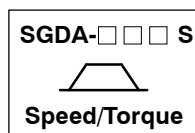


### 3.8.8 Connector Terminal Layouts

This section describes connector terminal layouts for Servopacks, Servomotors and Digital Operators.



#### 1) Servopack Connectors for Speed/Torque Control

##### 1CN Terminal Layout

2	SG	Torque reference input 0 V	1	T-REF	Torque reference input	20	PAO	PG output phase A	19	SG	PG output signal 0V
4	SG	Speed reference input 0 V	3	V-REF	Speed reference input	22	PBO	PG output phase B	21	*PAO	PG output phase A
6	0SEN	SEN signal input (for absolute encoder only)	5	SEN	SEN signal input (for absolute encoder only)	24	PCO	PG output phase C	23	*PBO	PG output phase B
8	V-CMP	Speed coincidence output	7	BR	Brake interlock signal output	26	PSO	PG output phase S (for absolute encoder only)	25	*PCO	PG output phase C
10	SG-COM	BR/V-CMP/TGON common 0 V	9	TGON	TGON signal output	28	BAT	Battery (+) (for absolute encoder only)	27	*PSO	PG output phase S (for absolute encoder only)
12	N-CL	Reverse external torque limit ON input	11	P-CL	Forward external torque limit ON input	30	ALO1	Alarm code output (open collector output)	29	BAT0	Battery (-) (for absolute encoder only)
14	S-ON	Servo ON input	13	+24 V IN	External power supply input	32	ALO3		31	ALO2	Alarm code output (open collector output)
16	P-OT	Forward rotation prohibited	15	P-CON	P control input	34	ALM	Servo alarm output	33	SG-AL	Alarm code output common 0 V
18	ALMRST	Alarm reset input	17	N-OT	Reverse rotation prohibited	36	FG	Frame ground	35	ALM-SG	Servo alarm output

- **Servopack Side** Connector type: 10236-52A2JL (manufactured by 3M)
- **Cable Side** Connector type: 10136-3000VE (manufactured by 3M)  
Connector case type: 10336-52A0-008 (manufactured by 3M)

##### 2CN Terminal Layout

2	PG0V	PG power supply 0 V	1	PG0V	PG power supply 0 V	12	BAT +	Battery (+) (for absolute encoder only)	11		
4	PG5V	PG power supply +5 V	3	PG0V		14	PC	PG input phase C	13	BAT -	Battery (-) (for absolute encoder only)
6	PG5V		5	PG5V	PG power supply +5 V	16	PA	PG input phase A	15	*PC	PG input phase C
8	PS	PG input phase S (for absolute encoder only)	7	DIR	Rotation direction input	18	PB	PG input phase B	17	*PA	PG input phase A
10			9	*PS	PG input phase S (for absolute encoder only)	20	FG	Frame ground	19	*PB	PG input phase B

- **Servopack Side** Connector type: 10220-52A2JL (manufactured by 3M)
- **Cable Side** Connector type: 10120-3000VE (manufactured by 3M)  
Connector case type: 10320-52A0-008 (manufactured by 3M)