

Motor Parameters	
Rated voltage U_N (VDC)	24
No-load speed V_k (RPM)	2050±8%
No-load current I_{NL} (A)	<0.5
Rated torque T_{RM} (N.m)	0.13
Current I_{RM} (A)	<1.8
Speed V_{RM} (RPM)	1900±8%
Intermittent torque T_I (N.m)	0.2
Current I_{IM} (A)	<2.5
Speed V_{IM} (RPM)	1800±8%
Maximum torque T_{SM} (N.m)	0.3
Current I_{SM} (A)	<3.5
Speed V_{SM} (RPM)	1700±8%
Efficiency η_M (%)	>70

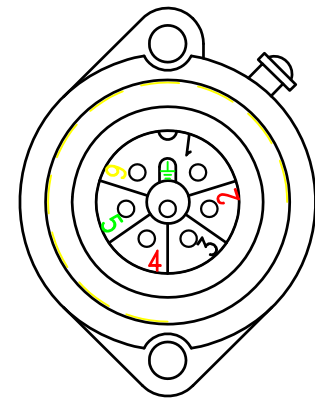
Planetary Reducer Parameters	
Ratio	236: 1
Stage	3
Rated output torque T_{RR} (N.m)	25
Intermittent output torque T_{IR} (N.m)	40
Maximum output torque T_{SR} (N.m)	60
Maximum radial force F_{RMAX} (N)	340
Maximum axial force F_{aMAX} (N)	450
Backlash (arcmin)	16
Efficiency η_R (%)	>80

Hall Parameters	
No. of Hall	2
Hall model	A3282
Hall signal	Open Collector

Other Parameters	
Average life-span (h)	2000h
Noise (dB)	≤65
Rated efficiency η (%)	≥50
Environmental temperature T_A (°C)	-40 - 80
IP	55

MAGNETIC PULSE GENERATOR DATA		
Output type	-	voltage output
Pull-up resistor	-	yes
Output signal	-	2 square wave signals
phase quadrature	-	90°
Impulses per revolution	ppr	2,channels A and B
Operating voltage	VDC	UN=12 (5 ... 24)
Operating current	mA	max. 12 (U=12V)
Deviation of pulse width	-	max. 15°
Deviation of phase shift	-	max. 15°
Output voltage(low level)	VDC	max. 0.4 (20mA)
SIGNAL RISE TIME	ns	85
SIGNAL DECAY TIME	ns	60
Operating temperature	°C	-40 ... +85

Male receptacle



face view of male receptacle

Electric Connection:
 Pin 1: Motor, 0V (MOTOR INPUT), (Black thick wire inside)
 Pin 2: Motor, +24V (MOTOR INPUT), (Red thick wire inside)
 Pin 3: Hall, 0V (HALL INPUT), (Black thin wire inside)
 Pin 4: Hall, +12V(5-24) (HALL INPUT), (Red thin wire inside)
 Pin 5: Hall, Signal A (HALL OUTPUT,square wave signal)(Green thin wire inside)
 Pin 6: Hall, Signal B (HALL OUTPUT,square wave signal)(Yellow thin wire inside)
 Pin 7: GROUND (G)

! ATTENTION
 Do not exchange the connection for Pin3 and Pin4!
 If you do so, Hall will be destroyed!

Rotate Direction:
 Pin 1 connect to Power (-), Pin 2 connect to Power (+), view from motor output shaft, Motor rotate on CCW direction.

DESIGNED BY	CYH 2010.12.21
CHECKED BY	K J 2010.12.21
APPROVED BY	WCH 2010.12.21

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WEIGHT SCALE
 1:1.5

SYMBOLE ISO	SIZE A3	SHEET	THE TOLERANCE NOT MENTIONED IS REFERRED TO ISO 2768-vL.
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Brushed DC Motor with Hall
 24H-1800-236-25-K-V-40 REV