

# SD SERIES

## STEPPING MOTORS

34 frame size

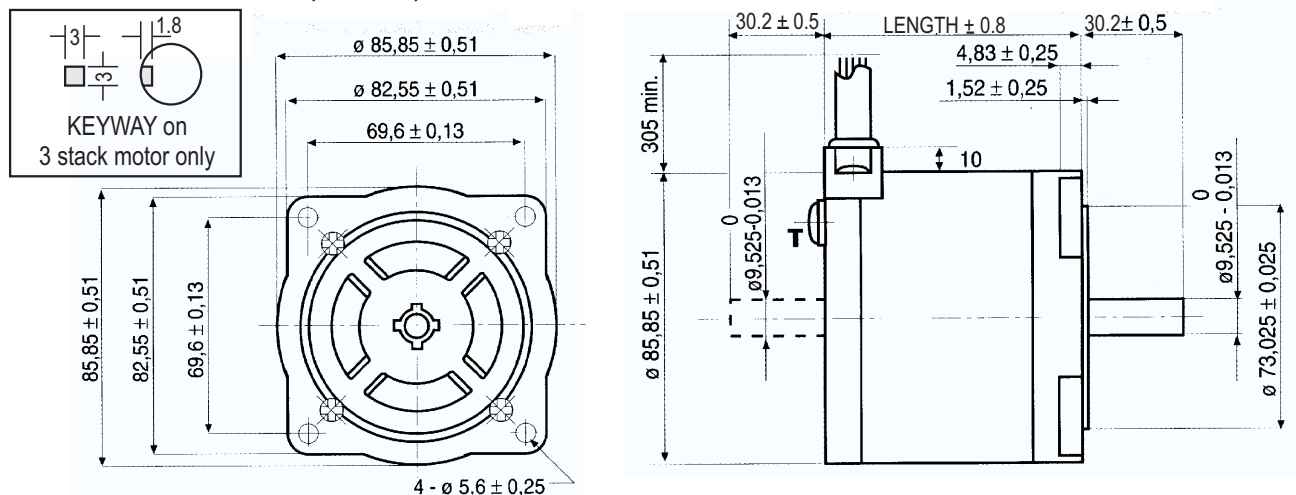
- 8 leads for series or parallel connection
- Ideal for medium motion control systems
- Manufactured for R.T.A. drives
- 2 phase hybrid motors
- 200 step/rev (1.8°/step)
- 86mm (3.4") flange



### SPECIFICATIONS

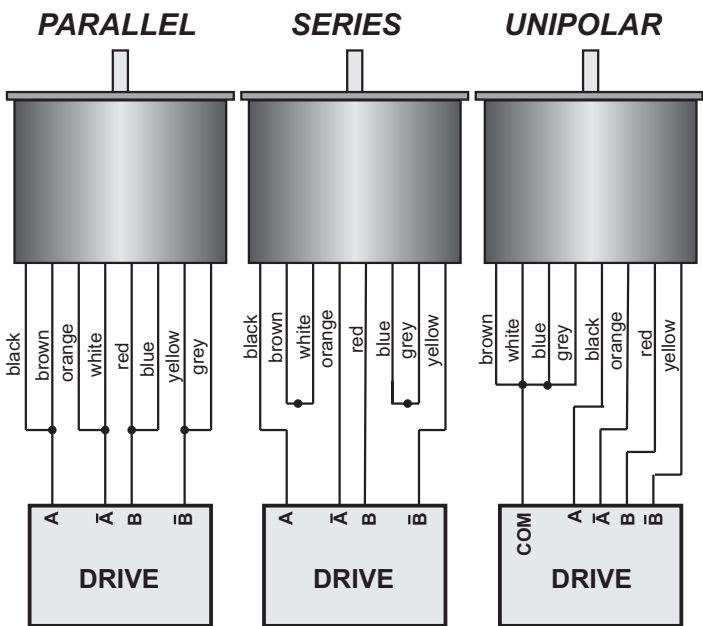
MODEL NUMBER	No. Shafts	No. Stacks	Motor Length (mm)	Phase Current (Amp)	Phase Resistance (Ω)	Phase Inductance (mH)	Holding Torque (Nm)	Rotor Inertia (kg.mm <sup>2</sup> )	Voltage Constant (V/krpm)	Motor Mass (kg)	
103-807-6341	1	1	61	<i>No Longer Manufactured!</i> <i>Suggest H series 103-H8221-6341 or 103-H8221-6211</i>							
103-807-6311	2										
103-814-6541	1	2	91	6.5	0.55	2.7	3.5	112	44	2.5	
103-814-6511	2										
103-845-6741	1	3	130	9.5	0.45	2.0	5.1	155	46	3.6	
103-845-6711	2										

### DIMENSIONS (in mm)

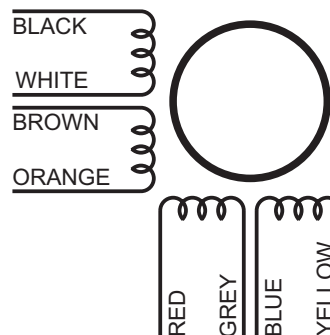


SD34FT

## DRIVE CONNECTIONS



## MOTOR CABLES



## NOTES

### MOTOR CURRENT

All motor currents are for parallel connection with a bipolar drive. If connecting in parallel mode, set the drive to no more than this value. If connecting in series mode, set drive current to half this value to prevent overheating the motor.

### HOLDING TORQUE

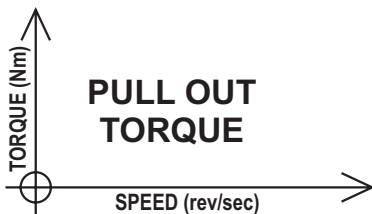
Holding torque is measured for both phases on, motor connected in parallel and drive set to rated motor current.

### PROTECTION

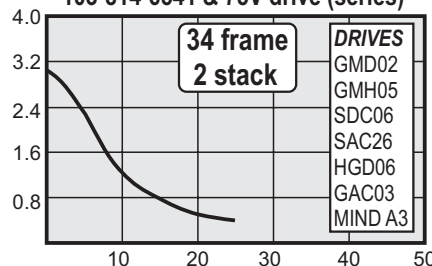
Environmental protection IP43

## TORQUE CURVES

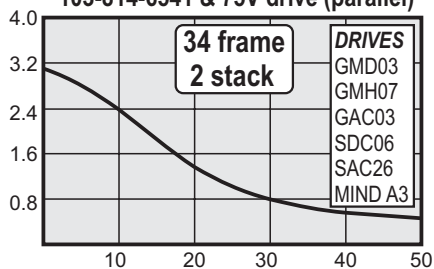
Drives set to half step mode (400 step/rev).



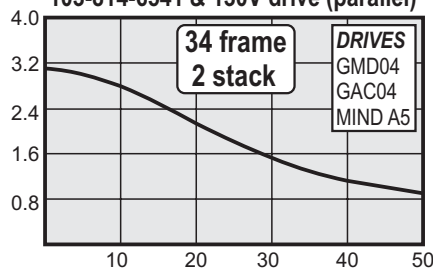
103-814-6541 & 75V drive (series)



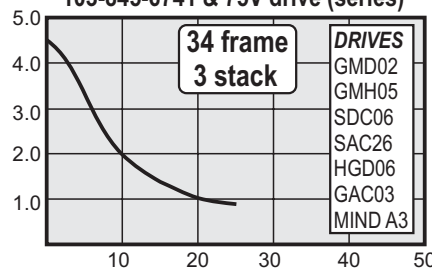
103-814-6541 & 75V drive (parallel)



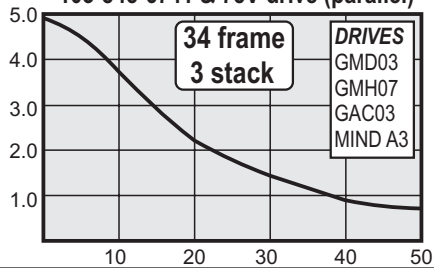
103-814-6541 & 130V drive (parallel)



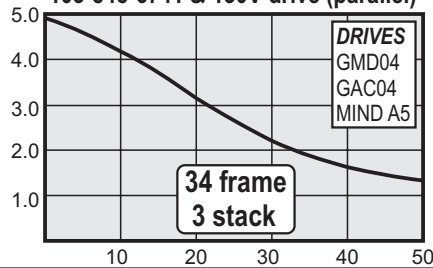
103-845-6741 & 75V drive (series)



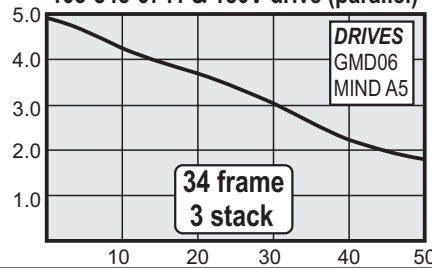
103-845-6741 & 75V drive (parallel)



103-845-6741 & 130V drive (parallel)



103-845-6741 & 180V drive (parallel)



# AUTOMATED MOTION SYSTEMS PTY.LTD.

**MAILING ADDRESS:**  
P.O.BOX 1240  
WANGARA DC  
W.A. 6947

PHONE: (08) 9309 1896  
FAX: (08) 9309 5671  
EMAIL: sales@automotsys.com.au  
INTERNET: <http://www.automotsys.com.au>

**OFFICE ADDRESS:**  
UNIT2, 7 BARETTA RD.  
WANGARA, PERTH  
WESTERN AUSTRALIA