

A-2

Series	ME300 Series												MS300 Series																																	
																																														
	single phase						three phase						single phase						three phase																											
Model number VFD-__ME/MS/E	1A6	2A8	4A8	7A5	11A	1A5	2A7	4A2	5A5	9A0	13A	17A	1A6	2A8	4A8	7A5	11A	1A5	2A7	4A2	5A5	9A0	13A	17A	25A	32A	38A	45A																		
Frame size	A	A	B	C	C	A	A	B	C	C	D	D	B	B	B	C	C	B	B	B	C	C	D	D	E	E	F	F																		
Max. applicable motor output	kW	0.2	0.4	0.75	1.5	2.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	0.2	0.4	0.75	1.5	2.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22																	
Output rating																																														
Rated output capacity	kVA	0.7	1.2	1.9	3.2	4.8	1.4	2.3	3.5	5	8	12	15.6	0.7	1.2	1.9	3.2	4.8	1.4	2.3	3.5	5	8	9.9	13	19.1	24.4	29	34.4																	
Rated output current	A	1.8	3.2	5	8.5	12.5	1.8	3	4.6	6.5	10.5	15.7	20.5	1.8	3.2	5	8.5	12.5	1.8	3	4.6	6.5	10.5	15.7	20.5	28	36	41.5	49																	
Output frequency	Hz	0.0 - 599Hz												0.0 - 599Hz																																
Carrier frequency	kHz	2 - 15kHz												2 - 15 kHz (default 4)																																
Rated output capacity	kVA	0.6	1.1	1.8	2.9	4.2	1.1	2.1	3.2	4.2	6.9	9.9	13	0.6	1.1	1.8	2.9	4.2	1.1	2.1	3.2	4.2	6.9	9.9	13	19.1	24.4	29	34.3																	
Rated output current	A	1.6	2.8	4.8	7.5	11	1.5	2.7	4.2	5.5	9	13	17	1.6	2.8	4.8	7.5	11	1.5	2.7	4.2	5.5	9	13	17	25	32	38	45																	
Carrier frequency	kHz	2 - 15kHz												2 - 15kHz (default 4)																																
Input rating																																														
Input current (heavy duty)	A	3.4	5.9	10.1	15.8	23.1	1.7	3	4.6	6.1	9.9	14.3	18.7	3.4	5.9	10.1	15.8	23.1	2.1	3.7	5.8	6.1	9.9	14.3	18.7	27.5	35.2	41.8	49																	
Input current (normal duty)	A	3.8	6.7	10.5	17.9	26.3	2	3.3	5.1	7.2	11.6	17.3	22.6	3.8	6.7	10.5	17.9	26.35	2.5	4.2	6.4	7.2	11.6	17.3	22.6	30.8	39.6	45.7	53.9																	
Rated voltage	V	1-phase 200-240V (-15+10%)												3-phase AC 380V ± 480V (-15+10%)																																
Operating voltage range	V	170 - 265V												323 - 528V																																
Frequency range	Hz	47 - 63Hz ± 5%												47 - 63Hz ± 5%																																
Cooling method		convection			fan			convection			fan cooling			conv.			fan cooling			fan cooling																										
Braking chopper		built-in												built-in																																
DC reactor		optional												optional																																
Control method		V/F, SVC												V/F, SVC,																																
Starting torque	%	up to 150% at 3 Hz including auto-torque/slip												up to 150% at 3.0Hz including auto-torque/slip compensation																																
Max. output frequency	Hz	0.00-599.00 Hz												0.00-599.00 Hz																																
Frequency output accuracy		-												-																																
Frequency setting resolution	Hz	0.01Hz												0.01Hz																																
Overload tolerance (normal duty)		120% of rated output current for 60 seconds; 150% for 3 seconds												120% of rated output current for 60 seconds; 150% for 3 seconds																																
Overload tolerance (heavy duty)		150% of rated output current for 60 seconds; 200% for 3 seconds												150% of rated output current for 60 seconds; 200% for 3 seconds																																
Frequency setting signal		0 - 10V / 4(0)-20mA, PWM pulse width input (1kHz), pulse input (10kHz)												0 - +10V / -10V + 10V, 4 - 20 mA / 0 ~ +10V, 1 pulse input (33 kHz), 1 pulse output (33 kHz)																																
Accel./decel. Time		0.1 - 600 sec. (2 settings accel/decel time)												0.1 - 600 sec. (2 independent settings accel/decel time)																																
Main control functions		2 independent motor parameter settings, fast run, deceleration energy back (DEB) function, fast deceleration function, selectable master and auxiliary frequency source, momentary power loss ride through, speed search, over-torque detection, 16-step speed accel/decel timer, S-curve accel/decel, JOG frequency, upper/lower limits frequency ref, DC injection braking at start and stop, PID control, simple positioning function, Modbus integrated as standard												Multiple motor switches (max. 4 independent motor parameter settings), fast run, deceleration energy back (DEB) function, wobble frequency function, fast deceleration function, master and auxiliary frequency source selectable, momentary power loss ride thru, speed search, over-torque detection, 16-step speed (max.), accel/decel time switch, S-curve accel/decel, 3-wire sequence, JOG frequency, upper/lower limits for frequency reference, DC injection braking at start and stop, PID control, built-in PLC (2k steps), simple positioning function, MODBUS is integrated as standard																																
Fan control		fan control												fan control																																
Motor protection		electronic thermal relay and phase failure protection												over/under-volt/current, external fault, overload, IGBT short circuit, PTC																																
Over-current protection		yes												yes																																
Over-voltage protection		yes												yes																																
Over-temperature protection		yes												yes																																
Stall prevention		Stall prevention during acceleration, deceleration and running independently												Stall prevention during acceleration, deceleration and running independently																																
Re-start after momentary power off		yes												yes																																
Ground current protection		yes												yes																																
EMI filter		no</td																																												