Specification

■ Rated Input and Output: Input voltage of 200V class (0.75~22kW)

Т	ype: SV □□□ iS7-2 □]	0008	0015	0022	0037	0055	0075	0110	0150	0185	0220
	[HP]		1	2	3	5	7.5	10	15	20	25	30
ľ	Motor Applied *1)	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Rated Capacity [kVA] *2)		1.9	3.0	4.5	6.1	9.1	12.2	17.5	22.9	28.2	33.5	
Datad	Rated Current [A]*3)	СТ	5	8	12	16	24	32	46	60	74	88
		VT	8	12	16	24	32	46	60	74	88	124
Output	Output Frequency [Hz	0 ~ 400 [Hz] *4)										
	Output Voltage [V]	3-phase 200 ~ 230V *5)										
	Available Voltage [V]		3-phase 200 ~ 230 VAC (-15% ~ +10%)									
Rated	Frequency [Hz]	50 ~ 60 [50 ~ 60 [Hz] (±5%)									
Input	Poted Current [A]	СТ	8.3	12.9	18.6	24	32.9	41.4	58	69	88	96
	Rated Current [A]	VT	7	10.6	14.8	21.5	28	42	52	60	75	107

■ 2.1.2 Rated Input and Output: Input voltage of 200V class (30 75kw)

Type: SV □□□iS7-2 □			0300	0370	0450	0550	0750	-	-	-	-	-
	Mo <mark>tò</mark> r Applied [kW]			50	60	75	100	-	-	-	-	-
				37	45	55	75	-	-	-	-	-
	Rated Capacity [kVA] *2)		46	57	69	84	116	-	-	-	-	-
Datad	Rated Current [A]*3)	СТ	116	146	180	220	288	-	-	-	-	-
Rated		VT	146	180	220	288	345	-	-	-	-	-
Output	Output Frequency [Hz	0 ~ 400 [Hz] *4) (Sensorless -1: 0 ~ 300Hz, Sensorless -2, Vector. 0 ~ 120Hz)										
	Output Voltage [V]	3-phase 200 ~ 230V *5)										
	Available Voltage [V]		3-phase 200 ~ 230 VAC (-15% ~ +10%)									
Rated	Input Frequency	50 ~ 60 [Hz] (±5%)										
Input	Rated Current [A]	СТ	121	154	191	233	305	-	-	-	-	-
		VT	152	190	231	302	362	-	-	-	-	-

XX Non DCR products are provided wamanty service when used in CT (Heavy duty) load rating only.

■ Rated Input and Output: Input voltage of 400V class (0.75~22kW)

Т	ype: SV □□□ iS7-4 □]	8000	0015	0022	0037	0055	0075	0110	0150	0185	0220	
	[HP]		1	2	3	5	7.5	10	15	20	25	30	
ľ	Motor Applied *1)	[kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	
Rated Capacity [kVA] *2)		*2)	1.9	3.0	4.5	6.1	9.1	12.2	18.3	22.9	29.7	34.3	
Datad	Rated Current [A]*3)	CT	2.5	4	6	8	12	16	24	30	39	45	
Rated		VT	4	6	8	12	16	24	30	39	45	61	
Output	Output Frequency [Hz	0 ~ 400 [Hz] *4)											
	Output Voltage [V]	3-phase 380 ~ 480V *5)											
	Available Voltage [V]			3-phase 380 ~ 480 VAC (-15% ~ +10%)									
Rated	Frequency	50 ~ 60 [50 ~ 60 [Hz] (±5%)										
Input	Data d Commant [A]	СТ	4.3	7.2	10.6	15.4	21	25.8	38.7	43.85	56.9	57.4	
	Rated Current [A]	VT	3.5	5.3	7.3	10.8	13.8	22.5	26.1	33.2	40	52.2	

^{*1)} Motor Applied indicates the maximum capacity of a standard 4 pole OTIS-LG motor.

^{*2)} Rated Capacity: the input capacity of a 200V class is based on 220V and that of a 400V class is based on 440V. The current rating is based on CT current.

^{*3)} The output of rated current is limited according to the setting of the carrier frequency (CON-04).

^{*4)} You can set the frequency at up to 300Hz by selecting 3, 4 Sensorless-1, Sensorless-2 as the control mode (DRV-09 Control Mode).

¹⁵⁾ The maximum output voltage does not go over the supplied power voltage. You can select the output voltage as you want below the supplied power voltage.



Specifications

■ Rated Input and Output: Input voltage of 400V class (30°375kW)

Ţ	ype: SV □□□iS7-4 □]	0300	0370	0450	0550	0750	0900	1100	1320	1600	1850	2200	2850	3150	3750
MatauAu	Motor Applied *1) [HP]		40	50	60	75	100	120	150	180	225	250	300	375	420	500
Motor Ap	opilea "	[kW]	30	37	45	55	75	90	110	132	160	185	220	285	315	375
	Rated Capacity [kVA]	*2)	46	57	69	84	116	139	170	201	248	286	329	416	467	557
Datad	VT	СТ	61	75	91	110	152	183	223	264	325	370	432	547	613	731
Rated		VT	75	91	110	152	183	223	264	325	370	432	547	613	731	877
Output	Output Frequency [Hz	0 ~ 400 [Hz] (Sensorless-1: 0 ~ 300Hz, Sensorless-2, Vector: 0 ~ 120Hz) *4)														
	Output Voltage [V]	3-phase 380 ~ 480V *5)														
	Available Voltage [V]				3-phase 380 ~ 480 VAC (-15% ~ +10%)											
Rated	Frequency [Hz]	50 ~ 60 [Hz] (±5%)														
Input	Dated Comment [A]	СТ	57	69	83	113	154	195	239	286	362	404	466	605	674	798
	Rated Current [A]	VT	90	109	123	162	195	237	282	350	403	463	590	673	796	948

^{*1)} Motor Applied indicates the maximum capacity of a standard 4 pole OTIS-LG motor.

Control

Control Method	V/F control, V/F PG, slip compensation, sensorless vector control, vector control				
Frequency Setting Resolution	Digital command: 0.01Hz				
	Analog command: 0.06Hz (maximum frequency: 60Hz)				
Francisco Talarana	Digital command operation: 0.01% of the maximum frequency				
Frequency Tolerance	Analog command operation: 0.1% of the maximum frequency				
V/F Pattern	Linear, double reduction, user V/F				
Overload Capacity	CT current rating :150% for 1 minute, 200% for 22 seconds, VT current rating :110% for 1 minute				
Torque Boost	Manual torque boost, automatic torque boost				

^{*2)} Rated Capacity: the input capacity of a 200V class is based on 220V and that of a 400V class is based on 440V. The current rating is based on CT current.

^{*3)} The output of rated current is limited according to the setting of the carrier frequency (CON-04).

^{*4)} You can set the frequency at up to 300Hz by selecting 3, 4 Sensorless-1, Sensorless-2 as the control mode (DRV-09 Control Mode).

^{*5)} The maximum output voltage does not go over the supplied power voltage. You can select the output voltage as you want below the supplied power voltage.

Specifications

Specifications

	Operating Method	Selectable among keypad/terminal block/communication operation					
	Eroguanou Catting	Analog: 0 ~ 10[V], -10 ~ 10[V], 0 ~ 20[mA]					
	Frequency Setting	Digital: keypad					
		PID control, up-down operation, 3-wire operation, DC b	orake, frequency limit, frequency jump,				
	Operating Function	second function, slip compensation, reverse rotation pr	revention, auto restart,				
•	Operating Function	inverter by-pass, auto tune flying start, energy buffering, power braking,					
		flux braking, leakage current reduction, MMC, easy start					
		NPN / PNP selectable					
		Function: forward operation; reverse operation; reset; external trip; emergency stop;					
	Multi-function terminal	jog operation; sequential frequency-high; medium and low; multi-level acceleration and deceleration-high;					
Input	(8 points)	medium and low; D.C. control during stop; selection of a second motor; frequency increase;					
mpat	P1 ~ P81 *1)	frequency decrease; 3-wire operation; change to general operation during PID operation;					
	111101	main body operation during option operation; analog command frequency fixation;					
		acceleration and deceleration stop selectable					
	Multi-function open		Below DC 24V 50mA				
	collector terminal	Inverter fault output	Delow Do 244 John				
Output	Multi-function	involtor taut output	Below (N.O., N.C.) AC250V 1A,				
	relay terminal		Below DC 30V 1A				
	Analog output	$0 \sim 10$ Vdc (below 10mA): selectable from frequency, of	current, voltage, direct current voltage				

^{*1)} The Functions for Multi-function terminal available according to IN-65~72 parameter setting of IN Group.

■ Protective Functions

	Over voltage, low voltage, over current, over current detection, inverter overheat, motor thermal protection					
Trip	phase loss protection, overload protection, communication error, frequency command loss,					
	hardware failure, cooling fan failure, pre-PID failure, no motor trip, external brake trip. etc					
Alarm	Stall prevention, overload, diminished load, encoder error, fan failure, keypad command loss,					
Alam	speed command loss.					
	Below CT class 15 msec (VT class 8 msec): operation continues					
Instantaneous Interruption *2)	(within rated input voltage, rated output)					
	Over CT class 15 msec (VT class 8 msec): automatic restart					

^{*2)} Operation at the CT (Heavy Duty) current rating

■ Structure and Use Environment

Cooling Mothod	Forced air blast cooling: 0.75 ~ 15kW (200/400V class), 22kW (400V class)				
Cooling Method	Inhalation cooling: 22 ~ 75kW (200V class), 30 ~ 160kW (400V class)				
	Below 75kW: Open Type(IP21), UL enclosed type 1(Option) *3)				
Protection Structure	30 ~ 75kW 200V, Above 90kW: Open type(IP00)				
	The others (Below 22kW): Enclosed IP54 type, UL enclosed type 12				
	CT (Heavy Duty) load: -10 ~ 50°C, (14 ~ 122°F) without ice or frost				
Surrounding Temperature	VT (Normal Duty) load: -10~ 40° C (14 ~ 122°F) without ice or frost				
Surrounding reinperature	(It is recommended that you use less than 80% load when you use VT load at 50°C (122°F))				
	IP54 product: -10~40°C (14~122°F) without ice or frost				
Preservation Temperature	-20 ~ 65°C (-4 ~ 149°F)				
Surrounding Humidity	Below 90% RH of relative humidity (with no dew formation)				
Altitude, Vibration	Below 1,000m (3280 ft), below 5.9m/sec 2 (19.36 ft/sec 2, 0.6G)				
Environment	There should be no corrosive gas, flammable gas, oil mist or dust.				
Environment	Pollution Degree 2 Environment				

^{*3)} UL Enclosed type 1 with conduit box installed