

# SolaHD INDUSTRIAL CONTROL TRANSFORMERS

SolaHD offers a broad range of industrial control solutions for the most demanding industrial applications. Our products exceed NEMA ratings regulation to ensure control systems are powered correctly. Electromagnetic control components demand inrush currents up to 10 times the transformer's nominal rating. While this inrush is occurring, the output side of the transformer must not fall below 85% of nominal as specified by NEMA ST-1, Part 4. Using a transformer that does not meet these ratings may cause erroneous shutdowns of downstream processes.



## CHOOSING THE CORRECT SERIES

To meet your complete control needs, SolaHD's four series of control transformers, all of which exceed the NEMA standards. The Selection Chart can be used to identify the appropriate transformer for your application.

### Selection Chart

VA	SBE ENCAPSULATED					SBE OPEN (SZO)	SMT OPEN	HSZ * TYPE 3R		
	--	DE		JL	JN	--	--	--	AR	
Temp	55°C						115°C8	0°C		
50	E050	E050D	E050E	E050JLE	050JN					
75	E075		E075E							
100	E100	E100D	E100E	E100JLE	100JN					
150	E150		E150E		E150JN					
200	E200		E200E							
250	E250	E250D	E250E	E250JLE	250JN					
300	E300		E300E							
350	E350		E350E							
500	E500	E500D	E500E	E500JLE	500JN					
750	E750		E750E							
1000	E1000						T1000	HZ1000	HZ1000A	HZ1000R
1500						Y1500	T1500	HZ1500	HZ1500A	HZ1500R
2000						Y2000	T2000	HZ2000	HZ2000A	HZ2000R
3000						Y3000	T3000	HZ3000	HZ3000A	HZ3000R
5000						Y5000	T5000	HZ5000	HZ5000A	HZ5000R
75000								HZ75000	HZ75000A	HZ75000R
100000								HZ100000	HZ100000A	HZ100000R

\*Change HZxxxx to HZ12xxxx for Type 12 or 4 applications or HZ4xxxx for Type 4X applications.

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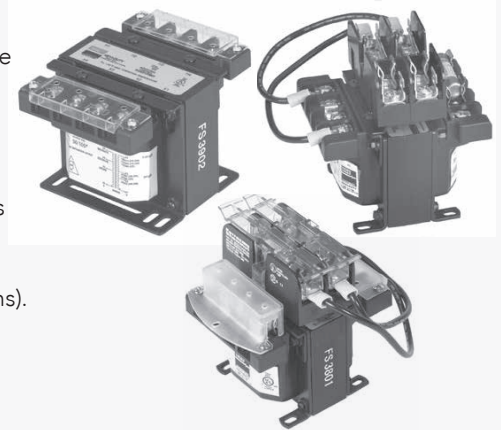
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## The SBE - Encapsulated, Copper Wound Series

The SBE Encapsulated industrial control transformers are epoxy encapsulated to seal the transformer windings against moisture, dirt and industrial contaminants. Extra deep, molded terminal barriers reduce the chance of electrical failure as the result of arcing or frayed lead wires. The rugged construction and proven reliability of the SBE design is uniquely suited for all industrial environments.

### Features

- › 50 - 1000 VA, 50/60 Hz – suitable for worldwide applications.
- › Interleaved copper windings reduce I2R losses and maximize efficiency.
- › 55°C Rise, 105°C insulation system to minimize heat
- › Epoxy encapsulated to protect cores and coils against moisture, dirt, and other contaminants.
- › Meets or exceeds NEMA Standard ST-1 and ANSI C89.1 for load inrush capability.
- › Integrally molded, flame retardant (IEC 707/ISO Class 1210) Terminal Blocks provide greater terminal contact area and improved conductivity.
- › Heavy gauge steel mounting plate
- › Mounting dimensions are compatible with similar control transformers.
- › Secondary fuse holders (FB2X) included for 13/32 x 1½ cartridges (fuses not included).
- › Factory-installed fuse holders are available (See W, WA & WB options).
- › Ten year limited warranty



## SBE - Open Style, Copper Wound - SBE performance in larger VA (1500 - 5000) sizes

The open style SBE Series provides voltage regulation in excess of NEMA recommendations without exceeding 55oC rise. These higher power capacity transformers are the best choice when 80% or more of the load components are electromagnetic devices.

### Features

- › Interleaved copper windings reduce I2R losses and maximize efficiency.
- › Ratings 60 Hz unless noted 50/60 Hz
- › Meets or exceeds electrical requirements of NEMA, ANSI, NMTBA and JIC
- › 55°C rise, 105°C insulation system
- › High quality silicon steel core

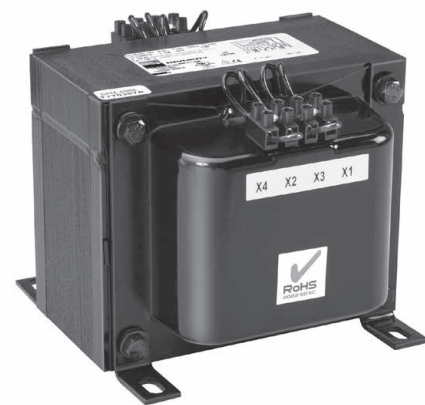


## ICE International Series: 750 - 2000 VA

International CE marked transformers include IP20 touchproof terminations and copper windings in an encapsulated design. These units range from 750 to 2000 VA with 80oC temperature rise. The design is highly flexible due to the use of the standardized primary coil for multiple worldwide voltage combinations. CE marked and cULus approval make the ICE International Series the perfect choice for OEM export equipment.

### Features

- › IP20 Touch-Proof terminals
- › Copper windings
- › Epoxy encapsulated for cooler operation and increased reliability
- › 80oC rise temp, 130oC insulation system for harsh, heavy-duty standards
- › 50/60 Hz Frequency
- › Meets or exceeds electrical requirements of NEMA, ANSI and IEC



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