

EN1000 Series Cascade/Multi-Valve Controls

Multiple Schedule/Multiple Sequence Controls

Date: April 2006 Supercedes: October 2001

SPECIFICATIONS

Absolute Count: Push Button Data Entry with Display

 Squeeze Count:
 0 to 99 cyc, 50/60 Hz

 Weld Count/Heat Count:
 0 to 99 cyc, 50/60 Hz

 Cool Count:
 0 to 99 cyc, 50/60 Hz

 Hold Count:
 0 to 99 cyc, 50/60 Hz

 Off Count:
 0 to 99 cyc, 50/60 Hz

 Weld Impulse Counter:
 1 to 99 Impluses

 Slope Control/Up and Down Slope:
 0 to 99 cyc, 50/60 Hz

Digital Phase Shift Current Control, 10 to 99% in 1% current steps, all weld current functions

It is NOT necessary to program functions NOT required, program only functions required

Standard RWMA/NEMA Programmable Functions

Including the following as examples:

Up Slope and Down Slope

Quench/Temper

Pulsation Sequence

Multi-Weld Count/Multi-Current Select

Pre-Heat/Post-Heat

Forge Delay

4 Cycle Modes

Non-Repeat: Single Schedule upon initiation

Repeat: Single Schedule repeated with pilot circuit held closed

Successive: Upon each initiation, unique successive schedules are automatically

selected

Chained: Multiple schedules can be linked to operate sequentially upon a single

initation

Additional Features

Error Code/Fault Outputs

87° First Half Cycle Delayed Firing, Anti-Saturation Circuit

Dynamic Automatic Power Factor Equalization

Dynamic Automatic Voltage Compensation, ±20% of Nominal Line

Emergency Stop Circuit

Interlocking Pressure Switch Circuit

Single Stage Pilot/2 Stage Pilot, Beat/Non-Beat Operation

Indicator Lights: Weld Contactor Output Position Indicators

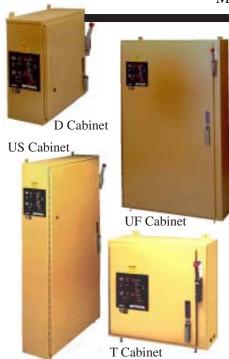
Valve Output Position Indicators

Indicator Lights for all functions on display panel Valve Transformer: 150VA 230/460-115V, Standard Order 1 - 8 contactors; 8 Valve outputs standard, all controls



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The EN1000 Cascade/Mulit-Valve Series Control is ideal for programming schedules for single or multiple transformer resistance welding machines with multiple valve operations.

•Store up to 100 UNIQUE SCHEDULES

Every parameter of each schedule individually accessible
Each schedule can store 13 distinct and totally different parameters
All schedules retained in memory with power off

- It is NOT NECESSARY to program functions not required
 •Four Cycle Modes can be programmed for complex welding schedules
- •Select and Program up to 8 VALVE CIRCUITS, STANDARD Independently selectable and programmable
- •Control can be configured with 1 to 8 CONTACTORS, independently selectable and programmable
- Process Control Outputs
- Additional Standard Features:

External Schedule Select

Contactor Failed Detection (Circuit breaker with shunt trip, optional)

•Control can be INTERFACED with external Programmable Logic Control (PLC); Advanced interfaces available

CABINET STYLE & DIMENSIONS				CONTACTOR STYLE & RATINGS				
STYLE	Н	W	D	AIR COOLED	W	WATER COOLED		
D or T	610 mm 24"	645 mm 25-3/8"	254 mm 10"	Firing Circuit or 300A	1200A			
LS or LF	914 mm 36"	794 mm 31-3/8"	254 mm 10"	Firing Circuit or 300A	1200A	1800A		
HS or HF	1067 mm 42"	949 mm 37-3/8"	254 mm 10"	Firing Circuit or 300A	1200A	1800A	2200A	
GS or GF	1219 mm 48"	949 mm 37-3/8"	254 mm 10"		1200A	1800A	2200A	
US or UF	1524 mm 60"	949 mm 37-3/8"	254 mm 10"		1200A	1800A	2200A	

- Vault Closing Door Mechanism Standard on all enclosures.
- •Water barrier between contactors and electronic components in L, H, G, and U Cabinets.
- All SCR contactors complete with temperature limit switch.

See COMPREHENSIVE PRICE LIST for a complete list of Options, Circuit Breakers, Accessories and Special Features.

Contact your ENTRON Controls Representative or Your Local Resistance Welding Equipment Source



