



Full Voltage, Across-the-Line

SERIES MP15

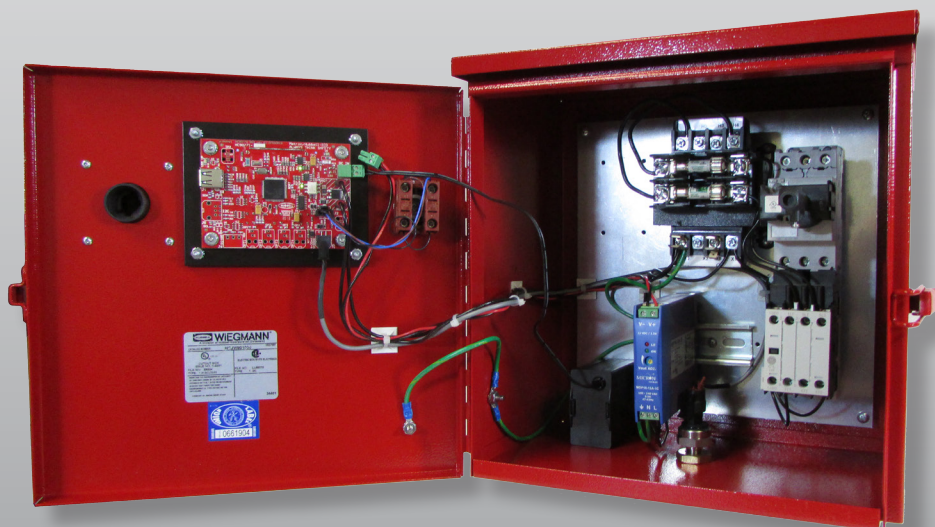
Microprocessor Jockey Pump Controller



Metron's Series MP15 Jockey Pump is small, lightweight, technologically advanced microprocessor based controller intended for across-the-line starting of squirrel cage motors. MP15 controllers are for fire protection system applications where it is desirable to maintain uniform system water pressure by the use of an automatic pressure maintenance pump.

The MP15 Jockey Pump Controller serves over-all system efficiency by detecting minor fire protection water system leakage. By bringing jockey or make-up pumps on line, they maintain pressure within set point limits without unnecessary cycling of the main fire pump.

Controllers are completely wired, assembled, and tested at the factory before shipment and ready for immediate installation.





Metron Fire Pump Controls and Accessories



Standard Features

- » Solid State contactor drive for increased reliability
- » Field updatable via USB
- » Multilingual
- » System pressure readout without opening the door
- » Combination motor protector through door disconnect provides overload and short circuit protection without fuses
- » Horsepower rated motor starter
- » HAND-OFF-AUTO selector switch
- » Minimum Run timer
- » Pump Start Delay timer
- » Power Available LED
- » Pump Running LED
- » Event history data log - capable of storing no less than 3000 events
- » Door mounted backlit LCD display/user interface with adjustable back lighting.
- » Control transformer
- » Diagnostic LED's
- » NEMA Type 3R drip proof metal freestanding enclosure

Options

- » USB enhanced data logging capability
- » Space heater with thermostat
- » Type 4 & 4X enclosures
- » Tropicalization
- » CE approved (standard on Eledyne models)
- » Four user programmable output relays

Consult factory for additional options.

Specifications

The Fire Jockey Pump Controller shall be factory assembled, wired and tested as a unit and shall conform to all requirements of the latest edition of NFPA 20 and be Third Party Listed by Underwriters Laboratories (UL) 508A standards for industrial controls. The controller shall be available for 208, 230, 380-415, or 480 volt three phases and 115, 208, 240 single phase.

Ratings

- » 120V-600V, 50/60Hz, single or 3 phase
- » Short circuit rating:
 - 5kA @ 120V (100kA if optional control transformer ordered)
 - 100kA @ 240V
 - 50kA @ 380-480V
 - 25kA @ 575-600V
- » 0-600 PSI Pressure Transducer

The internal logic of the controller shall be capable of operation in a temperature range of 4.4°C to 50°C and high, non-condensing, humidity levels.

Controllers shall be manufactured by Metron - A Division of Hubbell Industrial Controls, Inc.

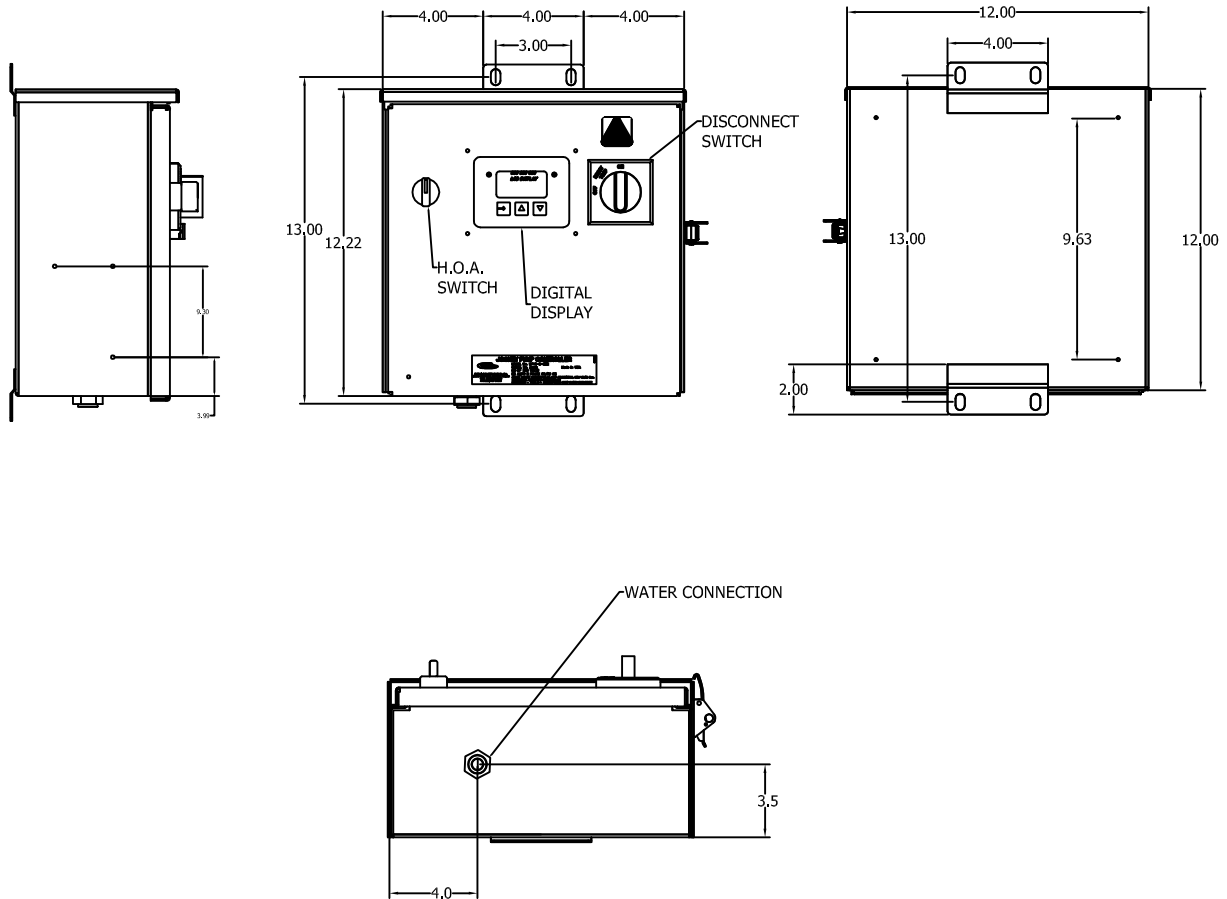
www.metroninc.com



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REVISIONS			
REV.	DATE	DESCRIPTION	BY



NOTES:

1. FIELD TERMINAL WILL ACCEPT COPPER WIRE ONLY.
2. MOTOR TERMINALS VARY WIDELY BETWEEN MANUFACTURERS. PLEASE REFER TO MOTOR CONNECTION DIAGRAM ON THE MOTOR FOR VERIFICATION.
3. PROPER PHASE SEQUENCE (A,B,C) SHOULD BE OBSERVED, TO MAINTAIN PROPER MOTOR ROTATION.
4. INCOMING CABLE SIZE TO BE 125% OF MOTOR FULL LOAD CURRENT. REFER TO WIRE SIZE TABLES IN NFPA 70.

SINGLE PHASE

HP	VAC
.25 - 1	115
.25 - 2	200
.25 - 2	240

THREE PHASE

HP	VAC
.25 - 4	200
.25 - 4	208
.25 - 5	240
.25 - 7.5	380/415
.25 - 10	460/480
.25 - 10	575/600

HCJP15D-801 SMALL STANDARD ENCLOSURE

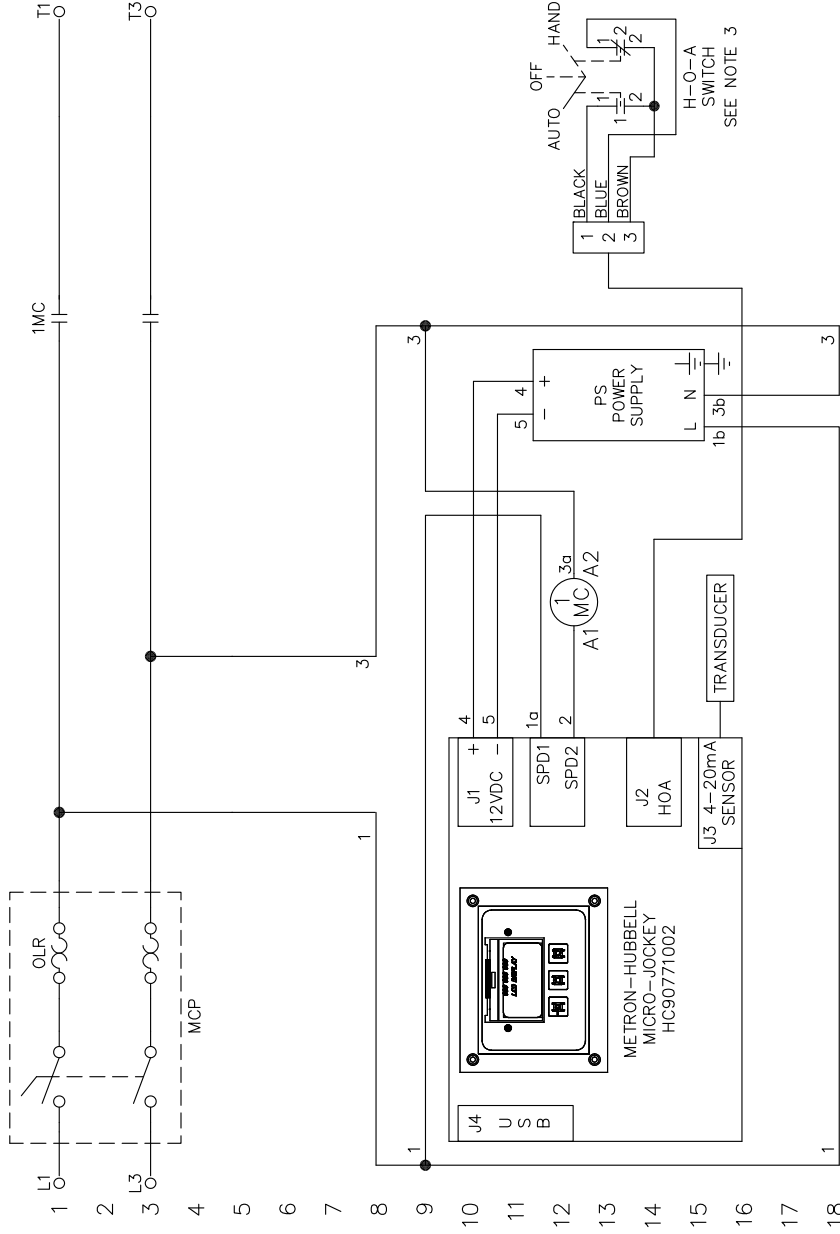
LINEAR	HOLE	ANGLES	<div>DATA & OUTLINE DRAWING</div> <div>MP15 MICRO JOCKEY</div> <div>FIRE PUMP CONTROLLER</div> <div>NEMA 3R SMALL ENCLOSURE</div>			
0.X = ±.050	PUNCH ±.002	DIMEN. ±.1"				
0.XX = ±.020	0.250 ±.002	±.1"				
0.XXX = ±.005	0.500 ±.002	±.1"				
R.M.S.			DATE: 8/2/2013			
METRON			DR. S. JUDD			
Division of - Hubbell ICD, Inc.			CK.			
4301 Cheyenne Drive Archdale, N.C. 27263			APPR.			
1 OF 1			DRG. NO.			
HCJP15D-801-INVOICE#ITEM#			1 OF 1			



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COMPONENTS	FUNCTION	LOCATION	CONTACTS
1MC	MOTOR CONTACTOR	12	1,3
1PS	PRESSURE TRANSDUCER	18	
H-O-A	HAND/OFF/AUTO SELECTOR SWITCH	12	
MCP	MOTOR CIRCUIT PROTECTOR	1,3	
PS	POWER SUPPLY	13	



NOTES:

3. FOR H-O-A SWITCH:
H-O-A SWITCH CONNECTIONS SHOWN WHEN
DOOR IS OPENED AND IN AUTO POSITION.
4. FOR FIELD WIRING:
4.a) USE COPPER WIRING ONLY EXCEPT
AT TERMINALS MARKED CU-AL,
60°C FOR TERMINALS RATED LESS
THAN 100 AMPS.

OPTIONS LIST - OPTIONS MARKED WITH AN "X" ARE INCLUDED												
C	CE	H	L	M	PR	S	U	V	X	Y	CUSTOM	



METRON
Division of Hubbell-ICD, Inc.
4301 Cheyenne Drive Archdale, N.C. 27263

DRG. NO.
1 OF 1 HCMP15S1P

DATE: 10/17/2014 DR. DAMA CK. APPR.

HOLE		ANGLES	
PUNCH	± .002	DIMEN.	± 1°
REAM	± .004	UNDIM.	90 ± 2°

CADD NO.: HCMP15S1P

R.M.S.

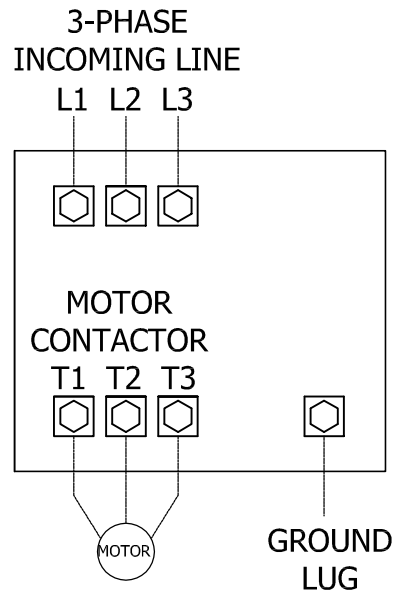
STANDARD SCHEMATIC DIAGRAM
MP15 MICRO JOCKEY PUMP CONTROLLER
SINGLE PHASE



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STANDARD MP15 JOCKEY



NOTES

1. INCOMING LINE TERMINALS ARE PROVIDED TO ACCOMMODATE 125% OF MOTOR FULL LOAD CURRENT PER NFPA-20 AND NFAP-70.
2. COPPER (CU) WIRE IS RECOMMENDED.
3. FOR FIELD CONNECTION WIRE; 16 GA AWG MINIMUM.
REFER TO NFPA-70 FOR FIELD WIRE SIZING.
- 4. PRESSURE SENSING LINE CONNECTION IS 1/2" MALE NPT.**
5. REFER TO SCHEMATIC DRAWING: HCMP15S FOR MORE INFORMATION.

LINEAR		HOLE		ANGLES		FIELD CONNECTION DIAGRAM			
0.X = ± .050		DRILL	PUNCH	± .002	DIMEN.		MP15 MICRO JOCKEY		
0.XX = ± .020			< .50	± .005	± 1'				
0.XXX = ± .005			> .50	± .008					
		REAM SPECIFIED	± .004	UNDIM.					
CADD NO. HCMP15F.idw				90° ± 2'					
R.M.S.		DATE		10/18/2013		DR.		CK.	APPR.
		METRON		Div. of Hubbell-ICD, Inc. 4301 Cheyenne Drive Archdale, N.C. 27263		DRG. NO. 1 OF 1 HCMP15F			