Product datasheet
DOC # 803-00011 REV A00

Static Transfer Switch (STS)

PowerFlo Solutions

Category	Specification	Detail
General Characteristics	Power Semiconductors:	Fully Rated
	Cooling:	Redundant Fans with Failure Sense
	Construction:	Copper Busbar
	Deadfront:	Bolt On
	Cable Paths:	Top/Bottom Entry/Exit
	Power Supplies:	Triple Redundancy
	Control Logic:	Tri Redundant Microprocessor PCBs
		Redundant SCR Drivers
	Surge Protection:	Up to 100 kA on each source
	Output Load Switches:	Redundant standard (6 MCS), Non-Redundant option (5 MCS)
	Protection:	Upstream OCPD required
Dimensions (W x D x H):	400-600A	30″ x 36″ x 84″
	800-1200A	42″ x 36″ x 84″
	1600-2000A	84" x 36" x 90"
Standards	Safety	ETLus to UL 1008S
	Enclosure Type:	NEMA Type 1
	EMC:	C2 category IEC 62310-2, FCC part 15
Communications	Alarm Relays:	4
	Building Alarm Inputs:	2
	EPO:	Remote
	Communications:	Modbus TCP/IP
	Service Port:	RS232
	Event Alarm Log:	1000 Events
Electrical Characteristics	Voltage:	208V, 480V, Custom
	Frequency:	60 Hz
	Current:	400, 600, 800, 1000, 1200A, 1600A, 2000A
	Short Circuit Ratings:	65 and 100 kAIC options
	Input/Output:	3-phase, 3W + G

Copyright © 2025 PowerFlo Solutions Ltd. All trademarks are the property of their specific owners. PowerFlo Solutions has a policy for continued improvement. Specifications are subject to change without notice.

Static Transfer Switch (STS)

PowerFlo Solutions

Category	Specification	Detail
Electrical Characteristics Cont.	Overload Capacity:	110% for 60 minutes
		125% for 30 minutes
		150% for 2 minutes
		200% for 10 seconds
		1500% for 1 cycle
Operational Characteristics	Full Load Efficiency	Up to 99.45% (480V)
	Sense + Transfer Time (In Phase)	4 ms
	Sense + Transfer Time (Out of Phase)	15 ms maximum
	Downstream PowerFlo transformer inrush	< 1.2x nominal transformer rating
	Bypass	4 Kirk Key Standard, Manual and Guided
	Operating Temperature:	0 to 40°C
	Storage Temperature:	-40 to 60°C
Power Quality & Metering	Loss of source detection	1-2 ms
	Waveform Capture:	Six plots Source voltages and currents (A, B, C) Output voltage and current (A, B, C)
Environmental	Operating Temperature:	0 to +40°C (32 to +104°F)
	Storage Temperature:	-25 to +70°C (-13 to +158°F)
	Maximum Relative Humidity (non-condensing):	95%
	Maximum Altitude without Derating:	3280 ft / 1000 m a.s.l.
	Acoustic Level at 1m	≤ 60 dBA (400-600A) ≤ 65 dBA (800-1200A)

Copyright © 2025 PowerFlo Solutions Ltd. All trademarks are the property of their specific owners. PowerFlo Solutions has a policy for continued improvement. Specifications are subject to change without notice.