

## **HS-4P**

### **30 Amp RF Contactor**

The Harris HS-4P 30 Amp RF Contactor is unlike any product on the market today. Simple in design, it achieves a high degree of reliability through smooth operation, giving you trouble-free use in phasors, antennas, transmitter dummy load switching, or any similar RF switching application.

Harris' 30 Amp RF Contactor features a revolutionary design. Unlike earlier model switches which operate by the violent action of a solenoid that accelerates the fatigue of the device, the Harris RF Contactor accomplishes transfer through smooth conversion of rotary to linear motion. Rotary motion is supplied by a powerful AC motor through a high reduction gear box, then transferred to linear motion by a simple cam. Not only is remarkable life expectancy achieved by avoiding the high impact method of operation, but none of the moving parts requires any maintenance!

#### **FEATURES/BENEFITS**

- ▶ No adjustments required
- ▶ Thirty years of life under normal use
- ▶ 1/16 the power requirement of conventional contactors
- ▶ Reliable operation under wide temperature range
- ▶ Smooth and quiet motor-driven operation
- ▶ Silver plated contacts



## HS-4P 30 AMP RF Contactor Specifications

Designed for rugged performance, the Harris RF Contactor handles 30 amperes of RF current in the medium wave broadcast band. High voltage insulation properties are rated as high as 30 kV peak, 60 Hz test. Smooth operation has been demonstrated to -30°F, and acceptable performance is attainable to -50°F.

Cycling time is extremely fast—less than 0.5 second. What's more, power consumption is considerably less than that of older solenoid contactors, resulting in less of a voltage drop over long control lines. This means smaller wire gauges can be used, thereby lowering installation costs.

Every unit is individually tested to ensure the highest level of quality control. Precision manufacturing of all component parts further assures optimum performance with absolutely no adjustments. The Harris RF Contactor also may be manually operated.

**Frequency Range:** 540 kHz to 1750 kHz

**RF Current Capability:** 30 amperes

**RF Test Voltage:** 30 kV peak any contact to chassis. 22 kV peak between any two contacts. (60 Hz test voltages)

**Power Requirements:** 208/230 VAC, 50-60 Hz at one ampere

**Ambient Operating Range:** -30°F to 130°F

**Status Indicators:** Microswitches provided for external indicators or interlocks

**Transfer Time:** less than 0.5 seconds

**Operating Mode:** RF contacts form ZZ, DPDT

**Main Frame:** heavy aluminum enclosure

**Insulating Material:** special high voltage polyester glass fiber

**Contacts:** high quality tempered beryllium copper, silver plated

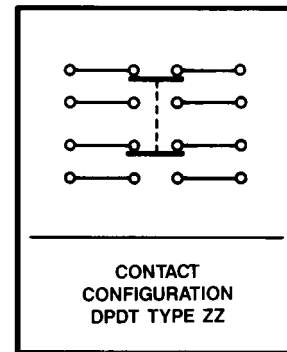
**Weight:** 7.0 pounds (3.18 kg)

### DIMENSIONS

**Height:** 7.0 inches (19 cm)

**Length:** 12.0 inches (31 cm)

**Width:** 7.0 inches (18 cm)



Specifications subject to change without notice.

**HARRIS**  
Communications

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