

# AutoChief® C20

## Electric Actuator SEFA 160



KONGSBERG



### Description

The SEFA160 is a compact/light weight fuel actuator for main engine, with 24VDC power supply. It is designed for use in marine environment and type approved according to valid standards.

### Features

- Accuracy: 5 arcmin position accuracy
- Speed: 105 deg/sec @160Nm load
- Torque limitation and control
- Built in brake. Power loss gives locked output shaft
- Fault tolerant positioning.

### Functions

- High dynamic operation. (Position, torque and speed control).
- Absolute position sensor directly connected to output shaft (No position calibration on power up required.)
- Integrated brake for position when power supply is off
- Integrated fault detection/correction system
- Overvoltage and over current protection
- Built in monitoring (Over/under voltage, current consumption, temperatures, etc.)

### Main Specifications

- Nominal Torque: 160 Nm
- Peak Torque 170 Nm
- Maximum No-Load Speed: 1000Deg/Sec
- Main supply voltage 24 VDC
- Main supply nominal current 20A
- Main supply peak current 25A
- Main supply nominal power 480W
- Position feedback interface: Serial
- Position feedback resolution: 22.75 PPD
- Dimensions: 200 x 295.7 mm (minimum, Diameter x Length)

## System Specifications

### Production burn-in

+ 70°C for 72 hours

### User interface

User interface in ACP or ROS

### Power requirements

24VDC power supply

Supply voltage DC: 18 - 31.2 VDC,  
±5% ripple

### IP Code

- IP56

### Weight

- 21 kg

### Environmental properties

- IACS E10 rev 4 May 2004,
- IEC60533 Second Edition 1999
- DNV Standard for certification No. 2.4 "Environmental test specification for instrumentation and automation equipment" No. 2.4, issued April 2001 by DNV.
- Operating temperature: -15°C to + 70°C
- Storage temperature: - 30°C to + 80°C
- Vibration >9G
- Maximum humidity: 97% no condensation

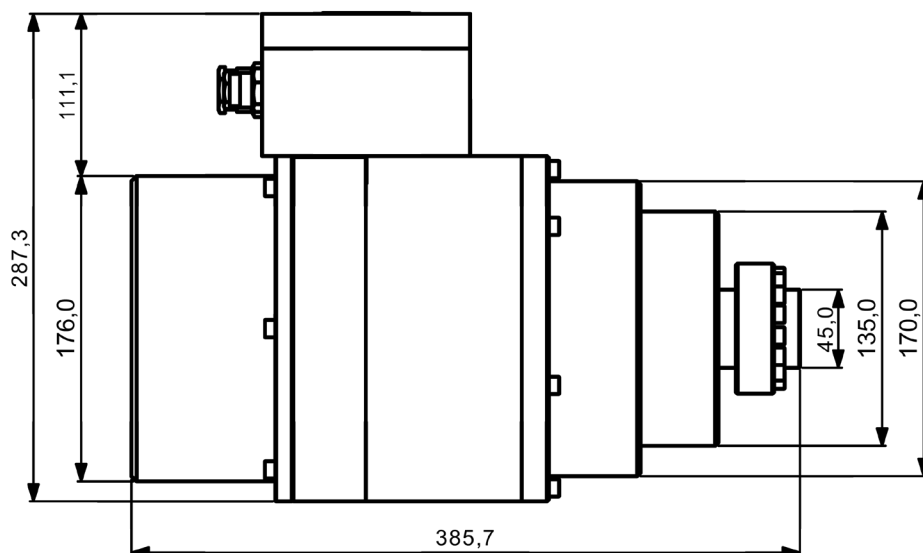
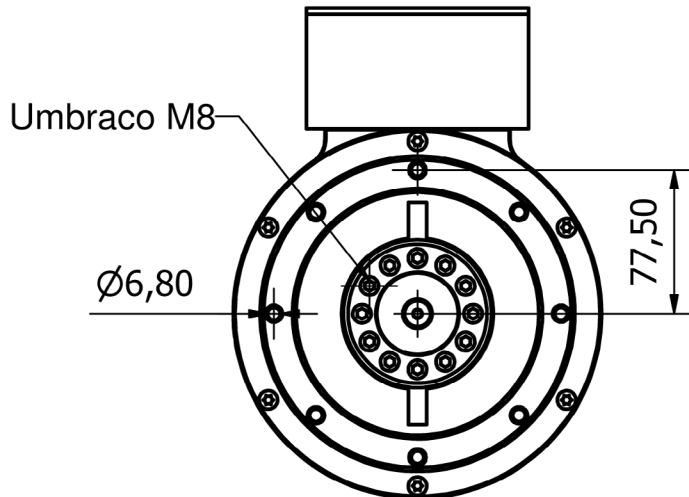
### Electromagnetic compatibility (EMC)

Complies with the classification societies requirements regarding electrostatic discharge (ESD), radiated susceptibility (RS) and conducted susceptibility (CS). In addition to the EU directive for radiated emission

- Emission, conducted: IACS E10:2004 & IEC60533:1999; 0.01 – 30MHz
- Emission, radiated: IACS E10:2004 & IEC60533:1999; 0.15 – 2000MHz
- Immunity, conducted: IEC 61000-4-16(1998-01); 0.05 – 10kHz
- Immunity, radiated: IEC 61000-4-3(2002-03); 80 – 2000 MHz

### Type approved by

DnV, LRS, BV, GL, RINA, NKK, ABS, KR, RMR, CCS



Copyright © 2012 Kongsberg Maritime AS – All rights reserved

Specifications may be subject to change without prior notice

339192-E

### Kongsberg Maritime AS

Bekkejordet 8A  
P.O.Box 1009  
NO-3189 Horten  
Norway

Telephone: +47 815 73 700  
Telefax: +47 850 28 028  
[www.kongsberg.com](http://www.kongsberg.com)  
[km.sales@kongsberg.com](mailto:km.sales@kongsberg.com)



KONGSBERG