

Connection Diagram HF-Spindle Isel iSA750

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HF-Spindle Isel iSA750



Short Description

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1 Übersicht



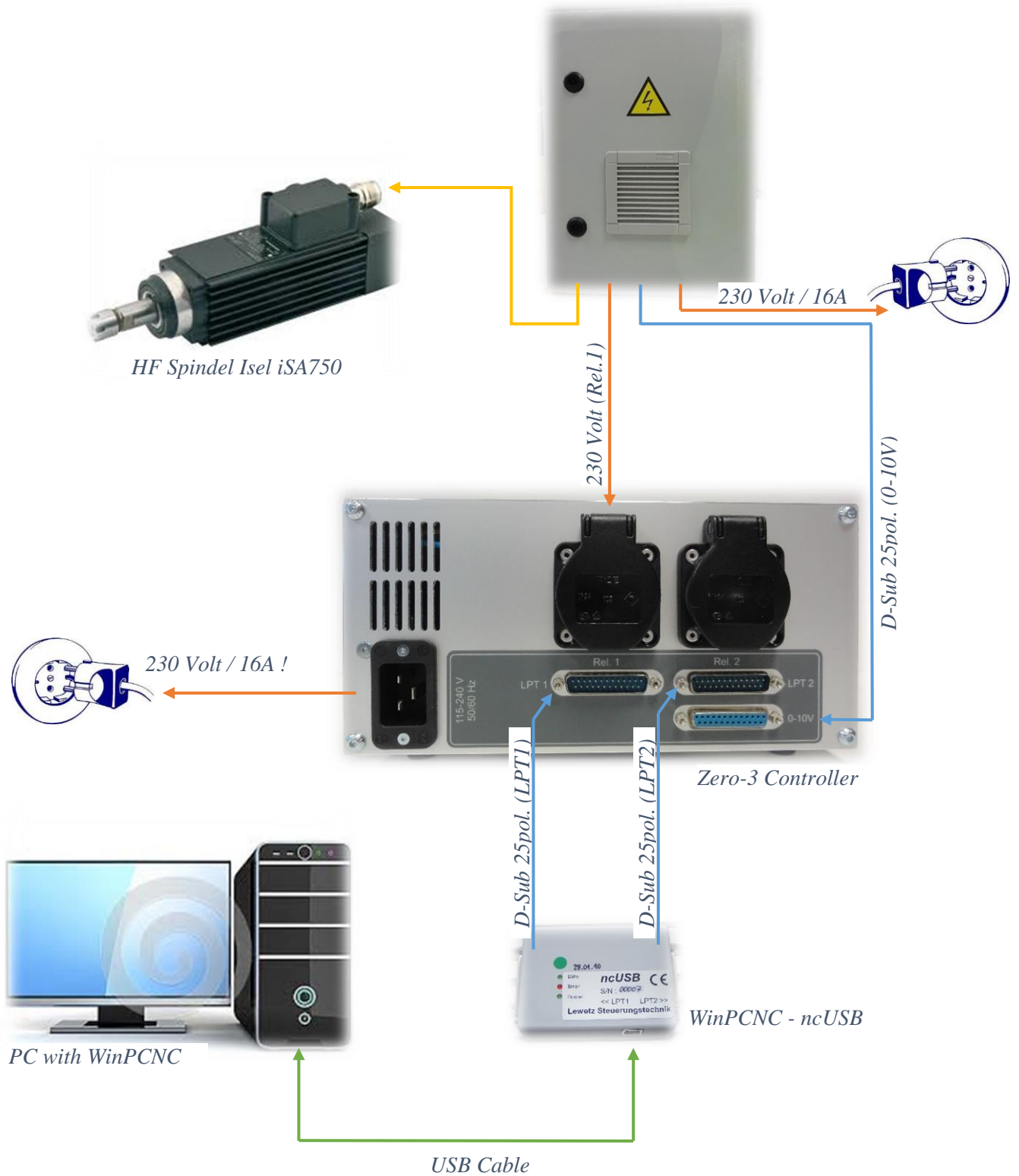
- | | | | |
|---|-------------------------------|---|-------------------|
| 1 | Lufteinlass | 4 | Sicherungsautomat |
| 2 | Lüfter | 5 | Umrichter |
| 3 | Ein- Ausschalter (beleuchtet) | | |



Anschlusskabel

2 Connection Diagram

2.1 WinPCNC USB



3 Technical Data

3.1 HF-Spindle Isel iSA 750

spindle motor with manual tool changer



iSA 750

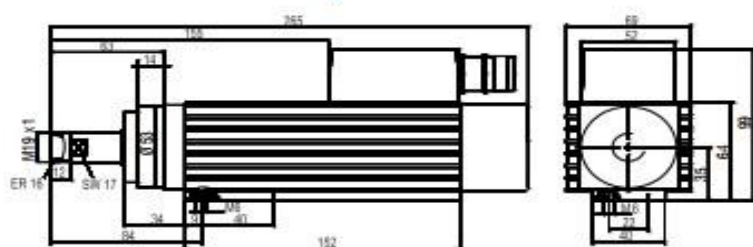
Features

- Robust 2-pole AC motor (asynchronous motor)
 - Square shape, Protection class IP54, insulation class F
 - Aluminium extrusion A and B sides
 - Motor shaft to take ER 16 collets
 - Rated output 0.75 kW (S6-40% operation)
 - Speed range 3,000 rpm. - 24,000 rpm.
 - Manual tool change
 - M23 plug connection
 - Incl. ER16 collet, Ø 6 mm
 - Clamping range Ø 1 mm – Ø 10 mm
 - Intrinsic ventilation B-side
 - Two precision bearings
 - Controlled by frequency converter
- optional:
- CoolMin® (internal and external)
 - Frequency converter
 - Various collets, mounting plates, lead lengths
 - Suction device

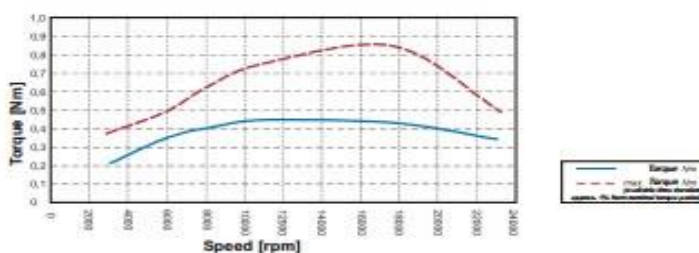
Technical specification

Description		iSA 750
Torque at rated speed 22,000 rpm	[Nm]	0.34
Speed	[rpm]	3,000 to 24,000
Cut-off frequency	[Hz]	300
Number of poles		2
Rated voltage	[V]	230
Rated current	[A]	3.4
cos ϕ		0.79
S6 = 40% rated output	[kW]	0.75
Concentricity	[mm]	0.01
Weight	[kg]	2.6

Dimensioned drawings



Torque curves



Subject to technical changes.

3.2 Frequenz Converter SMC 750

Frequency converters



SKC 750 frequency converter, suitable for iSA 500, iSA 750 + iSA 900
Part no.: **311707 6000**

SKC 1500 frequency converter, suitable for iSA 1500 + iSA 2200
Part no.: **311715 6000**

SKC 4000 frequency converter, suitable for iSA 3600
Part no.: **311740 6500**

- Compact, pulse width modulated equipment in three output classes
- Input voltage, 230 V AC, single phase (SKC 750/1500) or 400 V AC, three phase (SKC 4000)
- Three phase, vector controlled control voltage frequency 0...1500 Hz
- Fast spindle braking with highly stressed, integrated brake resistance in the sub-frame
- Turn-off EMC filter
- Programmable inputs and outputs, relay output
- User-friendly control unit for configuring spindles
- 95 operating and display parameters for both simple and demanding applications (e. g. spindle energy sink in no load)
- Protection class: IP 20
- Control types: SPS; 0...10 V; 0...20 mA; with operating unit; CAN Bus (additional module required)
- Approved: CE; C-Tick; UL

4 Customer Service

For technical information, please contact our Technical Customer Service:

Address:	CNC-STEP e.K. Siemensstraße 13-15 D-47608 Geldern	
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E-Mail:	support@cnc-step.de	
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If you have questions, please contact our customer service via e-mail or phone.
We advise you gladly.

Numerous suggestions and information can be found on our website:

www.cnc-router.com