

HX301 Series Transfer Switch 100 – 400 Amps

Contactor Type · Open and Delayed Transition · Service Entrance Rated

DESCRIPTION

The Honeywell contactor type transfer switches are double-throw robust switch construction with inherent interlocks to ensure safe positive transfer between power sources. The contacts are silver composite for long life, resisting pitting or burning. The switches are rated for full load transfers in mission critical, emergency, legally required, and optional power systems.

The microprocessor based controller provides the customers with the flexibility to program a comprehensive group of set points to match the application needs. The controller has two programmable inputs and one programmable output as standard and is available with an optional expansion board for up to four programmable inputs and outputs. The LCD displays real time and historical information with time-stamped events. The integrated plant exerciser can be configured in off, daily, day of week, biweekly, and monthly intervals with user selectable run time. Standard features of the controller include three phase sensing on both sources, phase unbalance, phase reversal, load shed, emergency inhibit, and communications.



FEATURES & BENEFITS

- Automatic Transfer Switch
- Single or Three Phase
- 2, 3, or 4 Poles
- NEMA 1 or 3R
- Open and Inphase or Open with Delayed Transition
- 100 – 400 A, up to 480 VAC, 50/60 Hz, 100% Current Rated
- ETL Listed to UL 1008
- High Withstand and Closing Ratings

HX301 Series Transfer Switch 100 – 400 Amps Standard Features

GENERAL

- Small Footprint, Results in Easy Mounting and Installation for Reduced Time and Costs
- Cable Entry is Top or Bottom (400A Units are Bottom Only)
- Double-Throw, Stored Energy Transfer Mechanism
- Can be Electrically Isolated while Energized
- Graphical LCD-Based Display for Programming, System Diagnostics and Help Menu Display Mimic
- Diagram with Source Available and Connected LED Indicator
- Time-Stamped Event History Log
- Programmable Exerciser - Daily, Weekly, Bi-Weekly, Monthly
- Method of Transfer: Open with Inphase Transition
- Mechanically Interlocked to Prevent Connection of Both Sources
- Modbus[®] RTU Communications
- HXC 100 Controller
- Operating Temperature -4 ° to 158 °F (-20 ° to 70 °C)
- Removable Top and Bottom Plates for Ease of Entry
- Voltage Agnostic*
- High Withstand and Closing Ratings
- Heater Kit Standard on All 3R Enclosures
- Auxiliary Output Includes: Two Wire Start, Signal Before Transfer, Fault, and a Programmable Relay Output
- Auxiliary Input Includes: Permissive Inputs (24 VDC)
- General Alarm Indication
- 2 Year Standard Warranty

*480 V Delta Must be Specified at Time of Ordering for Transformer Kit to be Included

VOLTAGE AND FREQUENCY SENSING

- Three Phase Under and Over Voltage Sensing on Normal and Emergency Sources
- Under and Over Frequency Sensing on Normal and Emergency
- Selectable Settings: Single or Three Phase Voltage
- Sensing on Normal, Emergency and Load 50 or 60 Hz
- Phase Sequence Sensing for Phase Sensitive Loads

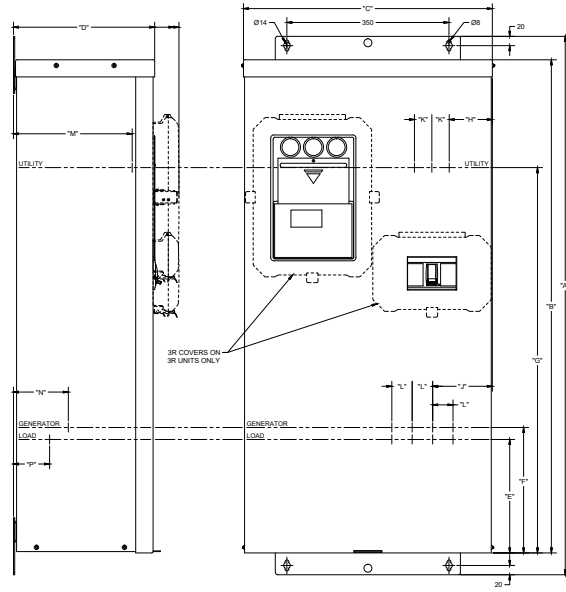
CONTROLS

- Front Programmable Control Reduces PPE Needs and Arc Flash Hazard
- Built in Battery Backup - Increases Switch Reliability and Reduces Switch Transition Time to Alternate Source
- Battery Backup Able to Power the Controller for up to 60 Minutes in the Event of No Source Availability
- Accessible USB Port for Easy Data Downloads, Firmware Updates without Requiring PPE, Reducing the Risk of Arc Flash
- All Amp Nodes Offered with Delayed Transition
- Heater Programmable through Control for Desired Temperature and Humidity Settings
- Front Accessible Customer Connections

Available Options

- Chicago Code Kit
- 3R Padlockable Cover for Controller (Standard on 3R Enclosure)
- 3R Padlockable Cover for Service Entrance Breaker (Standard on 3R Enclosures)
- Emergency Inhibit
- Selectable Retransfer
- Manual Generator Retransfer
- Type 1 to 3R Conversion Kit
- Generator Battery Backup for Controller
- Heater Option for Temperature and Humidity Control (Standard on 3R Enclosure)
- Time Delay in Neutral Transition (TDN), or Inphase with a Default to Time Delay in Neutral Transfer
- Expandable Input/Output Board Module Includes: 4 Relay Outputs and 4 Optically Isolated Inputs
- 2 Year Extended Limited Warranty
- 5 Year Basic Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

HX301 Series Transfer Switch 100 – 400 Amps Unit Dimensions



Service Entrance Rated, Contactor Type, Open and Delayed Transition, 100 – 400 A

Description	in (mm)																Cu/Al					lbs (kg)
	A (Height)	B (Height)	C (Width)	D (Depth)	E (Dim)	F (Dim)	G (Dim)	H (Dim)	J (Dim)	K (Dim)	L (Dim)	M (Dim)	N (Dim)	P (Dim)	Normal 75 °C Wire	Standby Source 75 °C Wire	Load 75 °C Wire	Neutral Connection	Ground Connection	Weight		
100A SER NEMA 1	51.4 (1.305)	47.5 (1.206)	21.4 (544)	12.0 (305)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 3/0 - 6	(1) 2/0 - 14	(1) 2/0 - 14	(5) 2/0 - 14	(6) 1/0 - 14	154.3 (70)		
100A SER NEMA 3R	51.4 (1.305)	47.5 (1.206)	21.4 (544)	14.1 (358)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 3/0 - 6	(1) 2/0 - 14	(1) 2/0 - 14	(5) 2/0 - 14	(6) 1/0 - 14	158.7 (72)		
150A SER NEMA 1	51.4 (1.305)	47.5 (1.206)	21.4 (544)	12.0 (305)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 250 - 6	(1) 250 - 6	(1) 250 - 6	(5) 350 - 6	(5) 350 - 6	165.3 (75)		
150A SER NEMA 3R	51.4 (1.305)	47.5 (1.206)	21.4 (544)	14.1 (358)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 250 - 6	(1) 250 - 6	(1) 250 - 6	(5) 350 - 6	(5) 350 - 6	169.8 (77)		
200A SER NEMA 1	51.4 (1.305)	47.5 (1.206)	21.4 (544)	12.0 (305)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 250 - 6	(1) 250 - 6	(1) 250 - 6	(5) 350 - 6	(5) 350 - 6	165.3 (75)		
200A SER NEMA 3R	51.4 (1.305)	47.5 (1.206)	21.4 (544)	14.1 (358)	9.5 (242)	10.6 (268)	38.3 (973)	3.7 (93)	5.1 (129)	1.5 (38)	1.7 (44)	10.1 (257)	5.8 (148)	4.8 (122)	(1) 250 - 6	(1) 250 - 6	(1) 250 - 6	(5) 350 - 6	(5) 350 - 6	169.8 (77)		
300A SER NEMA 1	51.4 (1.305)	47.5 (1.206)	34.4 (874)	12.0 (305)	10.0 (255)	11.8 (300)	9.1 (231)	22.8 (579)	7.2 (183)	1.8 (46)	2.3 (59)	8.7 (222)	6.5 (166)	3.3 (84)	(2) 600 MCM - 2/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(5) 600 MCM - 4 or (10) 250 MCM - 1/0	(5) 350 - 6	260.1 (118)		
300A SER NEMA 3R	51.4 (1.305)	47.5 (1.206)	34.4 (874)	14.1 (358)	10.0 (255)	11.8 (300)	9.1 (231)	22.8 (579)	7.2 (183)	1.8 (46)	2.3 (59)	8.7 (222)	6.5 (166)	3.3 (84)	(2) 600 MCM - 2/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(5) 600 MCM - 4 or (10) 250 MCM - 1/0	(5) 350 - 6	264.6 (120)		
400A SER NEMA 1	51.4 (1.305)	47.5 (1.206)	34.4 (874)	12.0 (305)	10.0 (255)	11.8 (300)	9.1 (231)	22.8 (579)	7.2 (183)	1.8 (46)	2.3 (59)	8.7 (222)	6.5 (166)	3.3 (84)	(2) 600 MCM - 2/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(5) 600 MCM - 4 or (10) 250 MCM - 1/0	(5) 350 - 6	260.1 (118)		
400A SER NEMA 3R	51.4 (1.305)	47.5 (1.206)	34.4 (874)	14.1 (358)	10.0 (255)	11.8 (300)	9.1 (231)	22.8 (579)	7.2 (183)	1.8 (46)	2.3 (59)	8.7 (222)	6.5 (166)	3.3 (84)	(2) 600 MCM - 2/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(1) 600 MCM - 4 or (2) 250 MCM - 1/0	(5) 600 MCM - 4 or (10) 250 MCM - 1/0	(5) 350 - 6	264.6 (120)		

UL 1008 Withstand and Closing Ratings

Ampere Rating	Specific Breaker (kA)**	Fuse Rating (Class J)
100	35	200 kA
150	42	200 kA
200	42	200 kA
300	65	200 kA
400	65	200 kA

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Honeywell Distributer for detailed installation drawings.

** See Specific Breaker List, available on Power Resource.

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A0000416982 | Rev B | 10/2020

