

**HSZ Series Industrial Control Transformers**

The HSZ series is for applications where cost or heat issues make mounting the transformer outside the control panel necessary. This series has 80°C rise and have copper winding for industrial applications.

**Features**

- UL Class 180°C insulation system, 80°C temperature rise under full load
- Meets or exceeds NEMA regulation standards
- Copper windings
- Encapsulated
- UL Listed/NEMA Type 3R (rain proof)



**Optional Styles**

- UL Listed/NEMA Type 4 (wash down & dust proof)
- UL Listed/NEMA Type 4X (corrosion proof)
- UL Listed/NEMA Type 12 (dust proof)



**Certifications and Compliances**

- cULus Listed: E77014
  - UL 506
  - CSA C22.2 No. 66
- RoHS Compliant

**Related Products**

- Linear Power Supplies
- DIN Rail DC Power Supplies
- Constant Voltage Transformers

HSZ Design Style 1 - Type 3R



HSZ Design Style 2 - Type 4, Type 4X, Type 12



### HSZ Series Selection Tables and Electrical Connections

#### Group 1 – 240/480, 230/460, 220/440 Volt Primary, 120/115/110 Volt Secondary, 50/60 Hz

kVA	Catalog Number Type-3R	Catalog Number Type-4/12	Catalog Number Type-4X	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)
1	HZ1000	HZ12-1000	HZ4X-1000	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	43.0 (19.55)
1.5	HZ1500	HZ12-1500	HZ4X-1500	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	55.0 (25.00)
2	HZ2000	HZ12-2000	HZ4X-2000	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	68.0 (30.91)
3	HZ3000	HZ12-3000	HZ4X-3000	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	108.0 (49.09)
5	HZ5000	HZ12-5000	HZ4X-5000	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	138.0 (62.73)
7.5	HZ7500	HZ12-7500	HZ4X-7500	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	173.0 (78.64)
10	HZ10000	HZ12-10000	HZ4X-10000	17.00 (431.8)	17.00 (431.8)	12.00 (304.8)	210.0 (95.45)



Primary Voltage	Interconnect	Connect Lines to
480	H2-H3	H1 & H4
240	H1-H3, H2-H4	H1 & H4
Secondary Voltage	Interconnect	Connect Lines to
120	—	X1 & X2

#### Group 2 – 230/460/575 Volt Primary, 115/95 Volt Secondary, 50/60 Hz

kVA	Catalog Number Type-3R	Catalog Number Type-4/12	Catalog Number Type-4X	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)
1	HZ1000A	HZ12-1000A	HZ4X-1000A	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	43.0 (19.55)
1.5	HZ1500A	HZ12-1500A	HZ4X-1500A	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	55.0 (25.00)
2	HZ2000A	HZ12-2000A	HZ4X-2000A	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	68.0 (30.91)
3	HZ3000A	HZ12-3000A	HZ4X-3000A	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	108.0 (49.09)
5	HZ5000A	HZ12-5000A	HZ4X-5000A	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	138.0 (62.73)
7.5	HZ7500A	HZ12-7500A	HZ4X-7500A	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	173.0 (78.64)
10	HZ10000A	HZ12-10000A	HZ4X-10000A	17.00 (431.8)	17.00 (431.8)	12.00 (304.8)	210.0 (95.45)



Primary Voltage	Interconnect	Connect Lines to
230	H1-H3, H2-H4	H1 & H4
460	H2-H3	H1 & H4
575	H2-H3	H1 & H5
Secondary Voltage	Interconnect	Connect Lines to
115	—	X1 & X3
95		X1 & X2

#### Group 3 – 480 Volt Primary, 240 Volt Secondary, 50/60 Hz

kVA	Catalog Number Type-3R	Catalog Number Type-4/12	Catalog Number Type-4X	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)
1	HZ1000R	HZ12-1000R	HZ4X-1000R	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	43 (19.55)
1.5	HZ1500R	HZ12-1500R	HZ4X-1500R	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	55 (25.00)
2	HZ2000R	HZ12-2000R	HZ4X-2000R	12.00 (304.8)	10.00 (254.0)	7.00 (177.8)	68 (30.91)
3	HZ3000R	HZ12-3000R	HZ4X-3000R	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	108 (49.09)
5	HZ5000R	HZ12-5000R	HZ4X-5000R	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	138 (62.73)
7.5	HZ7500R	HZ12-7500R	HZ4X-7500R	17.00 (431.8)	14.00 (355.6)	9.00 (228.6)	173 (78.64)
10	HZ10000R	HZ12-10000R	HZ4X-10000R	17.00 (431.8)	17.00 (431.8)	12.00 (304.8)	210 (95.45)



Primary Voltage	Interconnect	Connect Lines to
480	—	H1 & H2
Secondary Voltage	Interconnect	Connect Lines to
240	—	X1 & X2

Note: Contact Technical Services for lead times on enclosures.