



120V~60Hz



W = Width, H = Height



SafeStart 410802

Characteristics: Indirect heating

Contact heater

Contact heaters consist of an element cast in aluminium, which is adapted to fit the installation point on the engine.

DEFA AS is conforming to the requirements of both ISO 9001, ISO 14001 and OHSAS 18001. In addition to this, our engine heaters and cables are conforming to the requirements of ISO/TS 16949.

Item number

410802 Weight: =93gr. (3.3 oz)

Installation

Install the heater according to the enclosed installation guide or technical information for a vehicle. Install **ONLY** the heater on vehicles listed in the installation guide. Installing DEFA heaters must only be executed by authorized garages.

Usage

Normal usage - DEFA engine heaters is dimensioned for "normal usage". DEFA defines "normal usage" as; 3 connections for 3 hours pr. 24 hour based upon 150 users days a year (5 months a year).

Professional usage - It is necessary to make a yearly function control and if necessary install a new heater to obtain necessary extent of service on emergency vehicles or power supplies where the heater is connected more or less 24/7. This yearly service cost will not be covered by DEFA AS.

Pulse power - Some car parking areas are using interval (pulse) power timers turning the power On and Off several times per hour. Using DEFA engine heater in suchlike parking facilities will not be considered as "Normal use" and claims will be declined.

Technical specifications

Voltage [V]	120
Power [W]	400
W/H [mm]	111/120
IP rating	IP44
Testing & acceptance	Electric Heating Appliances, UL 499, Thirteenth Edition, dated November 17, 2005, with revisions through and including April 11, 2012 & Engine Heaters and Battery Warmers, CAN/CSA-C22.2 No. 191-M89, Issue: 1989/09/01, General Instruction No. 1-3, (Reaffirmed 2009)

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