SHIFTING THE LIMITS

EMF DATASHEET FOR ARC WELDING POWER SOURCE

EQUIPMENT INFORMATION

Manufacturer	Fronius
Model	TPS 500i CMT; TPS 500i CMT /nc; TPS 500i CMT /MV/nc; TPS 500i CMT /600V/nc
Model Number	4,075,187; 4,075,187,800; 4,075,187,830; 4,075,187,970
Intended use	☒ occupational ☐ by laymen

BASIC INFORMATION

Applied Regulations	Directive 2014/35/EU
Referenced Limits	Directive 2013/35/EU, Recommendation 1999/519/EC
Applied Standards	EN 62822-1:2016, EN 62822-2:2016

Non-thermal effects need to be considered for the workplace assessment	☒ yes	☐ no
Thermal effects need to be considered for the workplace assessment	☐ yes	☒ no

☒ Data based on maximum power source capability
☐ Data based on worst case setting/program
☐ Data based on multiple settings / programs

COMPLIANCE SUMMARY

Compliance with ELVs for health effects at standardized configurations	☒ yes	☐ no
Compliance with ELVs for sensory effects at standardized configurations	☒ yes	☐ no
All values below the Action Levels at the standardized configurations	☐ yes	☒ no

NON-THERMAL EFFECTS

	HEAD		TRUNK	LIMB HAND	LIMB THIGH
	SENSORY EFFECTS	HEALTH EFFECTS			
Standardized distance	10.00 cm	10.00 cm	10.00 cm	3.00 cm	3.00 cm
EI at standardized distance	0.48	0.43	0.70	0.40	0.91
Required minimum distance	4.00 cm	3.00 cm	6.00 cm	1.00 cm	3.00 cm

Distance where all EIs fall below 20:%	57.90 cm
Distance where compliance with general public limits is reached:	5.00 m

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