

Specification of: RDM 31-3545-4X-13-3G

Centrifugal Roof Fan Nicotra Gebhardt genovent in explosion proof execution with PREMIUM EFFICIENCY motor in efficiency class IE3

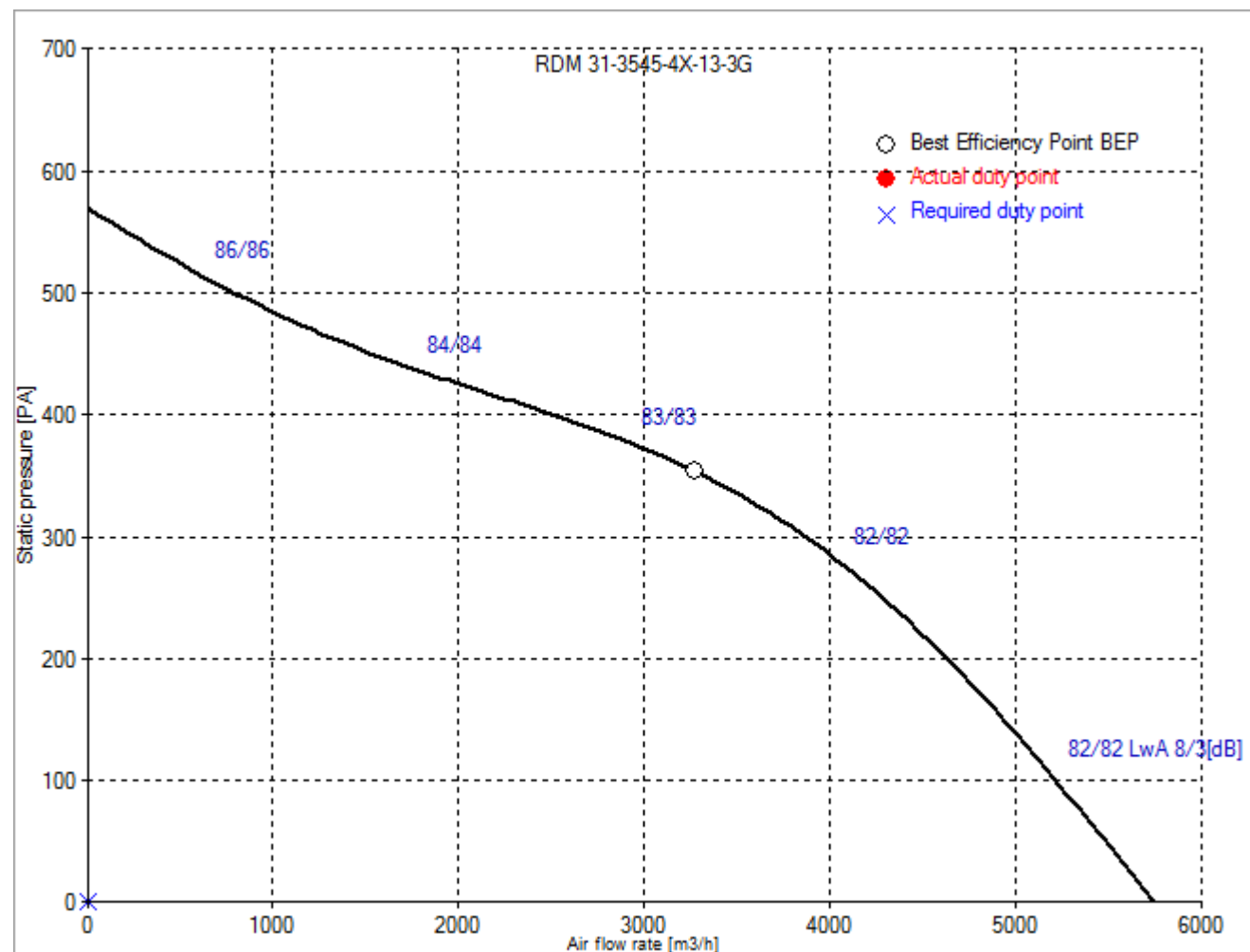
with swirl free vertically directed discharge for gas medium up to app. +40 °C. Stylish sealed casing manufactured from aluminium, Base frame of galvanized sheet steel for fitting to upstand, projecting well beyond the upstand in order to increase weatherproofing. Flange connection at intake acc. to DIN 24155-2 Discharge outlets are protected from the weather on fan shutdown by automatic backdraught shutters. Casing parts, and the impeller plus motor, are easily removed for inspection and maintenance. High performance centrifugal impeller with backward curved blades, mounted on the shaft of a standard motor placed out of the airstream, protected IP 55. The motor is adequately air cooled via a separate ventilation system. Explosion proof execution according to ATEX regulations 2014/34/EU, DIN EN 14986:2024, DIN EN ISO 80079-36 /-37:2017. Equipment labeling: II 3G Ex h IIB T3 Gc. Without service switch. Performance data in according DIN 24166 tolerance class 2 (BS 848 Class "B").

Technical data of the fan acc. to ATEX: RDM 31-3545-4X-13-3G

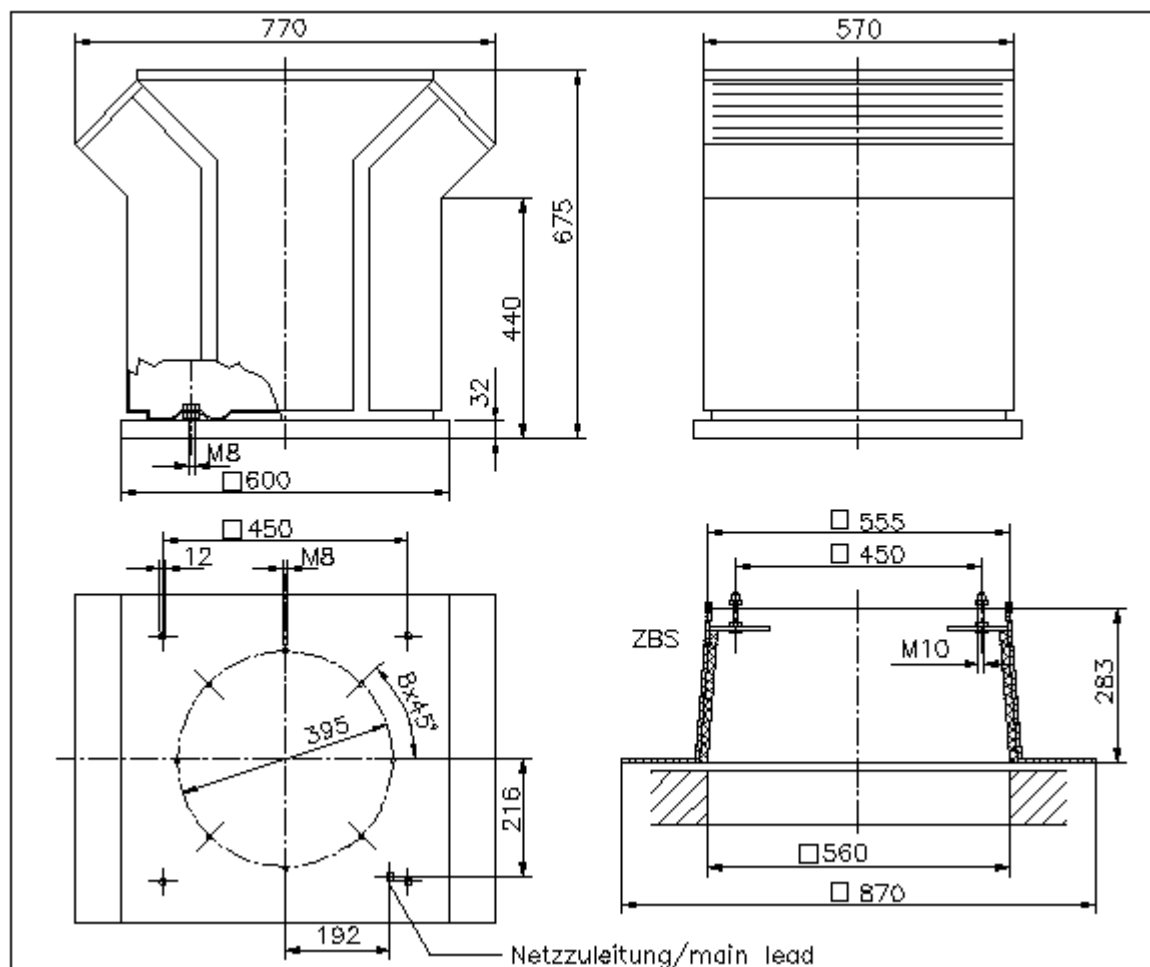
EU regulation 1253/2014 not applicable

Description	Value Dimension
Specified duty point	
Actual duty point	
Installation acc. DIN 24163 Part 1	A
Reference density (Rho1)	1.15 kg/m³
Medium temperature (t)	20 C
Fan weight	56 kg
Rated data	
Phases-Voltage-Frequency	3~230/400-50 V-Hz
Frame size-poles:	90 S-4
Motor rating (P _N)	1 kW
Rated motor speed (n _N)	1435 min ⁻¹
Rated motor current (I _N)	4,0/2,3 A
operational limits	
Max. fan speed (n _{vmax})	1500 min ⁻¹
Max. operating frequency (f _{max})	50 Hz
Temperature range of conveying medium (t _{min} ...t _{max})	-20...40 C

Fan curve to RDM 31-3545-4X-13-3G



Dimensions to RDM 31-3545-4X-13-3G



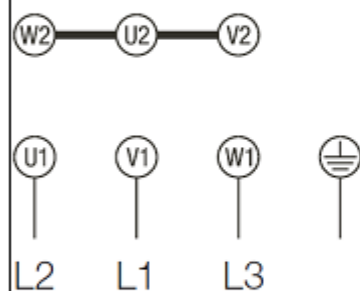
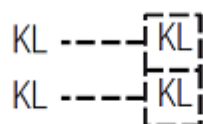
Rotation:
Handing:

RD
90

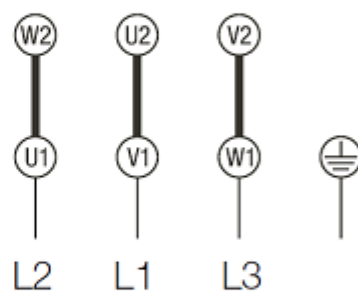
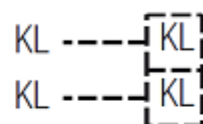
Wiring diagram of the fan RDM 31-3545-4X-13-3G

Eintouriger Drehstrom Three-phase A.C.

Stern - Schaltung (Y)
Star - connection



Dreieck - Schaltung ()
Delta - connection



Drehrichtungsänderung durch Vertauschen
von 2 Netzphasen
Reversible rotation by interchanging phases

⊕ = grün/gelb,
green/yellow,
U1 = braun, brown
V1 = blau, blue (grau, grey)
W1 = schwarz, black

20-09-04

402

Wiring diagram for connection to: [mains - motor](#)
Rotation: [RD](#)