

TPS 320i C

Mains voltage (U_1)	3 x 400 V
Max. effective primary current ($I_{1\text{eff}}$)	12.5 A
Max. primary current ($I_{1\text{max}}$)	19.7 A
Mains fuse protection	35 A slow-blow
Mains voltage tolerance	-15 / +15%
Grid frequency	50/60 Hz
Cos phi (1)	0.99
Max. permitted mains impedance Z_{max} at PCC ¹⁾	96 mOhm
Recommended residual current circuit breaker	Type B
Welding current range (I_2)	
MIG/MAG	3-320 A
TIG	3-320 A
MMA	10-320 A
Welding current at 10 min/40 °C (104 °F)	40% / 320 A 60% / 260 A 100% / 220 A
Output voltage range according to standard characteristic (U_2)	
MIG/MAG	14.2-30.0 V
TIG	10.1-22.8 V
MMA	20.4-32.8 V
Open circuit voltage (U_0 peak/ U_0 r.m.s)	71 V
Protection class	IP 23
Type of cooling	AF
Overvoltage category	III
Pollution degree according to IEC60664	3
EMC emission class	A ²⁾
Safety symbols	S, CE
Dimensions L x W x H	706 x 300 x 510 mm 27.8 x 11.8 x 20.1 in.
Weight	35.8 kg / 78.9 lb.
Max. noise emission (LWA)	69 dB (A)
Max. shielding gas pressure	7 bar / 101 psi
Coolant	Original Fronius
Wire speed	1-25 m/min / 40-980 ipm
Wire drive	4-roller drive
Wire diameter	0.8-1.6 mm / 0.03-0.06 in.

Wirespool diameter	max. 300 mm / max. 11.8 in.
Wirespool weight	max. 19.0 kg / max. 41.9 lb.
Idle state power consumption at 400 V	34.7 W
Welding machine efficiency at 320 A / 32.8 V	89%

The wirefeeder for the TPS 320i C is integrated in the welding machine.

- 1) Interface to a 230/400 V and 50 Hz public grid
- 2) An emission class A device is not designed for use in residential areas supplied with power from a public low-voltage grid.
The electromagnetic compatibility can be influenced by conducted or radiated radio frequencies.