Cutter Type F

Item No. 2 685 551 (Edition 06/97)

order) by pole reversal of the motor voltage.

Introduction

This installation manual is provided for the connection and starting procedure of your cutter. Further informations like e.g. dimensioned drawings are available

in our Printers and Cutters Catalogue or on request. The devices of the type F (0685.7) model series are electric motor driven paper cutters. The paper is cut by two flat knives. Cutting is monitored by an internal microswitch.

The cutting mode can be changed from full to partial cut (in any

In partial cutting mode the paper remains linked in its center by a strip of about 2 mm in width. Cutting is triggered by an external SPDT contact. The units are available in various widths, depending on the paper

width to be cut.

This cutter is a quality product manufactured in accordance with

Safety Instructions

established electrical engineering standards.

The unit has been delivered from the factory in perfect conformance to safety regulations. To maintain this condition, please observe all notes and warnings in this document!

Installation and mounting of electrical devices may only be performed by an electrotechnical expert!

- When installing and mounting the cutter, please observe the
- demands made on the whole facility by the respective device safety regulation.
- The cutter may only be used for the purpose it was designed for - i.e. for cutting paper strips. The cutter is designed complying with EN 60950, protection
- To prevent dangerous structure-borne currents, the equipment has to be run on safety extra-low voltage (SELV) and must be in an area of equipotential bonding.
- The cutter may only be operated within the limits specified by the technical data.
- Maximum operating voltages must not be exceeded!
- Hengstler Cutters are designed for industrial use. Installation environment and cabling have a very significant
- influence on Electromagnetic Compatibilty (EMC). When installing the cutter sub-assembly in a complete unit, you should seek guarantees from the manu facturer of the
- complete unit regarding EMC. Caution: Danger! The flat knives have sharp cutting edges; the drive motor has a high torque!



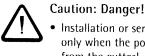
Therefore never reach into the cutting area, e.g. for removing jammed paper!

- Only use tweezers, tongs or the like for this purpose (do not damage the knife)! It is expressively emphasized that the cutter is to be started only when completely installed, i.e. the flat knives are covered on all sides and the paper feed and delivery slot are dimensioned such that, e.g.,
- small children cannot reach into the cutting area.

HENGSTLER Hengstler GmbH

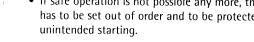
D-78550 Aldingen Fax 07424 - 89210

Tel. 07424 - 89424



- Installation or servicing works are to be carried out only when the power supply lines are disconnected from the cutter!
 - If safe operation is not possible any more, the cutter has to be set out of order and to be protected against unintended starting.

Postfach 1151



Do not cut self-adhesive labels! The traces of adhesive will pollute the flat knives and impair safe operation!

Operating Instructions

- During the cutting process, there must be no paper feed. Please make sure that the cutter remains free from shreds of
 - paper.
- Having applied voltage, please ensure that the knives are in home position before paper is fed. For cutters with trigger control type K (mechanical contact) the

user has to make sure that - in case of malfunction (e.g.

- blocked knife) the drive motor is separated from operating voltage after max. 10 seconds by a suitable external protective
- switch. Otherwise the motor will possibly be destroyed by overheat. Do not use cleaning agents containing solvents - these agents dissolve the case parts.
- Installation Instructions The cutter must be installed in the intended unit before

connecting the power lines!

- The cutter can be installed in any position. The strips cut off, however, must not collect in the cutting area, thus blocking the rotary knife!
- The cutter can be attached by means of two M3 screws. Install the cutter in the unit/housing such that paper transport is smooth.
- Switch off the control system and power supply at first. Then connect them to the cutter electrically.
- Preparations for use Make sure that the cutter is turned off. Slide the paper through the paper channel in the paper feed

If the knives are not in home position they will hinder the paper strip from being slid through the channel.

direction indicated.

paper.

- You can put the knives to home positi 1 two different ways: 1. Turn the shaft screw on the outside of the case using a flat screwdriver until the channel is clear. 2. Turn on the assembly and conduct one cutting cycle without
- Perform a trial run with paper. Ensure that the paper strips are fed to the cutter continuously and
- properly and that the unit cuts them precisely.

Installation manual Cutter Type F

(dimensions in mm)

1 - Dimensioned drawings

Item No. 2 685 551 (Edition 06/97)

socket housing, 5 poles

manufacturer: JST type: XHP-5

INTERNAL

NO I

1

2 5

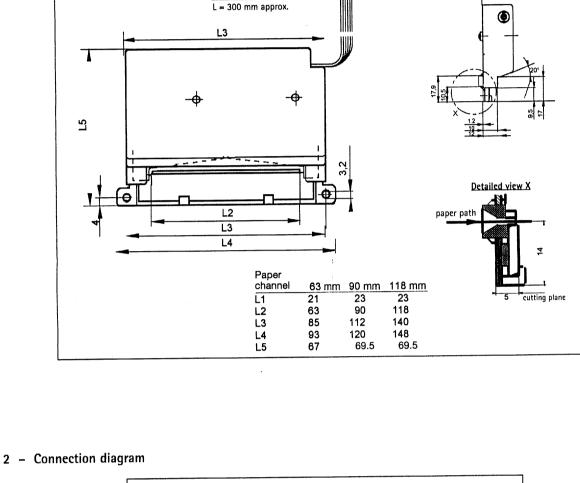
4 3

connecting lead, AWG 28

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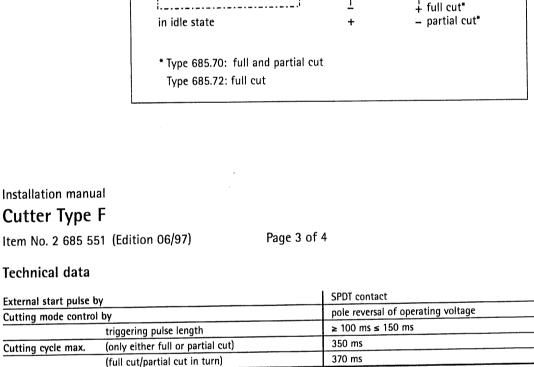


EXTERNAL

Start +

R

 $R = 10 \Omega$ at 12 V $R = 33 \Omega$ at 24 V



12 V DC / 24 V DC (SELV)

± 10 %

2.4 A

0.24 A

1.0 A

2.4 A

IP 10

U = 12 V DC:

-10 °C ... +60 °C

-40 °C ... +70 °C

65 % without condensation

1,000,000 for paper weights up to 120 g/m²

1,000,000 for paper weights up to 120 g/m²

as per EN 60950, protection class III

2 hubs and 2 plastic inlets for M3 screws

flat ribbon cable with 5 cores and JST-plug

63 mm

85 x 67 x 21 mm

160 g approx.

≤ 60 mm

60 ... 120 g/m²

60 ... 170 g/m²

50 m/s², 10 ... 500 Hz

800 m/s², 6 ms

EN 50082-2

passed

500,000 for paper weights 120 g/m² up to 170 g/m²

U = 24 V DC

90 mm

112 x 69.5 x 24 mm

320 g approx.

≤ 87 mm

60 ... 120 g/m²

60 ... 170 g/m²

1.2 A

0.12 A

0.5 A

1.2 A

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General design

Installation manual

Cutter Type F

Malfunctions

Flat knives do not

Ordering code (see identification plate)

return to home position

Series 0 685.7

(Twincut)

Result

Flat knives do not move

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Noise immunity

Service life (number of cuts)

Technical data

Cutting cycle max.

Operating voltage

Climate

Current (at T_u = 20 °C)

Protection class (IEC 529) Vibration performance (IEC 68-2-6) Shock resistance (IEC 68-2-27)

Noise emission (distance 30 cm, U + 10 %)

Drop test (DBP DIN ISO 2206, 2233, 2246) Mounting Paper channel width Dimensions Weight paper width **Paper** paper weight type 685.70 (full and partial cut) paper weight type 685.72 (full cut) **Electrical connection**

voltage tolerance

making current

no-load current

cutting current

when motor is blocked

operating temperature

medium relative humidity

Type 685.70 (full and partial cut)

Operating voltage failure

- Defective connecting cable

- Defective trigger control

- Defective reset switch or gear

foreign objects

Cause unknown

Flat knives blocked by paper shreds/

Mounting type

00 = without mounting parts

storage temperature

Type 685.72 (full cut)

Page 4 of 4 Measure Check the power supply Check the cutter's connecting cable as well as

> the plug-in resp. soldered connections Check mechanical resp. electronic pulsers

Remove paper shreds from cutting area!

Switch off the appliance!

Remove foreign objects! Please contact the manufacturer

Please contact the manufacturer

ABS Operating voltage -12 = 12 V DC Special version 24 = 24 V DC= none special version Paper channel Type of connection 063 ... 118 mm flat ribbon cable with JST-plug, 5 poles Paper weight $120 = 120 \text{ g/m}^2$ Trigger control $170 = 170 \text{ g/m}^2$ K = contactCutting mode K1 = full and partial cut with Knife finishing 1 link, combined Z = rustproofVO = full cut

Technical specifications subject to change without notice.

We apply customer specifications to special versions. If you don't know these please call us for the specifications,

indicating the cutter's item number.

118 mm 140 x 69.5 x 24 mm 360 g approx. ≤ 114 mm 60 ... 120 g/m² 60 ... 170 g/m²

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