



CONNECTION		BIPOLAR 3	PERMISSIBLE RADIAL+AXIAL FORCE																																																		
SPECIFICATION																																																					
VOLTAGE (VDC)	12 TO 48		AXIAL-FORCE Fa (N)	Fa=15																																																	
AMPS/PHASE(A)	4.2		DISTANCE a (mm)	20																																																	
HOLDING TORQUE (Nm) [lb-in]	3.54 [31.29]		RADIAL-FORCE Fr (N)	52																																																	
DETENT TORQUE (Nm) [lb-in]	0.075 [0.664]			AXIAL	RADIAL																																																
STEP ANGLE (°)±ACCURACY	1.8±5% TO MICROSTEP		SHAFT PLAY (mm)	0.2Max 0.02																																																	
WEIGHT (Kg) [lb]	1.4[3.09]		AT LOAD MAX: (N)	200 4.5																																																	
OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C 3																																																					
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F] (HIGHER TEMPERATURE REDUCES DUTY CYCLE)																																																					
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)																																																					
INSULATION CLASS B 130° [266°F]																																																					
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)																																																					
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)																																																					
			<table border="1"> <thead> <tr> <th colspan="2">X1, JST GH-4</th> <th colspan="2">X2, Phoenix MCV-10</th> </tr> <tr> <th>PIN No.</th> <th>Function 1</th> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+UB_LOGIC(24V)</td> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>CAN+</td> <td>2</td> <td>Analog input (0-10V)</td> </tr> <tr> <td>3</td> <td>CAN-</td> <td>3</td> <td>+12V (Voltage Output, max.100mA)</td> </tr> <tr> <td>4</td> <td>GND</td> <td>4</td> <td>Output1 (open drain)</td> </tr> <tr> <td colspan="2"></td> <td>5</td> <td>Output2 (open drain)</td> </tr> <tr> <td colspan="2"></td> <td>6</td> <td>Input1 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>7</td> <td>Input2 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>8</td> <td>Input3 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>9</td> <td>Input4 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>10</td> <td>GND</td> </tr> </tbody> </table>			X1, JST GH-4		X2, Phoenix MCV-10		PIN No.	Function 1	PIN No.	Function	1	+UB_LOGIC(24V)	1	GND	2	CAN+	2	Analog input (0-10V)	3	CAN-	3	+12V (Voltage Output, max.100mA)	4	GND	4	Output1 (open drain)			5	Output2 (open drain)			6	Input1 (+5/+24V)			7	Input2 (+5/+24V)			8	Input3 (+5/+24V)			9	Input4 (+5/+24V)			10	GND
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03	REWORK DRAW/CHANGE TOLERANCE	04.07.16	GYQ	Nanotec PLUG & DRIVE	APVD	G.M.	08.08.13	PLUG&DRIVE MOTOR
02	TOLERANCE OF CONNECTOR LENGTH	28.01.14	GYQ		CHKD			
01	EXCHANGE JST PIN1, PIN4	08.01.14	GYQ	Surface specification DIN ISO 1302	DRN	GYQ	08.08.13	DWG.NO PD4-C6018L4204-E-08
REV	DESCRIPTION	DATE	APVD	General tolerances DIN ISO 2768-cH		SIGNATURE	DATE	
				Work piece edge DIN ISO 13715				