



SPECIFICATION		CONNECTION	DELTA	INPUT CONNECTION		PERMISSIBLE RADIAL+AXIAL FORCE		X1																																			
NO. OF POL./PHASE	8/3							<table border="1"> <thead> <tr> <th>Pin No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>a1</td><td>GND</td></tr> <tr><td>a2</td><td>+UB (12-48V)</td></tr> <tr><td>a3</td><td>INPUT 1 (24V)</td></tr> <tr><td>a4</td><td>INPUT 2 (24V)</td></tr> <tr><td>a5</td><td>INPUT 3 (24V)</td></tr> <tr><td>a6</td><td>ANALOG INPUT (0-10V/0-20mA)</td></tr> <tr><td>a7</td><td>OUTPUT 1 (open drain)</td></tr> <tr><td>a8</td><td>OUTPUT 2 (open drain)</td></tr> <tr><td>b1</td><td>GND</td></tr> <tr><td>b2</td><td>+10V VOLTAGE SUPPLY</td></tr> <tr><td>b3</td><td>-INPUT 4/-ENABLE (5V/24V)</td></tr> <tr><td>b4</td><td>INPUT 4/ENABLE (5V/24V)</td></tr> <tr><td>b5</td><td>-INPUT 5/-DIRECTION (5V/24V)</td></tr> <tr><td>b6</td><td>INPUT 5/DIRECTION (5V/24V)</td></tr> <tr><td>b7</td><td>-INPUT 6/-CLOCK (5V/24V)</td></tr> <tr><td>b8</td><td>INPUT 6/CLOCK (5V/24V)</td></tr> </tbody> </table>		Pin No.	Function	a1	GND	a2	+UB (12-48V)	a3	INPUT 1 (24V)	a4	INPUT 2 (24V)	a5	INPUT 3 (24V)	a6	ANALOG INPUT (0-10V/0-20mA)	a7	OUTPUT 1 (open drain)	a8	OUTPUT 2 (open drain)	b1	GND	b2	+10V VOLTAGE SUPPLY	b3	-INPUT 4/-ENABLE (5V/24V)	b4	INPUT 4/ENABLE (5V/24V)	b5	-INPUT 5/-DIRECTION (5V/24V)	b6	INPUT 5/DIRECTION (5V/24V)	b7	-INPUT 6/-CLOCK (5V/24V)	b8	INPUT 6/CLOCK (5V/24V)
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VOLTAGE RATED (VDC)	48					<table border="1"> <thead> <tr> <th>AXIAL-FORCE F_a (N)</th> <th>$F_a=10$</th> </tr> </thead> <tbody> <tr> <td>DISTANCE a (mm)</td> <td>20</td> </tr> <tr> <th>RADIAL-FORCE F_r (N)</th> <th>28</th> </tr> <tr> <td></td> <td>AXIAL</td> <td>RADIAL</td> </tr> <tr> <td>SHAFT PLAY (mm)</td> <td>0.1</td> <td>0.02</td> </tr> <tr> <td>AT LOAD MAX: (N)</td> <td>30</td> <td>4.5</td> </tr> </tbody> </table>		AXIAL-FORCE F_a (N)	$F_a=10$	DISTANCE a (mm)	20	RADIAL-FORCE F_r (N)	28		AXIAL	RADIAL	SHAFT PLAY (mm)	0.1	0.02	AT LOAD MAX: (N)	30	4.5																					
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CURRENT RATED/PEAK (AMP)	3.3/10																																										
TORQUE RATED/PEAK (Nm)	0.25/0.75																																										
POWER RATED (W)	105																																										
SPEED RATED/NO LOAD (RPM)	4000/6500																																										
ROTOR INERTIA (Kg-m ²)	9.6×10^{-6}																																										
WEIGHT (Kg)	0.85																																										
OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C																																											
AMBIENT TEMPERATURE -10~50°C [14°F ~ 122°F]																																											
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)																																											
				 Nanotec [®] PLUG & DRIVE		APVD <i>X.W.</i> 01.07.15 CHKD DRN <i>A.S.</i> 01.07.15		PLUG&DRIVE MOTOR DWG.NO PD2-CB42C048040-E-01																																			
B	-	14.01.16	A.S.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	SIGNATURE		DATE																																		
A	-	18.11.15	A.S.				DATE																																				
REV	DESCRIPTION	DATE	DRN																																								