

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom.  
 Tel: 029 2085 8595 Fax: 029 2085 8404 email: oem@nuaire.co.uk

Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.  
 This data sheet produced on 11 Oct 2017 10:57 using software version 3.6.04.1770 - 4-Oct-2017

## Technical Data

**OEM Short Case, Pad Mount. Low temp (-50°C), 18.0kW 4P 400V 3ph 50Hz TENV IE3 IP56, with a PTO. PAG impeller. Flow B. Hot dipped galvanised steel case.**

Fan Code:	<b>SC112LC48GX-0MM</b>
Short Fan Code:	<b>SC112LC48GX-0MM</b>
Form/Mounting:	<b>B</b>
Installation Manual Links:	671798
Required Duty:	55000 m³/hr @ 500 Pa @ 0 °C
Addition for Ancillaries:	+29 Pa @ 0 °C
Actual Duty:	55975 m³/hr @ 518 Pa @ 0 °C
Actual Duty inc Ancil's:	55151 m³/hr @ 532 Pa @ 0 °C
Velocity at Actual Duty:	16.932 m/s @ 0 °C
Motor Efficiency:	92 %
Fan Total Efficiency:	61 % @ 0 °C
Absorbed Power:	16.978 kW @ 0 °C
Maximum Absorbed Power:	17.176 kW @ 0 °C
Motor Input Power:	18.374 kW @ 0 °C
Specific Fan Power:	1.2 W/(l/s) @ 0 °C
Actual Duty:	55975 m³/hr at 483 Pa @ 20 °C
Fan Total Efficiency:	62 % @ 20 °C
Absorbed Power:	15.743 kW @ 20 °C
Maximum Absorbed Power:	16.004 kW @ 20 °C
Motor Input Power:	18.286 kW @ 20 °C
Specific Fan Power:	1.2 W/(l/s) @ 20 °C
Air Density:	1.288 kg/m³
Nominal Fan Speed:	4 Pole 1,470 RPM
Electrical Supply:	400 V 3 Phase 50 Hz
Motor Rating:	18 kW
Nominal Motor Rating:	15 kW
Motor Current:	flc: 34.44 A
Motor Current:	sc: 264 A (DOL) 88 A (SD)
Overload Setting:	37.884 A
Motor Efficiency:	IE3 / Premium Efficiency
Starting currents are nominal. 4 kW and above are for Star Delta, all others are for D.O.L. starting.	
Motor Frame Size:	160
Blade Angle:	32 °
Max. Operating Temp.:	60°C



## Sound Data

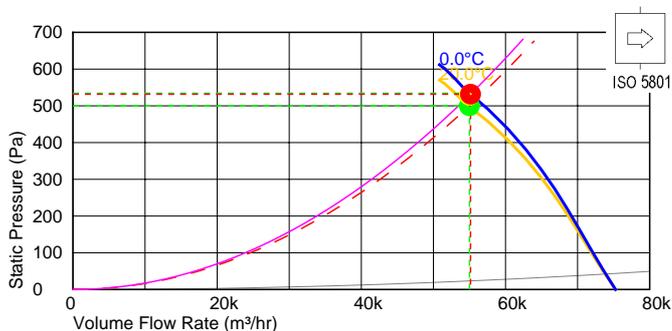
Sound Power Levels re 1 pWatts (Hz):

	63	125	250	500	1k	2k	4k	8k	dBA	Lw	LwA
Open Inlet	102	99	106	107	101	100	95	93	90	113	109
Open Outlet	102	100	106	107	104	102	99	96	91	114	111
Total	105	102	109	110	105	104	100	97	94	116	113

dBA is spherical free field radiation at 3 metres.  
 Lw = Sound Power, LwA = A Weighted Lw.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

## Performance Curve



## Project Details

### Request for Quotation Imp226031

Location: 55000m³/h @ 500Pa (0°C) - IE3 Pad Mount Replacement Unit

## Selected Ancillaries

1 x SCRT112GC/440/160 Motor Side Guard - Zinc Passivated

### SCRT112GC/440/160 - Motor Side Guard - Zinc Passivated

Resistance at Design: 29 Pa @ 55000 m³/hr  
 Resistance at Actual: 29 Pa @ 55151 m³/hr

## ErP Directive 2015 Compliant

The following information confirms compliance with EU 327/2011 as required by ErP Directive 2009/125/EC. ONLY APPLICABLE WITHIN EU STATES.

Efficiency Grade:	42
Overall Efficiency:	43.3 %
Measurement Category:	A
Efficiency Category:	Static
Variable Speed Drive:	None
Input Power at Best Point:	18.589 kW
Volume Flow at Best Point:	14.122 m³/s
Pressure at Best Point:	570 Pa
Speed:	1470 RPM
Specific Ratio:	1.005644

## Specification

1120mm diameter short cased circular axial flow fan manufactured from hot dipped galvanised mild steel. Fan incorporates inlet and outlet flanges with pre-drilled bolt holes. Impeller blades manufactured from glass reinforced polyamide (PAG) mounted in an aluminium hub and A2 stainless steel fixings. Impeller balanced in accordance with ISO 1940. The motor is 50Hz 4 pole 18.0kW 400V three phase, single speed, totally enclosed non-ventilated, protected to IP56, pad mounted, class F (-50°C) insulated and has sealed for life bearings. The motor is fitted with a PTO. Motor efficiency is IE3. Motor efficiency stated is based on the IEC rated output for the motor. NOTE: This unit cannot be inverter speed controlled.

## Additional Notes

Please note: We have used the data we have on our system to offer a new IE3 replacement unit. We ask that you review the attached fan data sheets and confirm full suitability prior to any order placement.

## Fan Dimensions

