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E200 SERIES

AUTOMATIC TRANSFER SWITCH

OVERVIEW

The E200 series ATS is built using the Socomec ATyS motorized automatic transfer switch; the ATyS ATS is built for standard applications requiring the dependability and ease of operation found in a motorized contactor switch.

DESIGN & FEATURES

- Designed for emergency and standby applications
- Double throw, mechanically interlocked contactor mechanism
- Open transition, break-before-make. Delayed transition supported
- Voltages from 208 to 600V, 1-Phase and 3-Phase, 2, 3 and 4 Poles
- Ratings 100 to 1200 amps
- Optional: built in metering: Voltage, Frequency Current, Power factor
- Front mounted manual push button switch (password protected)
- Front mounted test switch (load/no load) to simulate Source 1 (normal) failure
- Centralized termination point for ease of installation that includes contacts for engine start
- CSA/EEMAC/NEMA Certified Type 1 enclosures— other ratings available (3R/4)

CONTROLLER

The E200 automatic transfer switch is equipped with the **Socomec C66 controller,** which controls the operation and displays the status of the transfer switch's position, timers and available sources. As an embedded digital controller, the C66 offers high reliability and ease of unattended operation across a range of applications.

CONTROLLER FEATURES

- Timer and voltage/frequency settings adjustable without disconnection from the power source
- 3000 event log displaying everything happening in the controller and transfer switch with time stamps and descriptions
- LED indicators for ease of viewing
- RTC—clock battery backup not required for standard switch operation

C66 CONTROL PANEL STANDARD FEATURES

6/P	Test Switch
A3	Auxiliary Contact: Closed when the switch is in the Source 2 position (S2)
A4	Auxiliary Contact: Closed when the switch is in the Source 1 position (S1)
CALI	Capabilities are available for Frequency and AB, BC, CA phase to phase voltage for both Sources
EE	4 customizable engine start programs and schedules
E	Engine Start Contact
EL	3000 Event Log displays information in the controller and transfer switch with a timestamp and event description
J1E	Adjustable under frequency sensor for S2
K/P	Voltage and Frequency Indication for S1 and S2
L	Indicating LED Pilot Lights: • L1 Indicates switch in S2 position • L2 Indicates switch in S1 position • L3 Indicates S1 source available • L4 Indicates S2 source available
P1	Time Delay to Engine Start
T	Time Delay on Retransfer to Normal: To delay retransfer to S1 (immediate retransfer on S2 failure)
R2E	Under voltage sensing of S2
U	Time Delay for Engine Cool Down: Allows engine to run unloaded after switch retransfer to S1
W	Time Delay on Transfer to Emergency: To delay transfer to S2 after availability
YEN	Pushbutton Bypass of ActiveTimers

MODEL CONFIGURATIONS

Amperage	Poles	Voltage	Standard/Fused WCR
100A 150A 200A	2, 3, 4	A = 600V B = 208V C = 240V D = 416V E = 480V	Standard: 100A-200A – 10kA Fused: 100kA
225A 400A	2, 3, 4		Standard: 14kA Fused: 65kA
600A 800A 1000A 1200A	3, 4		Standard: 35kA Fused: Not Available

REFERENCE CHARTS

Standard C66 Control Setting Ranges		
Control Function	**Range**	**Factory Setting**
Source 1 Line Sensing - Under-voltage Dropout/Pickup	60-98% 61-99%	85% 95%
Source 2 Line Sensing - Under-voltage Dropout/Pickup	60-98% 61-99%	85% 95%
Source 1 Line Sensing - Under-frequency Dropout/Pickup	60-98% 61-99%	95% 97%
Time Delay - Engine Start (P1)	0-60 seconds	1 second
Time Delay - Engine Cool Down (U)	0-600 seconds	300 seconds
Time Delay - Transfer to Source 2 (W)	0-60 seconds	1 second
Time Delay - Retransfer to Source 1 (T)	0-3600 seconds	180 seconds
Engine Exerciser (EE) yearly, semi-yearly (every 6 months), bimonthly (every 2 months), monthly, 28 days, biweekly (every 2 weeks),weekly, every 2 days, daily or NON CYCLIC (no repetition, single use).		168 mins idle time
Options		
Delayed Transition	0-20 seconds	3 seconds

E200 Screw Type Terminals for External Power Connections			
Switch Size (Amps)	**Normal, Emergency and Load Terminals**		
	Cables Per Phase & Neutral	**Range of Wire Sizes**	
100, 150, 200	1	#6 to 300 MCM	16-150 mm^2
225, 400	2 (Single barrel lug that accepts 2 wires)	#4 to 600 MCM	21-304 mm^2
600	2	#2 to 600 MCM	33-304 mm^2
800, 1000, 1200	4		

ACCESSORIES

Type	Description
Communications	Modbus RTU/TCP, BACnet IP, SNMP v1, v2, v3 & Traps, HTTPS, FTPS, SMTPS, SNTP, DHCP
Digital Metering	Voltmeter Ammeter Frequency Meter
T3/W3 Elevator Relay	Pre-signal on Retransfer to Normal or Emergency. 1 relay supports 2 Elevators • ***E200 does not include a relay, available as an option***
Auxiliary Contacts	Source Position Contacts
Heater & Thermostat	Enclosure temperature management
Programmable Contact	User programmable contact (Up to 3)
Load Shed	Load Shed to Neutral Contact
Transfer Inhibit	Transfer inhibit disables automatic transfer from priority source to non-priority source

DIMENSIONAL & WEIGHT SPECIFICATIONS

Ampere Rating	Poles	NEMA 1				Weight	Application Notes
		Height (A)	Width (B)	Depth (C)	Ref. Figure	NEMA 1	
100, 150, 200	2, 3	24 (60)	20 (50)	13 (33)	1	66 (30)	1-5
225, 400	2, 3, 4	40 (100)	28 (70)	16 (40)	2	98 (44)	1-5
600	3, 4	48 (120)	36 (91)	21 (53)	3	162 (73)	1-5
800, 1000, 1200	3	60 (150)	36 (91)	21 (53)	4	185 (83)	1-5

1. Metric dimensions (cm) and weights (kg) shown parentheses adjacent to Imperial measurements.
2. Depth includes 1" door projection. Allow a minimum of 3" additional depth for projection of handle, lights, switches, pushbuttons, etc.
3. All dimensions and weights are approximate and subject to change without notice.
4. Packing materials must be added to weights shown. Allow 15% additional weight for cartons, skids, crates, etc.
5. Special enclosure NEMA 3R/4 dimensions and lay-outs may differ. Consult EEP for details.

REFERENCE FIGURES

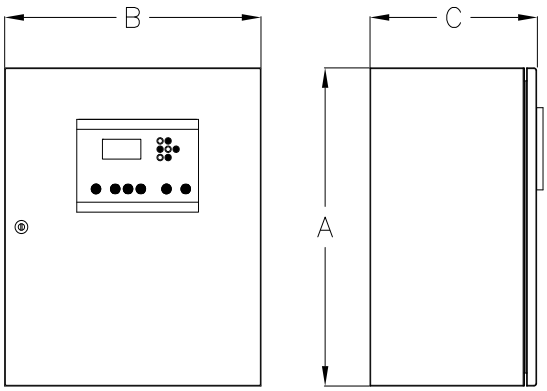

FIGURE 1

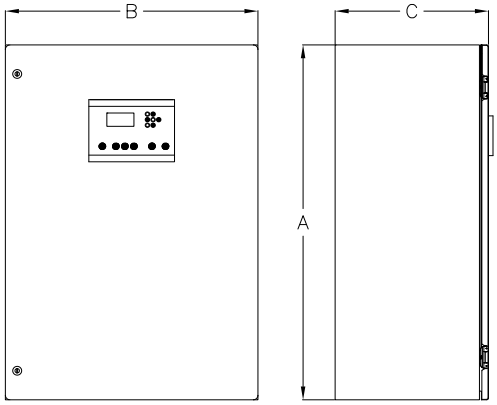

FIGURE 2

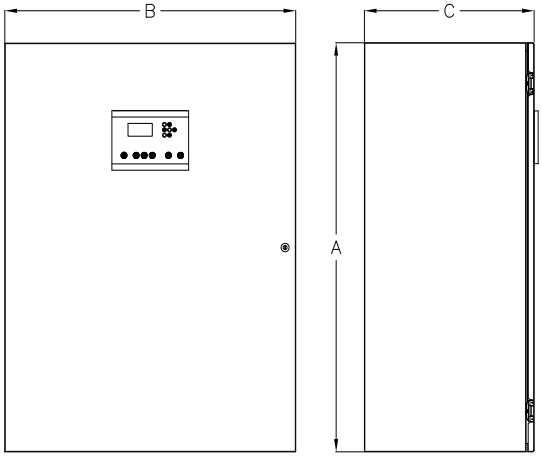

FIGURE 3

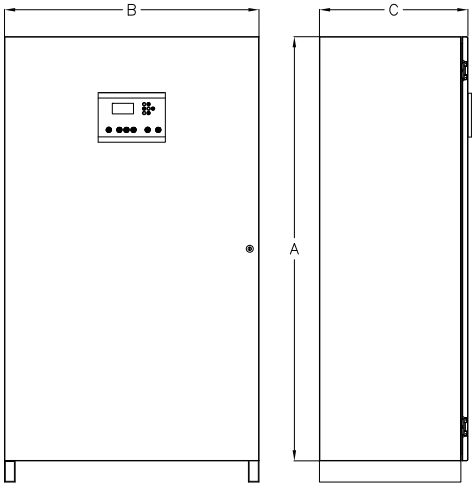

FIGURE 4