



Certificate of Compliance

Certificate: 2669413

Master Contract: 203213

Project: 80109677

Date Issued: May 10, 2022

Issued To: Fronius International GmbH
Guenter Fronius Strasse 1
Wels-Thalheim, Upper Austria, 4600
Austria

Attention: Bernhard Haidinger

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Sven Renke*
Sven Renke



PRODUCTS

CLASS - C561183 - WELDING MACHINES Certified to US Standards

CLASS - C561103 - WELDING MACHINES Welding Machines

PART A:

PART A1:

Model TPS 500i (/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 35A(max.), 22A(eff.) / 400V, 38A (max), 24A(eff.); 3 phase, 50 or 60Hz

Output: 32.0V, 360Adc, 100% Duty Cycle; 35.5V, 430Adc, 60% Duty Cycle; 39.0V, 500Adc, 40% Duty Cycle

Max. OCV: 82Vpeak

IP-23



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PART A2:

Model TPS 400i (/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 24A(max.), 15A(eff.) / 400V, 26A (max), 16A(eff.); 3 phase, 50 or 60Hz

Output: 30.0V, 320Adc, 100% Duty Cycle; 32.0V, 360Adc, 60% Duty Cycle; 34.0V, 400Adc, 40% Duty Cycle

Max. OCV: 83Vpeak

IP-23

PART A3:

Model TPS 320i (/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 18A(max.), 12A(eff.) / 400V, 20A (max), 13A(eff.); 3 phase, 50 or 60Hz

Output: 26.0V, 240Adc, 100% Duty Cycle; 27.0V, 260Adc, 60% Duty Cycle; 30.0V, 320Adc, 40% Duty Cycle

Max. OCV: 84Vpeak

IP-23

PART A4:

Model TPS 400i LSC ADV (/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 24A(max.), 15A(eff.) / 400V, 26A (max), 17A(eff.); 3 phase, 50 or 60Hz

Output: 30.0V, 320Adc, 100% Duty Cycle; 32.0V, 360Adc, 60% Duty Cycle; 34.0V, 400Adc, 40% Duty Cycle

Max. OCV: 84Vpeak

IP-23

PART A5:

Model TPS 600i (/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 51A(max.), 39A(eff.) / 400V, 58A (max), 45A(eff.); 3 phase, 50 or 60Hz

Output: 39.0V, 500Adc, 100% Duty Cycle; 44.0V, 600Adc, 60% Duty Cycle

Max. OCV: 85Vpeak

IP-23

PART B:

PART B1:

Model TPS 500i (/600V/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 575V, 31A(max.), 20A(eff.); 3 phase, 50 or 60Hz

Output: 32.0V, 360Adc, 100% Duty Cycle; 35.5V, 430Adc, 60% Duty Cycle; 39.0V, 500Adc, 40% Duty Cycle

Max. OCV: 71Vpeak

IP-23

PART B2:

Model TPS 400i (/600V/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 575V, 23A(max.), 15A(eff.); 3 phase, 50 or 60Hz



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Output: 30.0V, 320A_{dc}, 100% Duty Cycle; 32.0V, 360A_{dc}, 60% Duty Cycle; 34.0V, 400A_{dc}, 40% Duty Cycle
Max. OCV: 68V_{peak}
IP-23

PART B3:

Model TPS 320i (/600V/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 575V, 17A(max.), 11A(eff.); 3 phase, 50 or 60Hz

Output: 26.0V, 240A_{dc}, 100% Duty Cycle; 27.0V, 260A_{dc}, 60% Duty Cycle; 30.0V, 320A_{dc}, 40% Duty Cycle

Max. OCV: 67V_{peak}

IP-23

PART B4:

Model TPS 400i LSC ADV (/600V/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 575V, 23A(max.), 15A(eff.); 3 phase, 50 or 60Hz

Output: 30.0V, 320A_{dc}, 100% Duty Cycle; 32.0V, 360A_{dc}, 60% Duty Cycle; 34.0V, 400A_{dc}, 40% Duty Cycle

Max. OCV: 70V_{peak}

IP-23

PART B5:

Model TPS 600i (/600V/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 575V, 49A(max.), 38A(eff.); 3 phase, 50 or 60Hz

Output: 39.0V, 500A_{dc}, 100% Duty Cycle; 44.0V, 600A_{dc}, 60% Duty Cycle

Max. OCV: 73V_{peak}

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PART C:

PART C1:

Model TPS 500i (/MV/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 33A(max.), 21A(eff.) / 230V, 63A (max), 39A(eff.); 3 phase, 50 or 60Hz

Output: 32.0V, 360A_{dc}, 100% Duty Cycle; 35.5V, 430A_{dc}, 60% Duty Cycle; 39.0V, 500A_{dc}, 40% Duty Cycle

Max. OCV: 68V_{peak}

IP-23

PART C2:

Model TPS 400i (/MV/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 23A(max.), 14A(eff.) / 230V, 42A (max), 27A(eff.); 3 phase, 50 or 60Hz

Output: 30.0V, 320A_{dc}, 100% Duty Cycle; 32.0V, 360A_{dc}, 60% Duty Cycle; 34.0V, 400A_{dc}, 40% Duty Cycle

Max. OCV: 67V_{peak}

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PART C3:

Model TPS 320i (/MV/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 17A(max.), 11A(eff.) / 230V, 31A (max), 19A(eff.); 3 phase, 50 or 60Hz

Output: 26.0V, 240Adc, 100% Duty Cycle; 27.0V, 260Adc, 60% Duty Cycle; 30.0V, 320Adc, 40% Duty Cycle

Max. OCV: 68Vpeak

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PART C4:

Model TPS 400i LSC ADV (/MV/nc) followed by suffixes, inverter type welding power sources, for MIG/MAG and Rod Electrode welding processes, rated as follows:

Input: 460V, 23A(max.), 14A(eff.) / 230V, 42A (max), 27A(eff.); 3 phase, 50 or 60Hz

Output: 30.0V, 320Adc, 100% Duty Cycle; 32.0V, 360Adc, 60% Duty Cycle; 34.0V, 400Adc, 40% Duty Cycle

Max. OCV: 67Vpeak

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PART D: ACCESSORIES for Models “TPS 500i”, “TPS 400i”, “TPS 320i”:

RC Panel Basic, RC Panel Standard, RC Panel Pro, AI IO/i, RI IO/i, RI IO PRO/i, RI FB Pro/i and RI FB Inside/i: Remote control units employed in conjunction with power sources, Supply Voltage 24V.

NOTE:

- The installation of equipment not provided with power plug and cord is subject to Approval of the Local Inspection Authority.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 60974-1:19 Arc welding equipment - Part 1: Welding power sources

ANSI/NEMA/IEC 60974-1:2019 Arc welding equipment - Part 1: Welding power sources

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.



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The following markings appear clearly on the unit in a permanent manner.

- (a) Submitter's name and/or File number "203213" adjacent to the c CSA us monogram.
- (b) Model designation.
- (c) Complete electrical rating, including input volts, hertz, and amps; and output amps, volts, AC or DC, duty cycle in % and max. open circuit secondary voltage (U0)
- (d) The power ON and OFF positions
- (e) The date of manufacture or date-traceable serial number
- (f) The output amp scale indicates the output amps available from the machine.
- (g) The following warnings are included on the enclosure front or top
 - FUMES AND GASES CAN INJURE YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN. ELECTRIC SHOCK CAN KILL
 - READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND YOUR EMPLOYER'S SAFETY PRATICES
 - KEEP YOUR HEAD OUT OF THE FUMES
 - USE ENOUGH VENTILATION, EXHAUST AT THE ARC, OR BOTH, TO KEEP FUMES AND GASES FROM YOUR BREATHING ZONE AND THE GENERAL AREA
 - WEAR CORRECT EYE, EAR AND BODY PROTECTION
 - DO NOT TOUCH LIVE ELECTRICAL PARTS
 - CONSULT INSTRUCTION MANUAL BEFORE OPERATING
 - DO NOT REMOVE THIS MARKING
- (h) An instruction manual is provided with each machine shipped that includes the safety measures that are included in clause 5.11(a) to (g).
- (i) A diagram shall be included inside the enclosure that shows connections of the replacement cord, including ground.

Safety markings are provided in a location clearly visible to the operator. An instruction manual is provided with each machine shipped that includes the safe installation and usage of the equipment and includes the information in Standard CAN/CSA E60974-1 and references CSA Standards W117.2, ANSI Standard Z49.1 as applicable for each machine.

Nameplate adhesive label material approval information:

Rating plate Material is 3M™ 7872EC which is UL and cUL recognized (File Number MH18072)

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Additional Markings:

The date of the manufacture is traceable through a date-coded serial number.

The polarity of the output terminals is marked.

The “ON” and “OFF” positions of the power switch shall be marked (I-O, ON-OFF, etc.)

The following warning label appear on the enclosure front or top (also See Ill. 4 for warning labels).

 WARNING			ARC RAYS can burn eyes and skin; NOISE can damage hearing. <ul style="list-style-type: none"> Wear welding helmet with correct filter. Wear correct eye, ear and body protection. 	Read American National Standard Z49.1, "Safety in Welding and Cutting" From American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126; OSHA Safety and Health Standards, 29 CFR 1910, from U.S. Government Printing Office, Washington, DC 20402. CSA, W117-2 M87 Code for Safety in Welding and Cutting. 42.0409.5074	
Do not Remove, Destroy, Or Cover This Label			EXPLODING PARTS can injure. <ul style="list-style-type: none"> Failed parts can explode or cause other parts to explode when power is applied. Always wear a face shield and long sleeves when servicing. 		
ARC WELDING can be hazardous. <ul style="list-style-type: none"> Read and follow all labels and the Owner's Manual carefully Only qualified persons are to install, operate, or service this unit according to all applicable codes and safety practices. Keep children away. Pacemaker wearers keep away. Welding wire and drive parts may be at welding voltage. 			ELECTRIC SHOCK can kill; SIGNIFICANT DC VOLTAGE exists after removal of input power <ul style="list-style-type: none"> Always wait 60 seconds after power is turned off before working on unit. Check input capacitor voltage, and be sure it is near 0 before touching parts. 		
	ELECTRIC SHOCK can kill. <ul style="list-style-type: none"> Always wear dry insulating gloves. Insulate yourself from work and ground. Do not touch live electrical parts. Disconnect input power before servicing. Keep all panels and covers securely in place. 		 AVERTISSEMENT		
	FUMES AND GASES can be hazardous. <ul style="list-style-type: none"> Keep your head out of the fumes. Ventilate area, or use breathing device. Read Material Safety Data Sheets (MSDSs) and manufacturer's instructions for materials used. 		UN CHOC ELECTRIQUE peut etre mortel. <ul style="list-style-type: none"> Installation et raccordement de cette machine doivent etre conformes a tous les pertinents. SOUDEGE A L'ARC peut etre hasardeux. <ul style="list-style-type: none"> Lire le manuel d'instructions avant utilisation. Ne pas installer sur une surface combustible. Les fils de soudage et pieces conductrices peuvent etre a la tension de soudage. 		
	WELDING can cause fire or explosion. <ul style="list-style-type: none"> Do not weld near flammable material. Watch for fire: keep extinguisher nearby. Do not locate unit over combustible surfaces. Do not weld on closed containers. 				

Alternate warning label:

⚠ WARNING		⚠ AVERTISSEMENT	
Do Not Remove, Destroy, or Cover This Label		Ne pas retirer, détruire ni couvrir cette étiquette	
	PROTECT yourself and others. ARC PROCESSES can be hazardous. • Before use, read and follow all labels, the manufacturer's instruction manual, employer's safety practices, and Material Safety Data Sheets (MSDSs) • Only qualified persons are to install, use, or service this equipment • Pacemaker wearers keep away • Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.		SE PROTÉGER et protéger les autres. Les PROCÉDÉS À L'ARC ÉLECTRIQUE peuvent être dangereux. • Avant utilisation, lire et respecter l'ensemble des étiquettes, les instructions de service du fabricant, les pratiques de sécurité de l'employeur et les fiches techniques de sécurité du matériau. • Seules des personnes qualifiées sont autorisées à installer, utiliser ou assurer l'entretien de cet équipement. • Les personnes portant un stimulateur cardiaque doivent rester à l'écart. • Les batteries endommagées ou modifiées peuvent avoir un comportement imprévisible susceptible de provoquer un incendie, une explosion ou un risque de blessure.
	ELECTRIC SHOCK can kill. • Do not touch live electrical parts. • Always wear dry insulating gloves. • Insulate yourself from work and ground. • Disconnect input power before servicing unit. • Welding wire and drive parts may be at welding voltage.		Les DÉCHARGES ÉLECTRIQUES peuvent être mortelles. • Ne pas toucher les composants électriques sous tension. • Toujours porter des gants isolants secs. • S'isoler de la zone de travail et de la terre. • Déconnecter l'alimentation d'entrée avant de procéder à l'entretien de l'unité. • Le fil d'apport et les composants d'entraînement peuvent être porteurs de la tension de soudage.
	FUMES AND GASES can be hazardous to your health. • Keep your head out of the fumes. • Use enough ventilation, exhaust at the arc, or both to keep fumes and gases from your breathing zone and the general area. • Under abusive conditions, liquid may be ejected from the battery, avoid contact.		Les FUMÉES ET GAZ peuvent être nocifs pour la santé. • Garder la tête à l'écart des fumées. • Utiliser une ventilation suffisante, un échappement au niveau de l'arc électrique, voire les deux pour maintenir les fumées et les gaz à l'écart de la zone de respiration et de la zone générale. • En cas d'utilisation abusive, du liquide peut être éjecté de la batterie, éviter tout contact.
	SPARKS AND SPATTER can cause fire or explosion. • Do not use near flammable material. • Do not use on closed containers.		La FORMATION DE PROJECTIONS ET D'ÉTINCELLES peut provoquer un incendie ou une explosion. • Ne pas utiliser à proximité d'un matériau inflammable. • Ne pas utiliser sur des contenants fermés.
	ARC RAYS can injure eyes and burn skin. NOISE can damage hearing. • Wear correct eye, ear, and body protection.		Les RAYONS D'ARC ÉLECTRIQUE peuvent provoquer des blessures oculaires et des brûlures. Le BRUIT peut endommager l'ouïe. • Porter une protection oculaire, auditive et corporelle adaptée.

See American National Standard Z49.1 "Safety in Welding, Cutting, and Allied Processes", download at www.aws.org published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126; OSHA Safety and Health Standards, 29 CFR 1910, download at www.osha.gov created from the U.S. Government Printing Office. CSA, W117.2 Code for Safety in welding, cutting, and allied processes 42,0409,5074

An instruction manual is provided with each machine shipped that includes the safe installation and usage of the equipment and includes the information in Standard CAN/CSA E60974-1 and references CSA Standards W117.2, ANSI Standard Z49.1 as applicable for each machine (See 2669413 Att4 Appendix-C for Operating Manual, Appendix C supersedes Appendix A and B covering models per Edition 3). Additional safety markings/symbols are provided in a location clearly visible to the operator (see Ill. 4). A detailed explanation of symbols is also provided in both English and French versions of the operating manuals.

Input power connections of the replacement cord, including ground are labeled adjacent to the input terminal.

Notes:

Products certified under Class C561103 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

