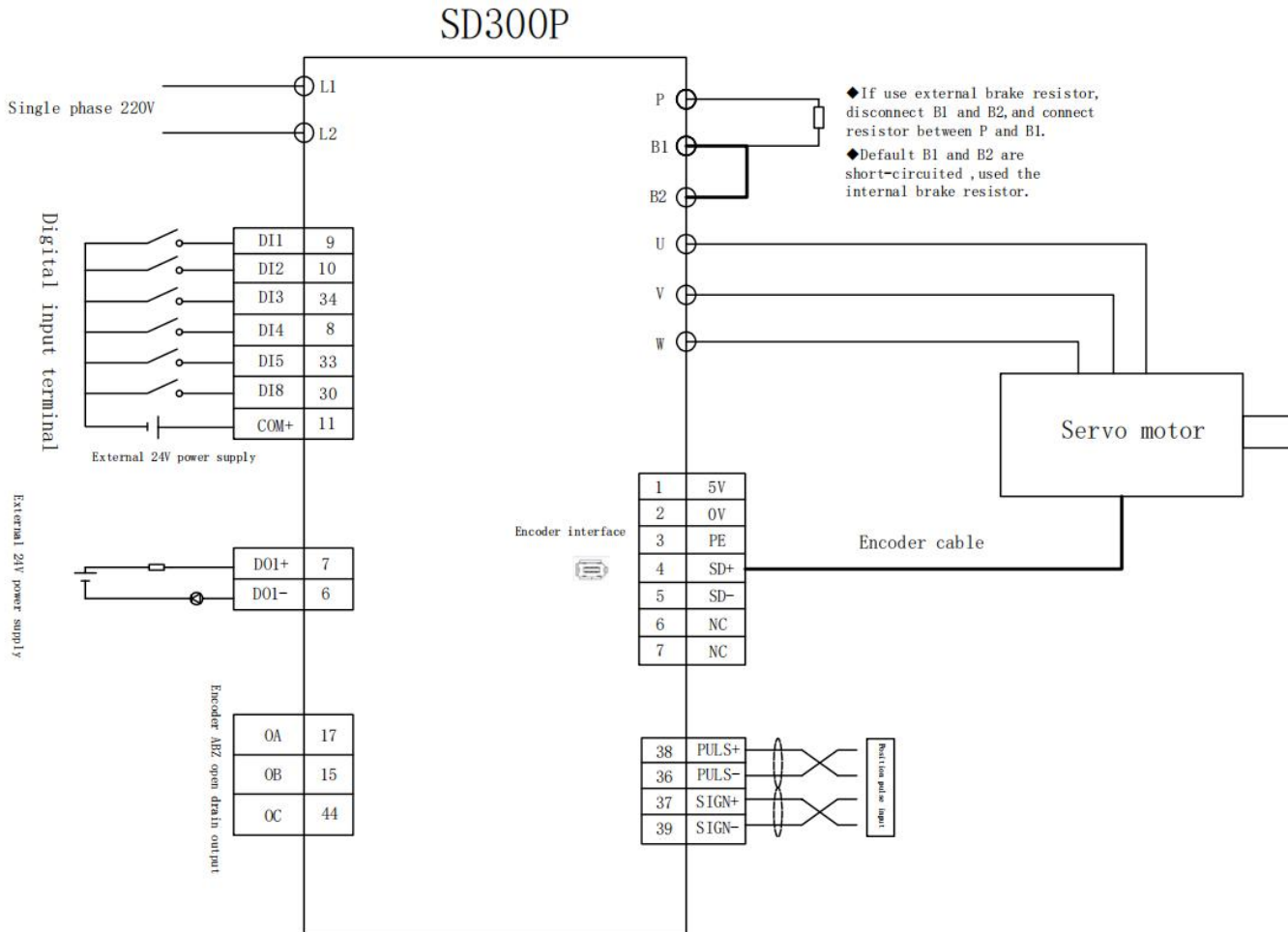


SD300P control modes wiring and setting

1. Position control mode:

1.1 wiring diagram



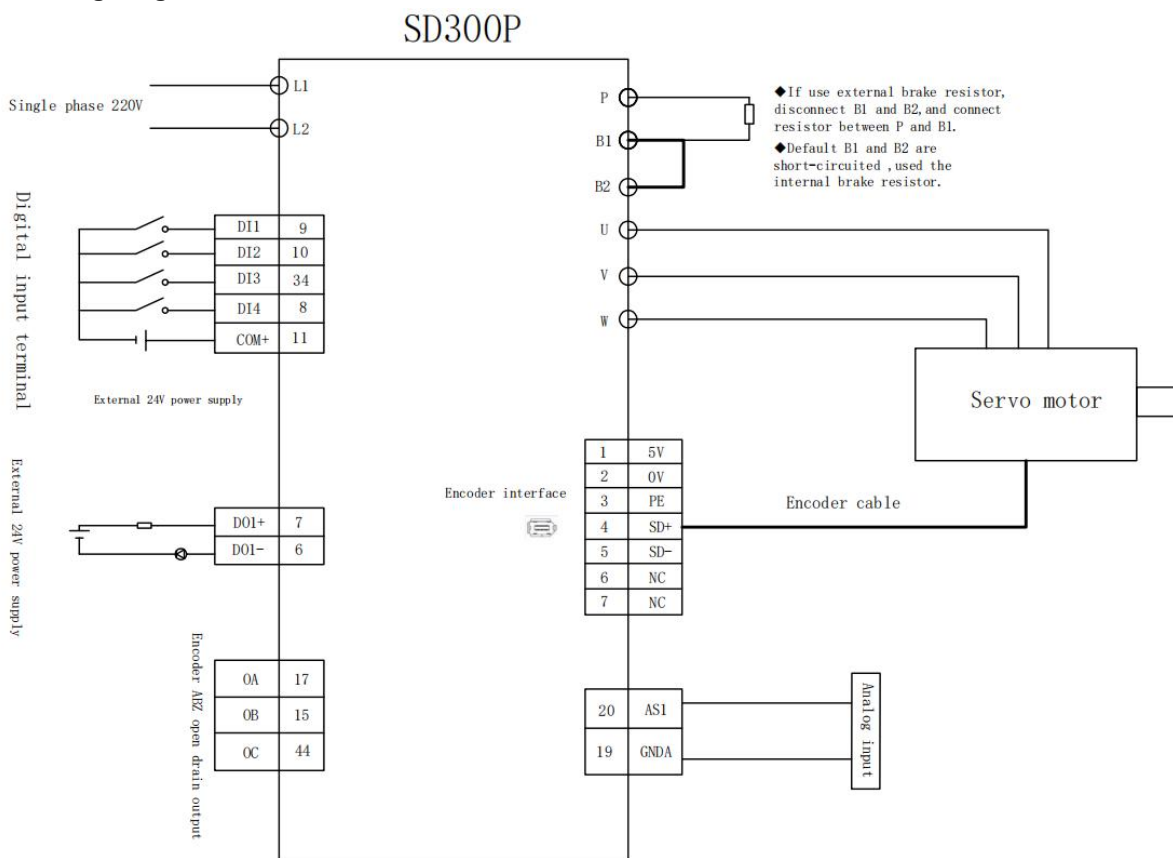
1.2 Main parameter settings

SD300P position control function parameter setting					
parameters	function	setting range	Defaults	unit	Set value
F00.56	Motor rotation direction	0~1	0	-	0
F02.00	Control mode selection	0-5	0	-	0
F03.00	DI1 terminal function selection	"-59~59"	0	-	1
F03.01	DI2 terminal function selection	"-59~59"	0	-	2
F03.02	DI3 terminal function selection	"-59~59"	0	-	14
F03.03	DI4 terminal function selection	"-59~59"	0	-	15
F03.04	DI5 terminal function selection	"-59~59"	0	-	35
F03.07	DI8 terminal function selection	"-59~59"	0	-	31
F04.00	DO1 terminal function selection	"-41~41"	0	-	11
F05.01	Pulse command input	0-1	0	-	0

	terminal selection				
F05.02	Number of position commands per motor revolution	1~1048576	10000	P/r	10000
F05.07	Electronic gear ratio 1 molecule	1~1073741824	1	-	1
F05.09	Electronic gear ratio 1 denominator	1~1073741824	1	-	1
F05.15	Command pulse input method	0-2	0	-	0
F09.01	Rigidity level selection	0-22	0	-	Adjust as needed
F09.12	1st resonant notch filter frequency	50-5000	5000	-	
F09.13	Quality factor of the 1st resonant notch filter	1-100	7	-	
F09.14	1st resonant notch filter depth	0-60	0	-	

2. Speed control mode :

2.1 wiring diagram



2.2 Main parameter settings

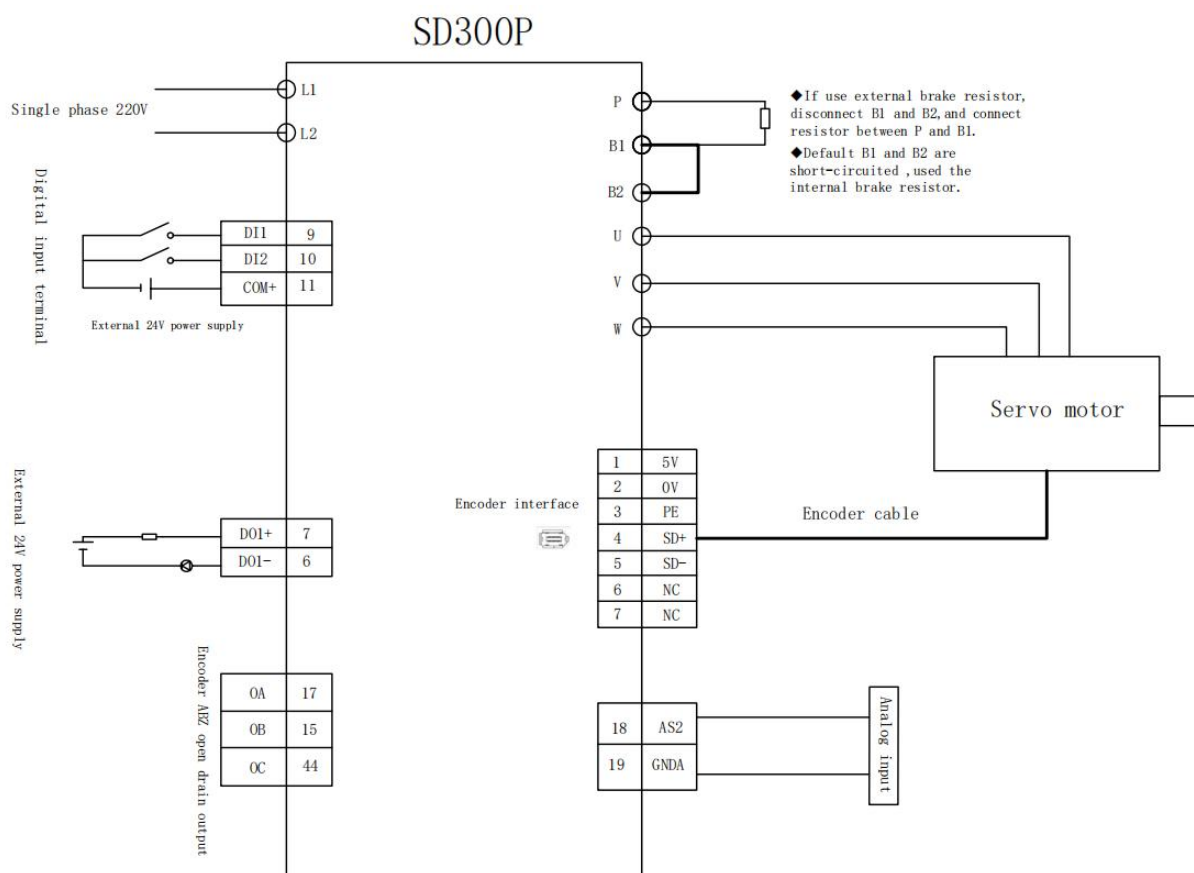
SD300P speed control function parameter setting					
parameters	function	setting range	Defaults	unit	Set value
F00.56	Motor rotation direction	0~1	0	-	0
F02.00	Control mode selection	0-5	0	-	1
F02.41	Speed/torque corresponding analog channel selection	0~1	0		0
F03.00	DI1 terminal function selection	"-59~59"	0	-	1
F03.01	DI2 terminal function selection	"-59~59"	0	-	2



F03.02	DI3 terminal function selection	"-59~59"	0	-	18
F03.03	DI4 terminal function selection	"-59~59"	0	-	19
F04.00	DO1 terminal function selection	"-41~41"	0	-	11
F06.04	Jog speed setting value	0~7500	100	rpm	100
F06.05	Speed command ramp acceleration time	0~30000	0	ms	Adjust as needed
F06.06	Speed command ramp deceleration time	0~30000	0	ms	
F06.07	Maximum speed limit	0~7500	5000	rpm	5000
F06.59	Speed command source	0~5	0	-	0
F06.60	Analog speed command direction	0~1	0	-	0
F06.61	Analog speed command polarity	0~2	0	-	0
F09.01	Rigidity level selection	0-22	0	-	Adjust as needed
F09.12	1st resonant notch filter frequency	50-5000	5000	-	
F09.13	Quality factor of the 1st resonant notch filter	1-100	7	-	
F09.14	1st resonant notch filter depth	0-60	0	-	

3. Torque control mode :

3.1 wiring diagram



3.2 Main parameter settings

SD300P torque control function parameter setting					
parameters	function	setting range	Defaults	unit	Set value
F00.56	Motor rotation direction	0~1	0	-	0
F02.00	Control mode selection	0-5	0	-	2



F02.41	Speed/torque corresponding analog channel selection	0~1	0		0
F03.00	DI1 terminal function selection	"-59~59"	0	-	1
F03.01	DI2 terminal function selection	"-59~59"	0	-	2
F04.00	DO1 terminal function selection	"-41~41"	0	-	11
F07.17	Speed limit source selection	0~2	0	-	0
F07.59	Torque command source	0~2	0	-	0
F07.60	Analog torque command direction	0~1	0	-	0
F07.61	Analog torque command polarity	0~2	0	-	0
F07.62	Speed limit during torque control	0~5000	3000	rpm	3000
F09.01	Rigidity level selection	0-22	0	-	Adjust as needed
F09.12	1st resonant notch filter frequency	50-5000	5000	-	
F09.13	Quality factor of the 1st resonant notch filter	1-100	7	-	
F09.14	1st resonant notch filter depth	0-60	0	-	