

● Parameter Setting

▪ For details on the data type in the table, refer to "Display data and transmission data" on page 76.

Parameter No.	Register No.	Function name	Displayed Data	Unit	Internal Data	Data type
P01	DT1	1ST acceleration time	0 · 0.1~999	sec	0-9990	2
P02	DT2	1ST deceleration time	0 · 0.1~999	sec	0-9990	2
P03	DT3	V/F pattern	50 · 60 · FF	-	0 · 1 · 2	4
P04	DT4	V/F curve	0 · 1	-	0 · 1	1
P05	DT5	Torque boost level	0~40	%	0-40	1
P06	DT6	Electronic thermal function select	0 · 1 · 2 · 3	-	0-3	1
P07	DT7	Setting of thermal current	0.1~100	A	1-1000	2
P08	DT8	Operation command select	0~3	-	0-3	1
P09	DT9	Frequency setting signal	0~6	-	0-6	1
P10	DT10	Stop mode	0 · 1	-	0 · 1	1
P11	DT11	Stop frequency	0.5~60	Hz	50-6000	3
P12	DT12	DC brake time	0 · 0.1~120	sec	0-1200	2
P13	DT13	DC brake level	0~100	-	0-20	5
P14	DT14	Max. output frequency	50~250	Hz	5000-25000	3
P15	DT15	Base frequency	45~250	Hz	4500-25000	3
P16	DT16	Overcurrent stall prevention function	0 · 1	-	0 · 1	1
P17	DT17	Overvoltage stall prevention function	0 · 1	-	0 · 1	1
P18	DT18	Skip frequency 1	0 · 0.5~250	Hz	0-25000	3
P19	DT19	Skip frequency 2	0 · 0.5~250	Hz	0-25000	3
P20	DT20	Skip frequency 3	0 · 0.5~250	Hz	0-25000	3
P21	DT21	Skip frequency band width	0~10	Hz	0-10	1
P22	DT22	Current limit function	0 · 0.1~9.9	sec	0-99	2
P23	DT23	Start mode	0 · 1 · 2 · 3	-	0 · 1 · 2 · 3	1
P24	DT24	Ride-through restart	0 · 1 · 2	-	0 · 1 · 2	1
P25	DT25	Wait time	0.1~100	sec	1-1000	2
P26	DT26	Retry function select	0 · 1 · 2 · 3	-	0 · 1 · 2 · 3	1
P27	DT27	Retry times	1~10	次	1-10	1
P28	DT28	Lower frequency clamp	0.5~250	Hz	50-25000	3
P29	DT29	Upper frequency clamp	0.5~250	Hz	50-25000	3
P30	DT30	Monitor select	0 · 1	-	0 · 1	1
P31	DT31	Line speed multiplier	0.1~100	-	1-1000	2
P32	DT32	Max. output voltage	0 · 1~500	V	0-500	1
P33	DT33	OCS level	1~200	%	1-200	1
P34	DT34	Carrier frequency	0.8~15.0	kHz	0-8	6

Parameter No.	Register No.	Function name	Displayed Data	Unit	Internal Data	Data type
P35	DT35	Communication station No. setting	1~31	-	1-31	1
P36	DT36	Communication speed	48 · 96 · 192	-	4-6	7
P37	DT37	Stop bit	1 · 2	bit	1 · 2	1
P38	DT38	Parity check	0 · 1 · 2	-	0 · 1 · 2	1
P39	DT39	Timeover detect	0 · 0.1~60.0	sec	0-600	2
P40	DT40	Send wait time	1~999	ms	1-999	1
P41	DT41	Password	0 · 1~999	-	0-999	1
P42	DT42	Setting data clear	0 · 1 · 2		0 · 1 · 2	1
P43	DT43	Input signal logic setting	0~31		0-31	1
P44	DT44	Safety sensor response time	0 · 1~999	ms	0-999	1
P45	DT45	Arrival signal response time	1~999	ms	1-999	1
P46	DT46	Encoder fault detect time	0 · 0.1~2.0	sec	0-20	2
P47	DT47	Arrival SW fault detect time	0 · 0.1~10	sec	0-100	2
P48	DT48	RY1 function select	0-7 r0-r7	-	0-7 8-15	1
P49	DT49	RY2 function select				
P50	DT50	RY3 function select				
P51	DT51	No. of motor poles	2 · 4 · 6	Pole	2 · 4 · 6	8
P52	DT52	Cables No. of encoder	50~999	p/r	50~999	1
P53	DT53	-	-	-	-	1
P54	DT54	-	-	-	-	1
P55	DT55	-	-	-	-	1
P56	DT56	-	-	-	-	1
P57	DT57	-	-	-	-	1
P58	DT58	-	-	-	-	1
P59	DT59	Overload detect frequency 1	0.5~250	Hz	50-25000	3
P60	DT60	Overload detect frequency 2	0.5~250	Hz	50-25000	3
P61	DT61	Overload detect current 1	0.1~100	A	10-10000	3
P62	DT62	Overload detect current 2	0.1~100	A	10-10000	3
P63	DT63	Overload detect judgment time	0 · 1~999	ms	0-999	1
P64	DT64	Overload judgment frequency ratio L	0~100	%	0-10000	3
P65	DT65	Overload judgment frequency ratio H	0~100	%	0-10000	3
P66	DT66	Overload judgment high and low changeover frequency	0.5~250	Hz	50-25000	3
P67	DT67	Overload detect judgment time	0 · 1~999	ms	0-999	1
P68	DT68	Start confirmation time	100~999	ms	100~999	1

Note1) For the communication parameters P35 to 40, always turn off the power supply after the data has been set. The set value will be effective after the power supply is turned on again.

Parameter No.	Register No.	Function name	Displayed Data	Unit	Internal Data	Data type
P69	DT69	Forced OPEN operation judgment time	0·0.1~500	sec	0-5000	2
P70	DT70	Fault detect OPEN operation forced operation time	0·0.1~500	sec	0-5000	2
P71	DT71	Fault OPEN operation OPEN arrival hold time	0.0~10	sec	0-100	2
P72	DT72	Repeat OPEN arrival hold time	0.0~10	sec	0-100	2
P73	DT73	Repeat CLOSE arrival hold time	0.0~10	sec	0-100	2
P74	DT74	S-shaped accel./decel. function	0·1·2	-	0·1·2	1
P75	DT75	Stop select in OPEN/ CLOSE operation	0·1	-	0·1	1
P76	DT76	No arrival signal select	0·1·2	-	0·1·2	1
P77	DT77	Slip arrival judgment frequency	0.1~10	Hz	1-100	2
P78	DT78	Slip arrival judgment time	1~999	ms	1-999	1
P79	DT79	Slip OPEN arrival substitute select	0·0.1~10	sec	0-100	2

Parameter No.	Register No.	Function name	Displayed Data	Unit	Internal Data	Data type
d00	DT256	D region password input	0·1~999	-	0-999	1
d01	DT257	Setting value of door width	1~65535	-	1-65535	1
d02	DT258	CLOSE Arrival position	0~100	%	0-10000	3
d03	DT259	OPEN Speed change position 1	0~100	%	0-10000	3
d04	DT260	OPEN Speed change position 2	0~100	%	0-10000	3
d05	DT261	OPEN Speed change position 3	0~100	%	0-10000	3
d06	DT262	OPEN Speed change position 4	0~100	%	0-10000	3
d07	DT263	OPEN Speed change position 5	0~100	%	0-10000	3
d08	DT264	OPEN Arrival position	0~100	%	0-10000	3
d09	DT265	CLOSE Speed change position 1	0~100	%	0-10000	3
d10	DT266	CLOSE Speed change position 2	0~100	%	0-10000	3
d11	DT267	CLOSE Speed change position 3	0~100	%	0-10000	3
d12	DT268	CLOSE Speed change position 4	0~100	%	0-10000	3
d13	DT269	CLOSE Speed change position 5	0~100	%	0-10000	3
d14	DT270	CLOSE Arrival hold frequency	0·0.5~250	Hz	0-25000	3
d15	DT271	OPEN Frequency 1	0·0.5~250	Hz	0-25000	3
d16	DT272	OPEN Frequency 2	0·0.5~250	Hz	0-25000	3
d17	DT273	OPEN Frequency 3	0·0.5~250	Hz	0-25000	3
d18	DT274	OPEN Frequency 4	0·0.5~250	Hz	0-25000	3
d19	DT275	OPEN Frequency 5	0·0.5~250	Hz	0-25000	3
d20	DT276	OPEN Frequency 6	0·0.5~250	Hz	0-25000	3

Parameter No.	Register No.	Function nam	Displayed Data	Unit	Internal Data	Data type
d21	DT277	OPEN Arrival hold frequency	0 · 0.5~250	Hz	0-25000	3
d22	DT278	CLOSE Frequency 1	0 · 0.5~250	Hz	0-25000	3
d23	DT279	CLOSE Frequency 2	0 · 0.5~250	Hz	0-25000	3
d24	DT280	CLOSE Frequency 3	0 · 0.5~250	Hz	0-25000	3
d25	DT281	CLOSE Frequency 4	0 · 0.5~250	Hz	0-25000	3
d26	DT282	CLOSE Frequency 5	0 · 0.5~250	Hz	0-25000	3
d27	DT283	CLOSE Frequency 6	0 · 0.5~250	Hz	0-25000	3
d28	DT284	OPEN Accel./decel. time 1	0 · 0.1~999	sec	0-9990	2
d29	DT285	OPEN Accel./decel. time 2	0 · 0.1~999	sec	0-9990	2
d30	DT286	OPEN Accel./decel. time 3	0 · 0.1~999	sec	0-9990	2
d31	DT287	OPEN Accel./decel. time 4	0 · 0.1~999	sec	0-9990	2
d32	DT288	OPEN Accel./decel. time 5	0 · 0.1~999	sec	0-9990	2
d33	DT289	OPEN Accel./decel. time 6	0 · 0.1~999	sec	0-9990	2
d34	DT290	CLOSE Accel./decel. time 1	0 · 0.1~999	sec	0-9990	2
d35	DT291	CLOSE Accel./decel. time 2	0 · 0.1~999	sec	0-9990	2
d36	DT292	CLOSE Accel./decel. time 3	0 · 0.1~999	sec	0-9990	2
d37	DT293	CLOSE Accel./decel. time 4	0 · 0.1~999	sec	0-9990	2
d38	DT294	CLOSE Accel./decel. time 5	0 · 0.1~999	sec	0-9990	2
d39	DT295	CLOSE Accel./decel. time 6	0 · 0.1~999	sec	0-9990	2
d40	DT296	OPEN Hold current	0.0~100	A	0-1000	2
d41	DT297	CLOSE Hold current	0.0~100	A	0-1000	2
d42	DT298	STOP time of OPEN/ CLOSE hold operation	0 · 0.1~999	sec	0-9990	2
d43	DT299	OPEN arrival hold wait frequency	0.5~250	Hz	50-2500	3
d44	DT300	CLOSE arrival hold wait frequency	0.5~250	Hz	50-2500	3
d45	DT301	OPEN arrival hold wait time	0.0~10	sec	0-100	2
d46	DT302	CLOSE arrival hold wait time	0.0~10	sec	0-100	2
d47	DT303	OPEN start timer (SW mode)	0.0~3.0	sec	0-300	3
d48	DT304	OPEN deceleration timer (SW mode)	0.0~3.0	sec	0-300	3
d49	DT305	CLOSE start timer (SW mode)	0.0~3.0	sec	0-300	3
d50	DT306	CLOSE deceleration timer (SW mode)	0.0~3.0	sec	0-300	3
d51	DT307	Operation frequency when power supply is turned ON	0 · 0.5~250	Hz	0-25000	3
d52	DT308	Door width measurement frequency	0.5~250	Hz	50-2500	3
d53	DT309	Password setting in D region	0 · 1~999	-	0-999	1

## Details and Remedies for Fault Trips

- Fault trip memory..... The cause of the trip can be saved in parameter n12 to n15. The details on the latest trip and the three prior trips are saved even if the power is turned OFF. ( The details of the shipment inspection are saved when the unit is shipped.)

Display	Details and cause of fault	Remedies
SC1	<ul style="list-style-type: none"> <li>▪ Instantaneous overcurrent during acceleration or abnormal heating of heat sink fins</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check for an output short-circuit or ground fault</li> <li>▪ Check the ambient temperature</li> <li>▪ Increase the acceleration time</li> </ul>
SC2	<ul style="list-style-type: none"> <li>▪ Instantaneous overcurrent during constant speed or abnormal heating of heat sink fins</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check for output short-circuit or ground fault</li> <li>▪ Check ambient temperature</li> <li>▪ Eliminate excessive changes in load</li> </ul>
SC3	<ul style="list-style-type: none"> <li>▪ Instantaneous overcurrent during deceleration or abnormal heating of heat sink fins</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check for output short-circuit or ground fault</li> <li>▪ Check ambient temperature</li> <li>▪ Increase the deceleration time</li> </ul>
OC1	<ul style="list-style-type: none"> <li>▪ Overcurrent during acceleration</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check for an open output phase and Eliminate sudden changes in load</li> <li>▪ Increase the acceleration and deceleration times</li> <li>▪ Adjust the torque boost level</li> <li>▪ Check the restart in inertia</li> <li>▪ Do not switch the electromagnetic contactor at the load side</li> </ul>
OC2	<ul style="list-style-type: none"> <li>▪ Overcurrent during constant speed</li> </ul>	
OC3	<ul style="list-style-type: none"> <li>▪ Overcurrent during deceleration</li> </ul>	
OU1	<ul style="list-style-type: none"> <li>▪ Excessive internal DC voltage during acceleration</li> </ul>	<ul style="list-style-type: none"> <li>▪ Increase the acceleration time</li> </ul>
OU2	<ul style="list-style-type: none"> <li>▪ Excessive internal DC voltage during constant speed</li> </ul>	<ul style="list-style-type: none"> <li>▪ Eliminate excessive changes in load</li> </ul>
OU3	<ul style="list-style-type: none"> <li>▪ Excessive internal DC voltage during deceleration</li> </ul>	<ul style="list-style-type: none"> <li>▪ Increase the deceleration time</li> </ul>
LU	<ul style="list-style-type: none"> <li>▪ Power supply voltage drops to less than 85% of rating</li> </ul>	<ul style="list-style-type: none"> <li>▪ Measure the power supply voltage and Check output open-phase</li> <li>▪ Consider using the instantaneous power failure restart function</li> </ul>
OL	<ul style="list-style-type: none"> <li>▪ An output current exceeding 125% of the electronic thermal setting current or 140% or more of the inverter rated current (3.6A) occurs for more than 1 minute.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check the electronic thermal setting current</li> <li>▪ Check and adjust the torque boost level</li> <li>▪ Reduce the load</li> </ul>
AU	<ul style="list-style-type: none"> <li>▪ The abnormal stop command was sent.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check the communication processing of controller</li> </ul>
OP	<ul style="list-style-type: none"> <li>▪ The power supply was applied while the run signal was ON</li> <li>▪ The run signal was turned ON while setting data in the stopped mode, and the mode was returned to the operation mode with the MODE button</li> <li>▪ Timeover was detected</li> <li>▪ The communication connector was removed during the operation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check the start mode (parameter P23)</li> <li>▪ Check the run signal when the data is being set.</li>   <li>▪ Check the communication setting and wirings</li> <li>▪ Reduce the noise around the inverter</li> </ul>