Control Terminal Designations

Control Circuit Terminals		
Terminal Symbol	**Description**	**Remarks**
+24V	DC Voltage Source	(+24V, 20mA), used only for AC drive digital inputs wired for source mode operation
DI1	Digital Input 1	Input Voltage: Internally Supplied *(see WARNING below)* Sink Mode: Low active, Vin_L Min = 0V, Vin_L Max = 15V, Iin Min = 2.1mA, Iin Max = 7.0mA Source Mode: High active, Vin_H Min = 8.5V, Vin_H Max = 24V, Iin Min = 2.1mA, Iin Max = 7.0mA Input response: 12 - 15 msec Also see "Basic Wiring Diagram" on the next pages.
DI2	Digital Input 2	
DI3	Digital Input 3	
DI4	Digital Input 4	
DI5	Digital Input 5	
DI6	Digital Input 6	
DI7	Digital Input 7	
DI8	Digital Input 8	
DI9	Digital Input 9	
DI10	Digital Input 10	
DI11	Digital Input 11	
DCM	Digital Common	
+10V	Internal Power Supply	+10VDC (10mA maximum load)
AI1	Analog Input	0 to +10 V input only
AI2	Analog Input	0 to 20 mA / 4 to 20 mA input
AI3	Analog Input	-10 to +10 V input only
ACM	Analog Common	
R1O	Relay Output 1 Normally Open	Resistive Load: 240VAC – 5A (N.O) / 3A (N.C.) 24VDC – 5A (N.O.) / 3A (N.C.) Inductive Load: 240VAC – 1.5A (N.O) / 0.5A (N.C) 24VDC – 1.5A (N.O) / 0.5A (N.C)
R1C	Relay Output 1 Normally Closed	
R1	Relay Output 1 Common	
DO1	Photocoupled digital output	12-48 VDC, 50 mA
DO2	Photocoupled digital output	
DO3	Photocoupled digital output	
DOC	Digital Output Common	
FO	Digital Frequency Output	Maximum 50mA @ 48VDC, Scalable squarewave, 50% duty cycle output
AO	Analog Output	0 to +10V, 2mA Output
Control Terminal Wire Range: 24–12 AWG ***Control Terminal Tightening Torque: 5kgf·cm [4lbf·in]***		

WARNING: Do NOT connect external voltage sources to the Digital Inputs. Permanent damage may result.

Use twisted-shielded, twisted-pair or shielded-lead wires for the control signal wiring. It is recommended to run all signal wiring in a separate steel conduit. The shield wire should only be connected at the AC drive. Do not connect shield wire on both ends.