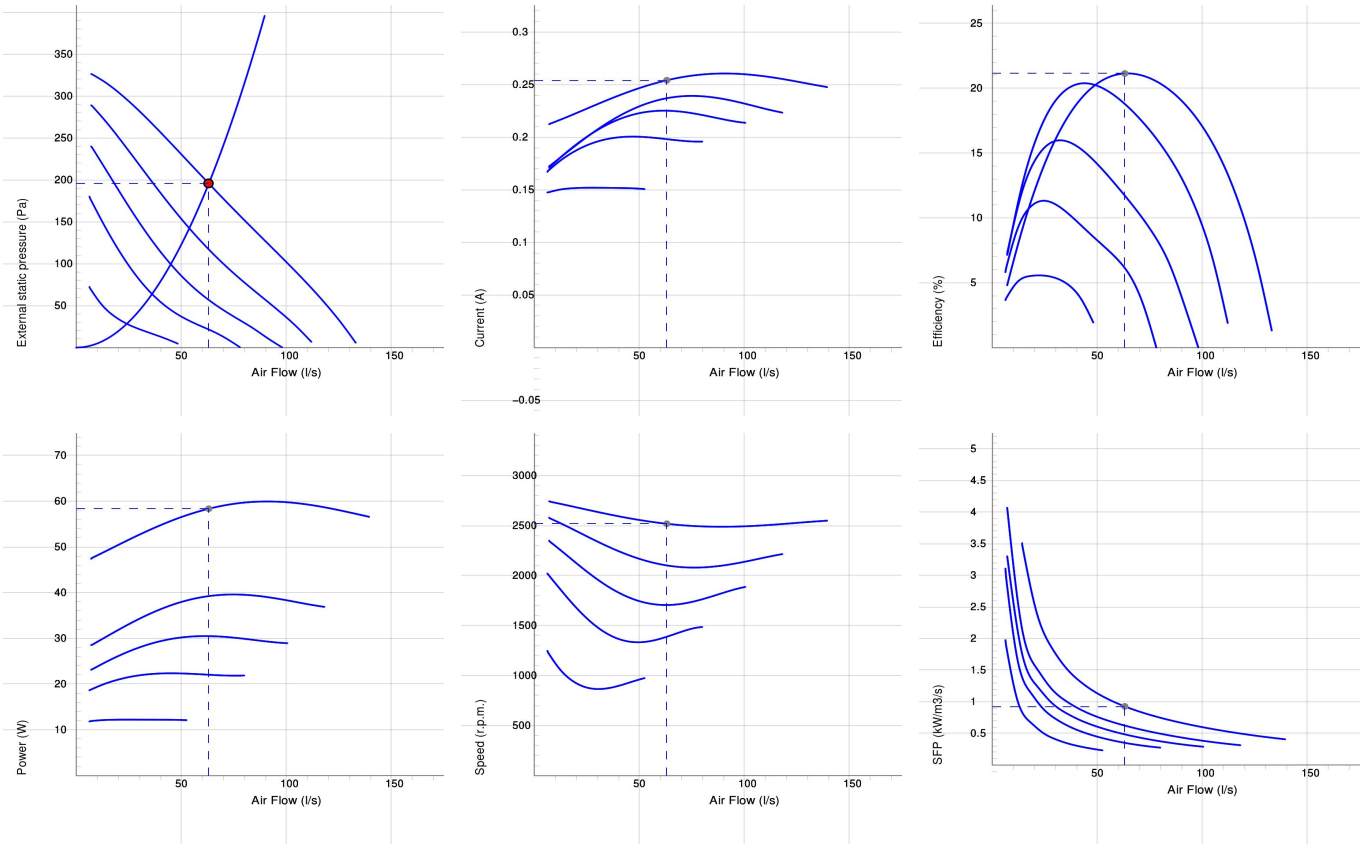
# CK 160 B



CK

- Duct fan with circular connections.
- Proven performance and reliability.
- Compact with high capacity and efficiency.
- Low sound levels.
- Operational in both 50 and 60 Hz.
- Impeller with backward curved blades.
- The external rotor motor has maintenance-free sealed ball-bearings and is very energy efficient.
- For speed control a transformer or electronic speed controller can be connected.
- Integrated motor protection.
- Junction box has enclosure class IP 54.
- Fan housing is manufactured from galvanized sheet steel.
- The fan is intended to be installed in a duct system.
- A duct connected fan can be installed outside or in damp environments.
- Easy installation in any position.
- To comply with the ErP 2018 regulation, a local demand controller must be used.

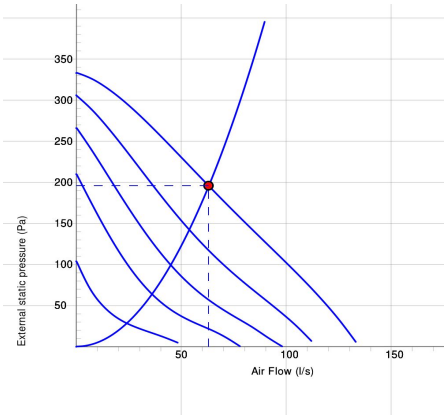
## DIAGRAMS




## Work Point

| Air Flow (l/s) | External static pressure (Pa) | Power (W) | Speed (r.p.m.) | Current (A) | Efficiency (%) | SFP (kW/m3/s) | Voltage (V) |
|---|---|---|---|---|---|---|---|
| 63 | 196 | 58.3 | 2518 | 0.254 | 21.1 | 0.926 | 230 |

## SOUND DATA




| | Tot | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|
| Inlet Lw dB(A) | 67 | 49 | 58 | 62 | 61 | 58 | 56 | 54 | 51 |
| Outlet Lw dB(A) | 66 | 48 | 58 | 61 | 60 | 58 | 55 | 54 | 48 |
| Surrounding Lw dB(A) | 45 | 22 | 26 | 42 | 35 | 40 | 35 | 32 | 28 |
| Surrounding Lp dB (A) 3m | 38 | 15 | 19 | 35 | 28 | 33 | 28 | 25 | 21 |

## Work Point

| Air Flow (l/s) | External static pressure (Pa) | Power (W) | Speed (r.p.m.) | Current (A) | Efficiency (%) | SFP (kW/m3/s) | Voltage (V) |
|---|---|---|---|---|---|---|---|
| 63 | 196 | 58.3 | 2518 | 0.254 | 21.1 | 0.926 | 230 |

## TECHNICAL DATA

| | CK 160 B man tp 7000009 | | CK 160 B aut tp 7000048 | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Value** | **Unit** |
| Voltage | 230 | V | 230 | V |
| Phase | 1 | ~ | 1 | ~ |
| Frequency | 50 | Hz | 50 | Hz |
| Optional frequency | 60 | Hz | 60 | Hz |
| Power | 60 | W | 60 | W |
| Current | 0.26 | A | 0.26 | A |
| Speed | 2490 | r.p.m. | 2490 | r.p.m. |
| Max. temperature of transported air | 80 | °C | 80 | °C |
| Max. temperature of transported air when speed controlled | 80 | °C | 80 | °C |
| Sound pressure level at 3 m | 39 | dB(A) | 39 | dB(A) |
| Weight | 2.9 | kg | 2.9 | kg |
| Enclosure class | 44 | IP | 44 | IP |
| Insulation class, motor | F | | F | |
| Capacitor | 2 | µF | 2 | µF |
| Duct connection | 160 | mm | 160 | mm |
| Max. flow | 135 | l/s | 135 | l/s |
| Max. pressure | 332 | Pa | 332 | Pa |
| Voltage range | 220-240 | V | 220-240 | V |

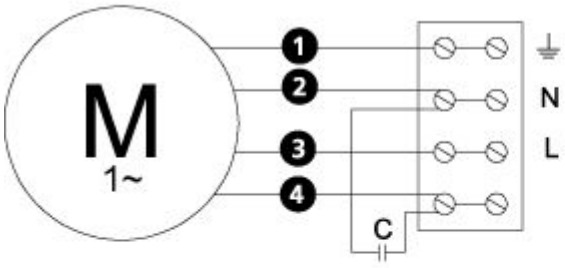
## ECODESIGN

| Parameter | Value | Unit |
|---|---|---|
| (a) Manufacturer | Östberg | - |
| (b) Model code | CK 160 B | - |
| (c) SEC value | -26.2 | kWh/m$^2$ |
| SEC class | B | - |
| (d) Declared type | RVU / UVU | - |
| (e) Type of drive | Multi-speed drive (accessory) | - |
| (f) Type of heat recovery | N/A | - |
| (g) Thermal efficiency | N/A | % |
| (h) Max. flow rate (@100Pa) | 363 | m$^3$/h |
| (i) Power at max. flow rate | 60 | W |
| (j) Sound power level | 46 | dB LwA |
| (k) Reference flow rate | 0.067 | m$^3$/s |
| (l) Reference pressure difference | 50 | Pa |
| (m) SPI | 0.13 | W/(m$^3$/h) |
| (n) Type of control | Local demand control (accessory) | - |
| (o) External (internal) leakage rate | 0.41 (N/A) | % |
| (p) Mixing rate | N/A | - |
| (q) Visual filter warning | N/A | - |
| (r) Instruction supply/exhaust grilles | See manual | - |
| (s) Disassembly instructions | www.ostberg.com | - |
| (t) Airflow sensitivity | N/A | - |
| (u) Air tightness | N/A | m/s |
| (v) AEC | 253 | kWh |
| (w) AHS average | 3018 | kWh |
| AHS warm | 1365 | kWh |
| AHS cold | 5904 | kWh |

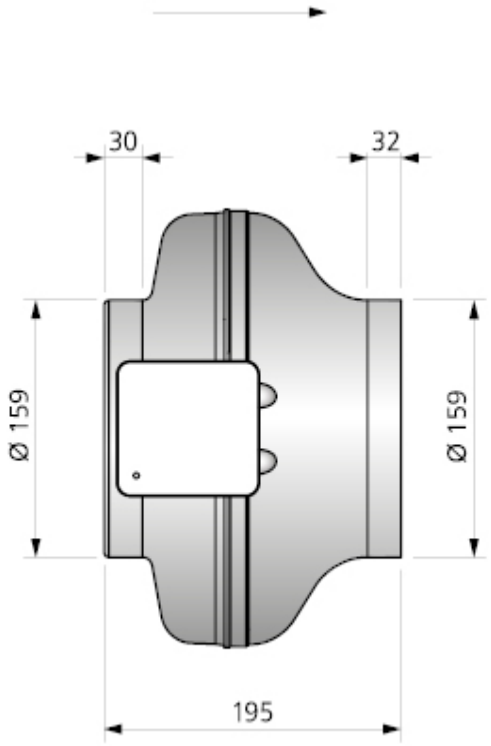
## WIRING DIAGRAM

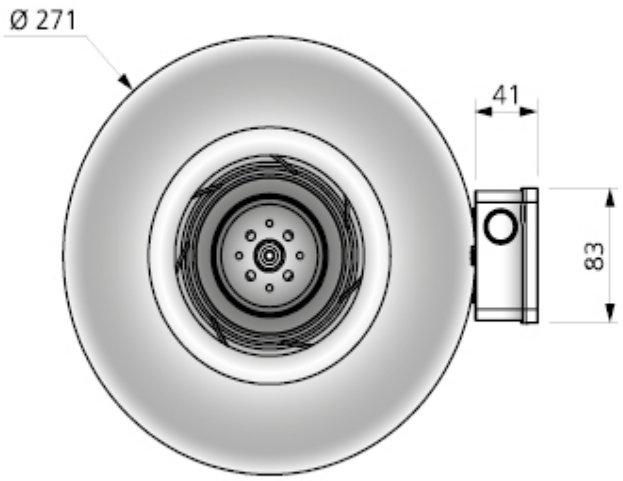
- (M) = Fan Motor
- (M1) = Fan Motor
- (M2) = Fan Motor
- (M3) = Rotor Motor
- 1 = Yellow/Green
- 2 = Black
- 3 = Blue
- 4 = Brown
- 5 = White
- 6 = Orange
- 7 = Grey
- 8 = Red
- 9 = Green
- 10 = Violet
- 11 = Quick switch
- 12 = Yellow

4040001



**DIMENSIONS**



## ACCESSORIES

### Mechanical accessories



Mounting bracket Kit MB



Mounting clamp MK 160



Safety grille BSV 160



Back draught shutter RSK 160



Louvre YG 160



Louvre shutter VK 160



Filterbox FLK 160



Filterbox FLF 160



Silencer LDC 160

### Electrical accessories



Transformer controller VRTE C



Transformer controller VRDE 1.5



Speed controller VRS 0.5



Local Demand Controller Kit