5.15. Digital Input High Voltage- CC-PDIH01

Function

The Digital Input High Voltage accepts 120VAC / 125VDC (CC-TDI110, 120), 120VAC (CC-TDI151 PROX) or 250VAC (CC-TDI2xx) signals as discrete inputs. The same IOM but different IOTA is used for both the 120VAC / 125VDC and 250VAC models. This reduces the number of spares required to support Series C system maintenance.

Notable Features

- Extensive internal diagnostics to ensure data integrity
- Optional redundancy (except CC-TDI151)
- Input direct/reverse
- Galvanic isolation

Detail Specifications – Digital Input High Voltage

Parameter	Specification					
Input / Output Model	CC-PDIH01 – Digital Input High Voltage					
Input Channels	32			32		
Galvanic Isolation (field to logic common)	1500 VAC RMS or ±1500 VDC			1500 VAC RMS or ±1500 VDC		
Isolation Technique	Optical			Optical		
	120 VAC IOTA			240 VAC IOTA		
IOTA Models	CC-TDI110	Non Redundant	9"	CC-TDI220	Non Redundant	9"
	CC-TDI120	Redundant	12"	CC-TDI230	Redundant	12"
	CC-TDI151	Non Redundant	12"			
IOTA Specific Specifications	**CC-TDI151**	**CC-TDI110 & CC-TDI120**		**CC-TDI220 & CC-TDI230**		
Nominal Voltage	120 VAC (PROX)	120VAC	125 VDC	240VAC		
Digital Input Pwr. Range	90-132 V AC RMS	90-132 V AC RMS	100-138 V DC	180-264 V AC RMS		
Sense Current (ON condition) minimum	7.5 mA RMS at 90V RMS 10 mA RMS at 132V RMS	1.0 mA	1.2 mA	1.11 mA RMS		
Sense Current (OFF condition) maximum	2.0 mA RMS	0.32 mA	0.32 mA	0.32 mA RMS		
Pick Up Voltage (ON condition) minimum	90 VAC RMS	90 VAC RMS	100 VDC	180 VAC RMS		
Drop Out Voltage (OFF condition) maximum	20 VAC RMS	25 VAC RMS	25 VDC	50 VAC RMS		
Absolute Delay Across Input Filter and Isolation (Bounceless Input to logic level change)	25 ms maximum	25 ms maximum	10 ms maximum	25 ms maximum		
Frequency Range	47-63 Hz	47-63 Hz	NA	47-63 Hz		