Standard Specifications

General-Purpose Compact V/f Control J1000

200 V Class

Mode	Three-Phase CIMF	R-J 2A CO	0001	0002	0004	0006	0008	0010	0012	0018	0020
Mode	Single-Phase CIM	R-JDBADDDD	0001	0002	0003	0006	_	0010	-	-	-
Max	. Applicable Motor	ND	0.2	0.4	0.75	1.1	1.5	2.2	3	3.7	5.5
Cap	acity kW	HD	0.1	0.2	0.4	0.75	1.1	1.5	2.2	3	3.7
	Rated Output	ND	0.5	0.7	1.3	2.3	3.0	3.7	4.6	6.7	7.5
	Capacity kVA	HD	0.3	0.6	1.1	1.9	2.6	3	4.2	5.3	6.7
	Rated Output	ND	1.2	1.9	3.5 (3.3)	6	8	9.6	12	17.5	19.6
=	Current A	HD	0.8	1.6	3	5	6.9	8	11	14	17.5
Outp	Overload Toleran	ce			output current for repetitive lo		Rating: 150%	of rated outpu	t current for 6	0 s.	
	Max. Output Volta	age			y: three-phase 2 y: three-phase			o ,		,	
	Max. Output Fred	quency	400 Hz (user-	-set)							
	Rated Voltage/Rated Three-phase AC power supply: 200 to 240 V 50/60 Hz, Single-phase AC power supply: 200 to 240 V 50/60 Hz,										
Frequency DC power supply: 270 to 340 V											
Po	Allowable Voltage	Fluctuation	-15 to +10%)							
	Allowable Frequence	cy Fluctuation	±5%								

400 V Class

Мо	del CIMR-J	4A0000	0001	0002	0004	0005	0007	0009	0011					
Max	. Applicable Motor	ND	0.4	0.75	1.5	2.2	3	3.7	5.5					
Cap	acity kW	HD	0.2	0.4	0.75	1.5	2.2	3	3.7					
	Rated Output	ND	0.9	1.6	3.1	4.1	5.3	6.7	8.5					
	Capacity kVA	HD	0.9	1.4	2.6	3.7	4.2	5.5	7					
	Rated Output	ND	1.2	2.1	4.1	5.4	6.9	8.8	11.1					
utput	Current A	HD	1.2	1.8	3.4	4.8	5.5	7.2	9.2					
On	Overload Toleran	ce	ND Rating: 120% (Derating may be			Rating: 150% of	rated output curre	ent for 60 s.						
	Max. Output Volt	age	Three-phase 380	to 480 V (relative	to input voltage)									
	Max. Output Frequency 400 Hz (user-set)													
er	Rated Voltage/Rat	ed Frequency	Three-phase AC power supply: 380 to 480 V 50/60 Hz, DC power supply: 510 to 680 V											
OWE	Alleway by Marie That at an afficient of the state of the													
Ф	Allowable Frequen	cy Fluctuation	±5%											

	Thirton opecification	
	Item	Specifications
	Control Method	V/f Control
	Frequency Control Range	0.01 to 400 Hz
	Frequency Accuracy	Digital reference: within ±0.01% of the max. output frequency (−10 to +50°C)
	(Temperature Fluctuation)	Analog reference: within ±0.1% of the max. output frequency (25 ±10°C)
1	Frequency Setting Resolution	Digital reference: 0.01 Hz
CS		Analog reference: 1/1000 of max. output frequency
Characteristics	Output Frequency Resolution	20 bit resolution at maximum output frequency
octe	Frequency Setting Signal	Main frequency reference: 0 to +10 Vdc (20 k Ω), 4 to 20 mA (250 Ω), 0 to 20 mA (250 Ω)
lara	Starting Torque	150% / 3 Hz
Ö	Speed Control Range	1:20 to 1:40
itro	Accel/Decel Time	0.01 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
Control	5	① Instantaneous decel torque: over 150% for 0.1/0.2 kW, over 100% for 0.4/ 0.75 kW, over 50% for 1.5 kW, and over 20% for 2.2 kW and above.
	Braking Torque	
	V/f Characteristics	© Continuous regen. torque: approx. 20% (approx. 125% with dynamic braking resistor option: 10% ED, 10 s, Internal braking transistor)
	V/I Characteristics	User-selected programs, V/f preset patterns possible
	Main Control Functions	Momentary power loss ride-thru, Speed search, 9-step speed (max), Accel/decel time switch, S-curve accel/decel, 3-wire
	Main Control Functions	sequence, Cooling fan on/off switch, Slip compensation, Torque compensation, Frequency jump, Upper/lower limits for frequency reference, DC injection braking at start and stop, Overexcitation braking, Fault restart
		· UL508C
St	andards Compliant	· IEC/EN61800-3, IEC/EN61800-5-1
Ar	alog Input	1 (4-20 mA/ 0-10V)
Ar	nbient Temperature	-10 to 50 deg C; derating above 50 to 60 deg C at 2% per 1 deg C
		(7) multi-function digital inputs
		(1) hardwire baseblock
		(2) multi-function analog inputs
Δ.	veileble I/O	(1) multi-function pulse inputs
A	ailable I/O	(1) multi-function relay output
		(2) multi-function photo-coupler outputs
		(1) multi-function 0-10 Vdc analog outputs
		(1) multi-function pulse outputs
1200		[(1) main tallotton paloo outputs



General-Purpose Compact Vector Control V1000

200 V Class

Model	Three-Phase CIMR-	V 2A 000	0001	0002	0004	0006	8000	0010	0012	0018	0020	0030	0040	0056	0069	
Mo	Single-Phase CIMF	R-VDBADDDD	0001	0002	0003	0006	-	0010	0012	-	0018	-	-	-	-	
Ma	x. Applicable Motor	ND	0.2	0.4	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	
Ca	pacity kW	HD	0.1	0.2	0.4	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	
	Rated Output	ND	0.5	0.7	1.3	2.3	3	3.7	4.6	6.7	7.5	11.4	15.2	21.3	26.3	
	Capacity kVA	HD	0.3	0.6	1.1	1.9	2.6	3	4.3	5.3	6.7	9.5	12.6	17.9	22.9	
	Rated Output	ND	1.2	1.9	3.5 (3.3)	6	8	9.6	12	17.5	19.6	30	40	56	69	
Ħ	Current A	HD	0.8	1.6	3	5	6.9	8	11	14	17.5	25	33	47	60	
Output	Overload Tolera	ance	ND Rating: 120% of rated output current for 60 s. HD Rating: 150% of rated output current for 60 s. (Derating may be required for repetitive loads)													
	Max. Output Vo	oltage			ower sup											
	Max. Output Fr	requency	400 Hz (user-set)													
	Rated Voltage/F	Rated	Three-phase AC power supply: 200 to 240 V 50/60 Hz, Single-phase AC power supply: 200 to 240 V 50/60 Hz,													
Frequency DC power supply: 270 to 340 V																
Power	Vallowable Voltage															
Po	Fluctuation -15 to +10%															
	Allowable Frequ	ency	±5%													
	Fluctuation															

				C0000000000000000000000000000000000000		Encourage Control							
Model	Three-Phase CIMR-	VO4ADDDD	0001	0002	0004	0005	0007	0009	0011	0018	0023	0031	0038
Ma	x. Applicable Motor	ND	0.4	0.75	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5
Ca	pacity kW	HD	0.2	0.4	0.75	1.5	2.2	3	3.7	5.5	7.5	11	15
	Rated Output	ND	0.9	1.6	3.1	4.1	5.3	6.7	8.5	13.3	17.5	23.6	29
	Capacity kVA	HD	0.9	1.4	2.6	3.7	4.2	5.5	7	11.3	13.7	18.3	23.6
	Rated Output	ND	1.2	2.1	4.1	5.4	6.9	8.8	11.1	17.5	23	31	38
put	Current A	HD	1.2	1.8	3.4	4.8	5.5	7.2	9.2	14.8	18	24	31
Overload Tolerance Current A HD 1.2 1.8 3.4 4.8 5.5 7.2 9.2 14.8 18 24 ND Rating: 120% of rated output current for 60 s. (Derating may be required for repetitive loads)										i0 s.			
	Max. Output Vo	oltage	Three-ph	ase 380 t	o 480 V (p	roportion	al to input	voltage)					
	Max. Output Fr	requency	400 Hz (user-set)									
	Rated Voltage/F	Rated	Thurs al	10 -		1 . 000 .	4001450	(00 11 - D)					
	Frequency		rnree-pr	iase AC p	ower supp	oly: 380 to	480 V 50,	60 Hz, D0	power s	upply: 510) to 680 V		
Power	Allowable Volta	ige	-15 to +	100/									
Po	Fluctuation		-15 (0 +	10%									
	Allowable Freque	ency	±5%										
	Fluctuation	1											

	mmon Specification	Specifications
	Control Method	Open Loop Vector Control (Current Vector), V/f Control, Open Loop Vector Control for PM motors (for SPM and IPM motors)
	Frequency Control Range	0.01 to 400 Hz
	Frequency Accuracy	Digital reference: within ±0.01% of the max. output frequency (-10 to +50°C)
	(Temperature Fluctuation)	Analog reference: within ±0.1% of the max. output frequency (25 ±10°C)
	Output Frequency Resolution	20 bit of maximum output frequency (parameter E1-04 setting)
	Frequency Setting Signal	Main frequency reference: 0 to +10 Vdc (20 k Ω), 4 to 20 mA (250 Ω), 0 to 20 mA (250 Ω) Main speed reference: Pulse Train Input max. 32 kHz
	Starting Torque	200% / 0.5 Hz (assumes Heavy Duty rating IM of 3.7 kW or less using Open Loop Vector Control), 50% / 6 Hz (assumes Open Loop Vector Control for PM motors)
10	Speed Control Range	1:100 (Open Loop Vector Control), 1:20 to 40 (V/f Control), 1:10 (Open Loop Vector Control for PM motors)
stics	Speed Control Accuracy	±0.2% in Open Loop Vector Control (25 ±10°C)
Characteristics	Speed Response	5 Hz in Open Loop Vector (25 ±10°C) (excludes temperature fluctuation when performing Rotational Auto-Tuning)
Che	Torque Limit	Open Loop Vector Control allows separate settings in four quadrants.
trol	Accel/Decel Time	0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
Control	Braking Torque	①Instantaneous decel torque: over 150% for 0.1/0.2 kW, over 100% for 0.4/0.75 kW, over 50% for 1.5 kW, and over 20% for 2.2 kW and above (overexcitation braking/High-Slip Braking: approx. 40%). ②Continuous regen. torque: approx. 20% (approx. 125% with dynamic braking resistor option: 10% ED,
		10 s, Internal braking transistor)
	V/f Characteristics	User-selected programs, V/f preset patterns possible
	Main Control Functions	Momentary power loss ride-thru, Speed search, Overtorque detection, Torque limit, 17-step speed (max), Accel/decel time switch, S-curve accel/decel, 3-wire sequence, Auto-Tuning (rotational, stationary tuning for resistance between lines), Dwell, Cooling fan on/off switch, Slip compensation, Torque compensation, Frequency jump, Frequency upper/lower limit settings, DC injection braking at start/stop, Overexcitation braking High slip braking, PID control (with sleep function), Energy saving control, MEMOBUS communication (RS-485/422 max. 115.2 kbps), Fault restart, Application presets, DriveWorksEZ (customization function), Removable terminal block with parameter backup function
St	andards Compliant	· UL508C · IEC/EN61800-3, IEC/EN61800-5-1 · ISO/EN13849-1 Cat.3 PLd, IEC/EN61508 SIL2
Pr	otection Design	IP20 open-chassis, NEMA Type 1 enclosure · UL508C · IEC/EN61800-3, IEC/EN61800-5-1
An	bient Temperature	-10 to 50 deg C; derating above 50 to 60 deg C at 2% per 1 deg C
		(7) multi-function digital inputs
	0.	(1) hardwire baseblock
		(2) multi-function analog inputs
Av	ailable I/O	(1) multi-function pulse inputs
		(1) multi-function relay output
		(2) multi-function photo-coupler outputs
		(1) multi-function 0-10 Vdc analog outputs
		(1) multi-function pulse outputs

General-Purpose

High Performance Vector Control A1000

200 V Class

N	odel CIMR-A□2A	3000	0004	0006	0008	0010	0012	0018	0021	0030	0040	0056	0069	0004	0440			lesson and the second				
M	ax. Applicable	ND	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11			0081	0110	0138	0169	0211	0250	0312	0360	0415
M	otor Capacity kW	HD	0.4	0.75	1.1	1.5	2.2	3	3.7	5.5		15	18.5	22	30	37	45	55	75	90	110	110
	Rated Output	ND	1.3	2.3	3	3.7	4.6	6.7	8		7.5	11	15	18.5	22	30	37	45	55	75	90	110
	Capacity kVA	HD	1.2	1.9	2.6	3	4.2			11.4	15.2	21	26	31	42	53	64	80	95	119	137	158
	Rated Output	ND	3.5	6	8	9.6		5.3	6.7	9.5	12.6	17.9	23	29	32	44	55	69	82	108	132	158
		HD	3.2	5	6.9		12	17.5	21	30	40	56	69	81	110	138	169	211	250	312	360	415
Ħ	Overload	110				8	11	14	17.5	25	33	47	60	75	85	115	145	180	215	283	346	415
Output	Tolerance		INDIA	ating: 120% of rated output current for 60 s ating: 150% of rated output current for 60 s.(Derating may be required for repetitive loads)																		
0	Max. Output		HD K	ating:	150%	of rat	ed ou	tput c	urrent	for 60	s.(De	rating	may b	e requ	uired f	or rep	etitive	loads)			
			Three																,			
	Voltage						(10	idtive	to inpu	at voit	age)											
	Max. Output		400 H	17 (1186	r-cot)																	
	Frequency			(400	1 301)																	
	Rated Voltage	/	Thron	nhaa																		
	Rated Frequer	ncy	Three	-pnasi	e AC p	ower	suppl	y: 200	to 24	0 V 50	/60 H	z, DC	power	supp	ly: 270) to 34	10 V					
Power	Allowable Volt	age	450/																			
Po	Fluctuation		-15%	to +1	0%																	
	Allowable Frequ	ency																				
	Fluctuation		±5%																			

N	odel CIMR-A 4A	000	0002	0004	0005	0007	0009	0011	0018	0023	0021	0000	0044	0050	0070	0000												
М	ax. Applicable	ND	0.75	1.5	2.2	3	3.7	5.5	7.5	11	15	10.5	0044	0008	0072	0088	0103	0139	0165	0208	0250	0296	0362	0414	0515	0675	0930	1200
М	otor Capacity kW	HD	0.4	0.75	1.5	2.2	3	3.7	1.0	11	10	10.0	22	30	3/	45	55	75	90	110	132	160	185	220	250	355	500	630
	Rated Output	ND	1.6	3.1	4.1	5.3	6.7	8.5	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	315	450	560
		HD	1.4	2.6	3.7				13.3	17.5	24	29	34	44	55	67	78	106	126	159	191	226	276	316	392	514	709	915
	-	ND	2.1	4.1	5.4	6.9	5.5		11.3	-		24	30	34	46	57	69	85	114	137	165	198	232	282	343	491	617	831
		HD	1.8					11.1	17.5	23	31	38	44	58	72	88	103	139	165	208	250	296	362	000000	515		930	1200
t			-	3.4	4.8	5.5			14.8	18	24	31	39	45	60	75	91	112	150	180	216	198	304	370	450			1090
Output	Tolerance		HD	Datin	g. 12	20%	of ra	ted o	outpu	ut cu	rrent	for 6	60 s													000	010	1000
10	Max. Output		1101	naum	ating: 150% of rated output current for 60 s.(Derating may be required for repetitive loads)																							
	Voltage		Thre	e-ph	ase 3	380 t	o 48	0 V (relati	ive to	o inp	ut vo	Itage	e)													input	١٧×
	Max. Output		100	/																							0.9	15
	Frequency		400	Hz (L	ser-	set)																						
	Rated Voltage	/																										
1	Rated Frequen	псу	Thre	e-ph	ase A	AC p	ower	sup	ply: 3	380 t	to 48	0 V 5	50/60	Hz,	DC	powe	er su	pply:	510	to 6	80 V							
wer	Allowable Volta	age																										
Pol	Fluctuation		-159	% to	+109	%																						
	Allowable Freque	ency	1 500																									
	Fluctuation		±5%																									

	Item	Specifications
	Control Method	V/f Control, V/f Control with PG, Open Loop Vector Control, Closed Loop Vector Control with PG, Open Loop Vector for PM, Closed Loop Vector for PM, Advanced Open Loop Vector for PM
	Frequency Control Range	0.01 to 400 Hz
	Frequency Accuracy	Digital referece: within ±0.01% of the max. output frequency (-10 to +40°C)
	(Temperature Fluctuation)	Analog referece: within $\pm 0.1\%$ of the max. output frequency (25°C ± 10 °C)
	Output Frequency Resolution	0.001 Hz
	Frequency Setting	Main frequency reference: -10 to $+10$ Vdc, 0 to $+10$ Vdc (20 k Ω), 4 to 20 mA (250 Ω), 0 to 20 mA (250 Ω)
	Resolution	Main speed reference: Pulse train input (max. 32 kHz)
	Starting Torque	150%/3 Hz (V/f Control and V/f Control with PG), 200%/0.3 Hz (Open Loop Vector Control), 200%/0 r/min (Closed Loop Vector Control, Closed Loop Vector Control for PM, and Advanced Open Loop Vector Control for PM), 100%/5% speed (Open Loop Vector Control for PM)
S	Consol Control	1:1500 (Open Loop Vector Control with PG and Closed Loop Vector for PM)
stic	Speed Control	1:200 (Open Loop Vector Control) 1:40 (V/f Control and V/f Control with PG)
teri	Range	1:20 (Open Loop Vector for PM) 1:100 (Advanced Open Loop Vector for PM)
Control Characteristics	Speed Control Accuracy	±0.2% in Open Loop Vector Control (25°C ±10°C), 0.02% in Closed Loop Vector Control (25°C±10°C)
ro	Speed	10 Hz in Open Loop Vector (25°C ±10°C), 50 Hz in Closed Loop Vector Control (25°C±10°C) (excludes temperature
ont	Response	fluctuation when performing Rotational Auto-Tuning)
	Torque Limit	All Vector Control allows separate settings in four quadrants
	Accel/Decel Time	0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
	Braking Torque	① Short-time decel torque: over 100% for 0.4/ 0.75 kW motors, over 50% for 1.5 kW motors, and over 20% for 2.2 kW and above motors (over excitation braking/High-Slip Braking: approx. 40%)
		© Continuous regen. torque: approx. 20% (approx. 125% with dynamic braking resistor option: 10% ED,10s)
	V/f Characteristics	User-selected programs and V/f preset patterns possible
	Main Control Functions	Torque control, Droop control, Speed/torque control switching, Feed forward control, Zero-servo control, Momentary power loss ride-thru, Speed search, Overtorque detection, Torque limit, 17-step speed (max), Accel/decel time switch, S-curve accel/decel, 3-wire sequence, Auto-tuning (rotational, stationary), Dwell, Online tuning, Cooling fan on/off switch, Slip compensation, Torque compensation, Frequency jump, Upper/lower limits for frequency reference, DC injection braking at start and stop, Overexcitation braking, High slip braking, PID control (with sleep function), Energy saving control, MEMOBUS comm. (RS-485/422 max, 115.2 kbps), Fault restart, Application presets, DriveWorksEZ (customization function), Removable terminal block with parameter backup function
Sta	andards Compliant	 · UL508C · IEC/EN61800-3, IEC/EN61800-5-1 · Two Safe Disable inputs and 1EDM output according to ISO/EN13849-1 Cat. 3 PLd, IEC/EN61508 SIL2
Pre	otection Design	IP00 open-chassis, IP20 NEMA Type 1 enclosure
	nbient Temperature	-10 to 50 deg C; derating above 50 to 60 deg C at 2% per 1 deg C
		(8) multi-function digital inputs (24Vdc)
		(3) multi-function analog inputs (0 +/- 10 VDC, 4-20 mA)
		(1) multi-function pulse inputs
St	tandard I/O	(1) fault relay output (form C)
		(3) multi-function relay outputs (1 Relay, 2 Photocouples)
		(2) multi-function analog outputs (0 +/- 10 VDC)
		()

General-Purpose

Low Harmonics Regenerative Matrix Converter U1000

200 V Class

M	odel CIMR-UA		2 0028	2 0042	2 0054	2 0068	2::0081	2 0104	2 0130	2 0154	2 0192	2 0248
	Rated Input	ND	25	38	49	62	74	95	118	140	175	226
	Current A	HD	20	25	38	49	62	74	95	118	140	175
1	Rated Input	ND	12	17	22	28	34	43	54	64	80	103
utpl	Capacity kVA	HD	9	12	17	22	28	34	43	54	64	80
100	Rated Output	ND	28	42	54	68	81	104	130	154	192	248
Input/Output	Current A	HD	22	28	42	54	68	81	104	130	154	192
Rated												
1	Carrier Frequence	су			4 kHz (Us	ser adjustab	ole up to 10	kHz. Derati	ng may be r	required.)		
	Max. Output Vol	tage						input voltage				
	Max. Output Frequ	uency					400	Hz				
	Rated Voltage/Rated Fre	quency			Three	-phase AC	power supp	oly: 200 to 2	40 Vac 50/6	60 Hz		
er	Allowable Voltage Fluci	tuation					-15% to	+10%				
OW	Allowable Frequency Fluctuation ±3% (Frequency fluctuation rate: 1 Hz/100 ms or less)											
	Allowable Power Volta	age										
	Imbalance between P	hases					less th	an 2%				
Har	monic Current Distortion	Rate					5% or less	(IEEE 519)				
Inp	out Power Factor					0.9	8 or more (for rated loa	ıd)			

40	0 V Class															
M	odel CIMR-UA		4:::0011	40014	4 0021	4 0027	4 000	34 4	0040	4 005	2 4 00	065	4007	7 4 0096	6 4 0124	4 0156
Input/Output	Rated Intput	ND	10	13	19	25	31		36	47	59		70	87	113	142
Out	Current A	HD	8.7	10	13	19	25		31	36	47		59	70	87	113
ant	Rated Input	ND	9	12	17	22	28		33	43	54		64	80	103	130
	Capacity kVA	HD	8	9	12	17	22		28	33	43		54	64	80	103
Rated	Rated Output	ND	11	14	21	27	34		40	52	65		77	96	124	156
	Current A	HD	9.6	11	14	21	27	2000 2000000	34	40	52		65	77	96	124
	odel CIMR-UA		4:::0180	4 0216	-		302 4	0361	4(0414 4	0477	4	0590 4	0720	4:::0900	4 0930
Input/Output	Rated Intput	ND	164	197	218	275		329	37	77	434		537	655	819	846
10n	Current A	HD	142	164	197	218		275	32	29	377	4	134	537	655	819
put	Rated Input	ND	150	180	200	251		300	34	14	396	4	190	598	748	773
d in	Capacity kVA	HD	130	150	180	200		251	30		344	3	396	490	598	748
Rated	Rated Output	ND	180	216	240	302		361	41		477	5	590	720	900	930
R	Current A	HD	156	180	216	240) (302	36	51	414	4	177	590	720	900
put	Overload Tolerar	nce	H	Rating: 1	50% of r	ated outp	out currerating m	ent for ay be	60 s, requi	ND Rat	ing: 120 epetitive)% c	of rated of ds)	output cur	rent for 60)s
Rated output	Carrier Frequence	у	C	IMR-UA4[IMR-UA4[□0011 to	4 0414 4 0930	4: 4 kHz 0: 3 kHz	(User	adjus	stable u	o to 10 k	κHz.	Deratin	g may be	required.)	
Rat	Max. Output Vol	tage					[Depend	ds on i	input vo	Itage					
	Max. Output Frequ	iency							400	Hz	<u> </u>					
	Rated Voltage/Rated Free	quency				Three-ph	ase AC	power	supp	ly: 380	to 480 V	/ac 5	50/60 Hz	Z		
Je.	Allowable Voltage Fluct	tuation						-1	5% to	+10%						
Power	Allowable Frequency Fluc	tuation				±3% (Fr	equenc	y fluct	uatior	rate: 1	Hz/100	ms	or less)			
	Allowable Power Volta	age														
	Imbalance between Phases															
	nonic Current Distortion	Rate						5% o	r less	(IEEE 5	19)					
Inp	ut Power Factor						0.9	8 or n	nore (for rated	l load)					

	Item	Specifications
	Control Method	V/f Control, V/f Control with PG, Open Loop Vector Control, Closed Loop Vector Control, Open Loop Vector Control for PM, Advanced Open Loop Vector Control for PM, Closed Loop Vector Control for PM
	Frequency Control Range	0.01 to 400 Hz
	Frequency Accuracy	Digital reference : within \pm 0.01% of the max. output frequency (-10 to \pm 40°C)
	(Temperature Fluctuation)	Analog reference : within $\pm 0.1\%$ of the max. output frequency (25 $\pm 10^{\circ}$ C)
	Frequency Setting Resolution	Digital reference: 0.01 Hz, Analog reference: 0.03 Hz / 60 Hz (11 bit)
	Output Frequency Resolution	0.001 Hz
	Frequency Setting	Main frequency reference : -10 to +10 Vdc, 0 to 10 Vdc (20 k), 4 to 20 mA (250), 0 to 20 mA (250)
	Resolution	Main speed reference : Pulse train input (max. 32 kHz)
	Starting Torque	V/f Control 150%/3 Hz V/f Control with PG 150%/3 Hz Open Loop Vector Control 200%/0.3 Hz Closed Loop Vector Control 200%/0 min-1 Open Loop Vector Control for PM 100%/5% Speed Advanced Open Loop Vector Control for PM 200%/0 min-1 Closed Loop Vector Control for PM 200%/0 min-1
Control Characteristics	Speed Control Range	V/f Control 1: 40 V/f Control with PG 1: 40 Open Loop Vector Control 1: 200 Closed Loop Vector Control 1: 1500 Open Loop Vector Control for PM 1: 20 Advanced Open Loop Vector Control for PM 1: 100
hai		Closed Loop Vector Control for PM 1: 1500
0 0	Speed Control Accuracy	\pm 0.2% in Open Loop Vector Control (25 \pm 10°C), \pm 0.02% in Closed Loop Vector Control (25 \pm 10°C)
Contr	Speed Response	10 Hz in Open Loop Vector Control (25 \pm 10°C), 250 Hz in Closed Loop Vector Control (25 \pm 10°C) (excludes temperature fluctuation when performing Rotational Auto-Tuning)
	Torque Limit	Parameters setting allow separate limits in four quadrants (available in OLV, CLV, AOLV/PM, CLV/PM)
	Accel/Decel Time	0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
	Braking Torque	Same value as overload tolerance
	V/f Characteristics	User-selected programs and V/f preset patterns possible
	Main Control Functions	Torque Control, Droop Control, Speed/Torque Control switch, Feed Forward Control, Zero Servo Control Momentary Power Loss Ride-Thru, Speed Search, Synchronous Transfer with Commercial Powe Supply, Overtorque detection, torque limit, 17 Step Speed (max.), accel/decel time switch, S-curve accel decel, 3-wire sequence, Auto-Tuning (rotational, stationary), Dwell, cooling fan on/off switch, slip compensation, torque compensation, Frequency Jump, Upper/lower limits for frequency reference, DC Injection Braking at start and stop, High Slip Braking, PID control (with Sleep function), Energy Saving Control, MEMOBUS comm. (RS-485/422, max. 115.2 kbps), Fault Restart, Application Presets, DriveWorksE2 (customized functions), Removable Terminal Block with Parameter Backup, Online Tuning, Overexcitation Deceleration, Inertia (ASR) Tuning, High Frequency Injection, etc.
St	andards Compliance	UL508C • IEC/EN61800-3,IEC/EN61800-5-1 Two Safe Disable inputs and 1EDM output according to ISO/EN13849-1 Cat.3 Ple,IEC/EN61508 SIL3
Pr	otection Design	IP00 open-chassis, IP20 NEMA Type 1 enclosure
Aı	mbient Temperature	-10 to 50 deg C; derating above 50 to 60 deg C at 2% per 1 deg C
		(8) multi-function digital inputs (24Vdc)
		(3) multi-function analog inputs (0 +/- 10 VDC, 4-20 mA)
	a:	(1) multi-function pulse inputs
S	tandard I/O	(1) fault relay output (form C)
		(3) multi-function relay outputs (1 Relay, 2 Photocouples)
		(2) multi-function analog outputs (0 +/- 10 VDC)



General-Purpose Advanced Vector Control Inverter Varispeed G7

200 V Class

Mo	del CIMR-	G7ADDDD		20P4	20P7	21P5	22P2	23P7	25P5	27P5	2011	2015	2018	2022	2030	2037	2045	2055	2075	2090	2110
-	ax. Application of Capacit		kW	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110
_	Rated Ou	tput Capacity	kVA	1.2	2.3	3	4.6	6.9	10	13	19	25	30	37	50	61	70	85	110	140	160
Output	Rated Ou	tput Current	Α	3.2	6	8	12	18	27	34	49	66	80	96	130	160	183	224	300	358	415
no	Max. Out	put Voltage		Three	-phase	, 200/2	08/220	/230/2	40 V (p	roportio	onal to	input vo	oltage)				100		000	000	410
	Max. Output Frequency 400 Hz by parameter settings																				
	Rated Vol	Itage/Rated	-/-	Throo	-nhaco	, 200/2	00/000	100010	40 1/ 5/	2/00 11-											
	Frequenc	У		mee	-priase	, 200/2	06/220	/230/2	40 V, 50	J/60 Hz											
Power	Allowable Fluctuation			-15 t	0 +10%	ó															
	Allowable Fluctuation	Frequency		±5%																	
Hai	rmonic	DC Reactor					(Optiona	1							S	Standar	d			
Su	opression	12-pulse Inpu	t				No	t availa	ble								ailable				

400 V Class

M	odel CIMR-	G7A□□□□		40P4	40P7	41P5	42P2	43P7	45P5	47P5	4011	4015	4018	4022	4030	4037	4045	4055	4075	4090	4110	4132	4160	4185	1220	4300
	ax. Applicat otor Capaci		kW	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	300
+	Rated Ou	utput Capacity	kVA	1.4	2.6	3.7	4.7	6.9	11	16	21	26	32	40	50	61	74	98	130	150	180	210	230	280	340	460
Output	Rated Ou	utput Current	Α	1.8	3.4	4.8	6.2	9	15	21	27	34	42	52	65	80	97	128	165	195	240	270	302	370	450	605
10	Max. Out	put Voltage		Thre	e-pha	ase, 3	80/40	00/41	5/440	/460/4	180 V	(prop	ortion	al to	input	voltad	ae)							0,0	100	000
	Max. Output Frequency 400 Hz by parameter settings																									
	Rated Vo	Itage/Rated		Thre	e-pha	ase, 3	80/40	00/415	5/440	/460/4	180 V	50/6	0 Hz													
Power	Allowable Fluctuation			-15	to +1	0%																				
	Allowable Fluctuation	Frequency on		±5%	ó																					
На	rmonic	DC Reactor					0	ption	al										Stand	dard						
Su	ppression	12-pulse Inpu	t				Not	availa	able										Availa							

	Items	Specifications
	Control Method	Sine wave PWM (Flux Loop Vector Control, Open Loop Vector Control 1 and 2, V/f Control, V/f with PG Control)
	Starting Torque	150% at 0.3 Hz (Open Loop Vector Control 2), 150% at 0 r/min (Flux Loop Vector Control)
	Speed Control Range	1 : 200 (Open Loop Vector Control 2), 1: 1000 (Flux Loop Vector Control)
	Speed Control Accuracy	±0.2%*9 (Open Loop Vector Control 2 at 25±10°C), ±0.02% (Flux Loop Vector Control at 25±10°C)
	Speed Response	10 Hz (Open Loop Vector Control 2), 40 Hz (Flux Loop Vector Control)
	Torque Limit	Vector Control allows separate settings in four quadrants.
1	Torque Accuracy	±5%
tics	Frequency Control Range	0.01 to 400 Hz
Control Characteristics	Frequency Accuracy (Temperature Fluctuation)	Digital reference: ±0.01%, -10 to +40°C; Analog reference: ±0.1%, 25±10°C
har	Frequency Setting Resolution	Digital reference: 0.01 Hz; Analog reference: 0.03/60 Hz (11 bit signed)
OC	Output Frequency Resolution	0.001 Hz
ntrc	Overload Tolerance	150% of rated output current for 1 min., 200% of rated output current for 0.5 s
8	Frequency Setting Signal	-10 to +10 V, 0 to 10 V, 4 to 20 mA, pulse train
	Accel/Decel Time	0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
	Braking Torque	Approx. 20% (approx. 125% with dynamic braking resistor option), 200/400 V 15 kW or less have an internal braking transistor.
	Main Control Functions	Momentary power loss ride-thru, Speed search, Overtorque detection, Torque limit, 17-step speed (max), Accel/decel time switch, S-curve accel/decel, 3-wire sequence, Auto-Tuning (rotational, stationary), Dwell, Cooling fan on/off switch, Slip compensation, Torque compensation, Frequency jump, Frequency upper/lower limit settings, DC injection braking at start/ stop, High slip braking, PID control (with sleep function), Energy saving control, MEMOBUS communication (RS-485/422 max. 19.2 kbps), Fault restart, Parameter copy, Droop control, Torque control, Speed/torque control switching, Feedforward control, Zero-servo control
Am	bient Temperature	-10 to 50 deg C; derating above 50 to 60 deg C at 2% per 1 deg C
		(12) multi-function digital inputs
		(3) multi-function analog inputs
		(1) multi-function pulse input
St	andard I/O	(2) multi-function relay output
		(4) multi-function photo-coupler outputs
	<i>y</i> -	(2) multi-function 0-10 VDC analog output
		(1) multi-function pulse output

Application Specific Elevator applications L1000A

200 V Class

Mo	odel CIMR-LT2A	0008	0011	0018	0025	0033	0047	0060	0075	0085	0115	0145	0180	0215	0283	0346	0415
Max	Applicable Motor Capacity kW	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110
	Rated Output Capacity kVA	3	4.2	6.7	9.5	12.6	17.9	23	29	32	44	55	69	82	108	132	158
Ħ	Rated Output Current A	8	11	17.5	25	33	47	60	75	85	115	145	180	215	283	346	415
utbi	Overload Tolerance 150% of rated output current for 60 s																
Max. Output Voltage Three-phase 200 to 240 V (proportional to input voltage)																	
	Max. Output Frequency	120 H	lz (use	r adjus	table)												
er	Rated Voltage/Rated Frequency	Three	-phase	200 to	240 V	ac 50/	60 Hz	27	0 to 34	0 Vdc							
OWE	Allowable Voltage Fluctuation	-15 t	o +109	6													
ď	Allowable Frequency Fluctuation	±5%															

Мс	odel CIMR-LT4A	0005	0006	0009	0015	0018	0024	0031	0039	0045	0060	0075	0091	0112	0150	0180	0216
Max	. Applicable Motor Capacity kW	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110
	Rated Output Capacity kVA	3.7	4.2	7	11.3	13.7	18.3	24	30	34	48	57	69	85	114	137	165
=	Rated Output Current A	4.8	5.5	9.2	14.8	18	24	31	39	45	60	75	91	112	150	180	216
Rated Output Current A 4.8 5.5 9.2 14.8 18 24 31 39 45 60 75 91 112 150 180 Overload Tolerance 150% of rated output current for 60 s																	
Ō	Max. Output Voltage	Three	-phase	380 to	480 V	(propo	ortional	to inp	ut volta	ige)							
	Max. Output Frequency	120 H	łz (use	r adjus	table)												
-	Rated Voltage/Rated Frequency	Three	-phase	380 to	480 V	ac 50/	60 Hz	51	0 to 68	0 Vdc							
Power	Allowable Voltage Fluctuation	-15 t	0 +109	6													
ď	Allowable Frequency Fluctuation	±5%															

	mmon Specification	
	Item	Specification
	Control Method	V/f Control, Open Loop Vector Control, Closed Loop Vector Control, Closed Loop Vector Control for PM
	Frequency Control Range	0.01 to 120 Hz
	Frequency Accuracy	Digital reference: within ±0.01% of the max. output frequency (-10 to +40°C)
	(Temperature Fluctuation)	Analog reference: within $\pm 0.1\%$ of the max. output frequency (25 $\pm 10^{\circ}$ C)
	Output Frequency Resolution	0.001 Hz
	Frequency Setting Resolution	Main frequency reference: -10 to $+10$ Vdc $(20 \text{ k}\Omega)$, 0 to $+10$ Vdc $(20 \text{ k}\Omega)$, 4 to 20 mA (250Ω) , 0 to 20 mA (250Ω)
SS		150% / 3 Hz (V/f Control) 200% / 0 r/min (Closed Loop Vector Control)
risti	Starting Torque	200% / 0.3 Hz (Open Loop Vector Control) 200% / 0 r/min (Closed Loop Vector Control for PM)
cte		1:40 (V/f Control) 1:1500 (Closed Loop Vector Control)
Control Characteristics	Speed Control Range	1 : 200 (Open Loop Vector Control) 1 : 1500 (Closed Loop Vector Control for PM)
0	Speed Control Accuracy	±0.2% in Open Loop Vector Control (25±10°C), ±0.02% in Closed Loop Vector Control (25±10°C)
ntro	Speed Response	10 Hz in Open Loop Vector Control (25±10°C), 50 Hz in Closed Loop Vector Control (25±10°C)
ပိ	Speed Response	(excludes temperature fluctuation when performing Rotational Auto-Tuning)
	Torque Limit	All vector control modes allow separate settings in four quadrants
	Accel/Decel Time	0.00 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
	Braking Torque	Approximately 125% when using a braking resistor option
	V/f Characteristics	User-selected programs and V/f preset patterns possible
		Torque compensation at start (with or without sensors), Auto-Tuning (for motor and encoder offset), braking
	Main Control Functions	sequence, Feed Forward, Short Floor, Rescue Operation using back-up power supply, Light Load Direction
		Search, Removable Terminal Block with Parameter Backup
		· UL508C
St	andards Compliant	· IEC/EN61800-3, IEC/EN61800-5-1
		· Two Safe Disable inputs and 1EDM output according to ISO/EN13849-1 Cat. 3 PLd, IEC/EN61508 SIL2
Pr	otective Design	IP00 open-chassis, NEMA Type 1 enclosure
		(8) multi-function digital inputs
		(2) multi-function analog inputs
0	tandard I/O	(4) multi-function relay output
0	tanuaru i/O	(2) multi-function photo-coupler outputs
		(2) multi-function 0-10 VDC analog output
		(2) Hardware baseblock



Power regenerative converter D1000

D1000 Energy-saving Unit

Vol	tage	0,				200 V	Class				I											
	lel CIMR-DA	A:-:-:-:	0005	0010	0020	0030		0005	0000							400 V	Class					
	Applicable Moto		3.7	7.5	15	22	0050 37	0065	0090	0130	0005	0010	0020	0030	0040	0060	0100	0130	0185	0270	0370	0630
		Capacity kW	5	10	20	30	50	55 65	75	110	3.7	7.5	15	22	30	45	75	110	160	220	315	560
ng		Current(DC) A	15	30	61	91	152	197	90	130	5	10	20	30	40	60	100	130	185	270	370	630
Rating		Current(AC) A	15	29	57	83	140	200	270	394	8	15	30	45	61	91	152	197	280	409	561	955
	Rated Out				01	330		200	210	400	8	16	30	43	58	86	145	210	300	410	560	1040
	Rated Voltage/R				200 to	240 V		30 H-									Vdc					
Input	Allowable Volta		-15 to	0 +10%		7 Z 70 V	ac 50/(00 112							380 to	480 V	ac 50/	60 Hz				
	Allowable Freque	ency Fluctuation	±2%																			
ics	Control Me	ethod	Sine-v	vave P	WM co	ntrol																
rist	Input Powe	r Factor	Input	oower	factor o	of 0.99	min (fr	or rated	donera	tion												
acte	Output Voltage	ge Accuracy	±5%					or rates	opera	LIOI1)												
har	Overload F	rotection	Unit st	tops af	ter 60 s	at 150)% of r	ated or	utnut c	urrent	or offer	200+	2000/	-6 1	d outpu							
Control Characterístics	Voltage Refer	ence Range			3	00 to 3	60 Vdc		atput 0	urrent	or arter	3 S at	200%	or rate	015000000000000000000000000000000000000							
ntre	Carrier Fre	quency		6 kl	-			4 kl	Н				6 k	U=	р	UU to /	30 Vdc					
ဝိ	Main Contro	Functions	Current	Limit, Co	ooling Fa	n on/off	Switch, F			nal Block	c with Pa	rameter	Rackun	Function	, MEMO	DUCAA	-11- 0	4 kHz			2 kHz	
	Momentary Overco	urrent Protection	Unit st	ops wh	nen inp	ut curre	ent exc	eeds 2	50%.	100	· marre	admotor	Dackup	1 UNICUO	i, IVIEIVIO	BUS/MO	abus Co	mm. (RS	5-422/RS	3-485 ma	ex, 115.2	kbps)
	Fuse burno	out	Operat	tion sto	ps if th	e fuse	burns	out.														
			Operat	tion sto	ps afte	r 60 s a	at 1509	% of ra	ted out	put cu	rrent											
co.	Overloads		Operat	tion sto	ps afte	r3sat	200%	of rate	ed outp	ut curr	ent											
ion			(electri	cal ope	eration	and reg	generat	ion)	4		OTTE.											
Protection Functions	Overvoltage	Output	Stops v	when D	C bus v	oltage e	exceeds	s appro	x. 410	Vdc		S	tone w	hen DC	bus vo	oltogo		1	- 004			
) Ft	Protection	Input	Stops v	when in	put volt	age exc	eeds a	pprox.	227 Va	0		S	tops w	hen inn	ut volta	onage i	exceed	is appr	ox. 820	J Vdc		
tion	Undervoltage	Output	Stops v	vhen Do	C bus v	oltage fa	alls belo	w appi	rox. 190) Vdc		S	tops w	hen DC	bus vo	oltage t	falls bo	approx	. 554 V	ac		
otec	Protection	Input	Stops v	when in	put volt	age falls	s below	appro	x. 150 \	/ac		S	tops w	hen inn	ut volta	ana fall	s bolow	iow ap	prox. 3	100 Vac		
Prc	Momentary F	ower Loss	Immed	iately s	tops at	ter Mo	mentar	y Powe	er Loss	is det	ected.				at voite	age rail	3 DEIOV	v appro	JX. 300	vac		
	Power Supply Fr	equency Fault	Operat	ion sto	ps for a	deviat	tion of	±6 Hz	or moi	re from	the ra	ted inp	ut frea	uency								
	Heatsink Overhe	at Protection	Protect	tion by	thermi	stor																
	Ground Fault P		Protect																			
	Charge LED)	Charge	LED re	emains	lit until	DC bu	s has t	fallen b	elow a	pprox.	50 V										
	Area of Use		Indoors	3																		
	Ambient Ten		-10 to	+50° C	(IP00/	IP20/0	pen Ty	pe enc	losure)	-10 to	50 de	eg C; d	lerating	above	e 50 to	60 de	C at 2	2% ne	r 1 dec	10		
Environment	Humidity		00/0/11	1 01 100	33 (110 0	Unden	Sallolly										,	-70 00	1 400	, 0		
Onr	Obsert		(2A000	5 to 2A	0050,	4A0005	to 4A	0100)	10 to 21	0 Hz : 9	9.8 m/s	s², 20 to	55 Hz	z:5.9 i	n/s²							
N S	Shock		(ZAUUb	5 to 2A	.0130,	4A0130) to 4A	0370)	10 to 20) Hz : 9	9.8 m/s	s², 20 to	55 Hz	2:2.0	n/s²							
-	Storogo To-		(4AU63)	U) 10 to	20 Hz	: 5.9 n	$1/s^2$, 20) to 55	Hz: 2.	0 m/s2												
-	Storage Tem Altitude	-	-20 to	+60° C	(short-	term te	empera	ture du	uring tra	anspor	tation)											
	ction Design		Up to 1	000 me	eters (d	erating	require	ed at a	Ititudes	from '	1000 m	to 300	00 m)									
	v Standard		P00/IP:																			
Jaiel	y Glanuard	Į.	UL5080	, IEC6	1800-5	-1, IEC	61800	-3														

D1000 Standard Configuration Devices

Voltage					20	0 V										400 V					
Model CIMR-D	DA ACIENTA	0005	0010	0020	0030	0050	0065	0090	0130	0005	0010	0000	0000	0040	0000	400 V					
Harmonic Filter Module	Rated A Current	15	29	57	83	140	200	270	400	8	16	30	43	58	86	145	210	300	0270	0370	0630
Input AC	Rated Current A	15	29	57	83	140	200	270	400	8	16	30	43	58	86	145	210	300	410	560	560
The same of the sa	Inductance mH	2.45	1.27	0.64	0.44	0.26	0.18	0.14	0.09	9.19	4.59	2.45	1.71	1.27	0.85	0.51	0.35	0.25	0.18	0.13	0.13
Input AC Reactor 2	Rated Current A Inductance mH	-	-	-	-	-	-	-	-	-		-	-	-	-	_	-	-	410	560	1140
Reactor for	Rated Current A																		0.06	0.05	0.02
Harmonic Filter	Inductance mH	-	-	-	-	-	-	-	-	-	-	-	-	-/	-	-	_	-	64	87	177
Condenser for	Rated																		0.022	0.0158	0.0079
Harmonic Filter	Capacity µF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290	402	800

Energy-Saving Unit

Power Regenerative Unit R1000

R1000 Energy-saving Unit

Volta	age	37					2	00 V	Clas	S											4	00 V	Clas	S						
-			03P5	0005	0007	0010		0017	9979499	4000000	0035	0053	0073	0105	03P5	0005	0007	0010	0014	0017			0035	000000000000000000000000000000000000000	0053	0073	0105	0150	0210	0300
-	Applicable Motor C		3.7	5.5	7.5	11	-	18.5	22	30	37	55	200000000000000000000000000000000000000	SECULIAR SEC	000000000000000000000000000000000000000	5.5	7.5	11	15	18.5	200000000	30	37	45	55	200000000000000000000000000000000000000	Mark Control	160	200000000	September 1
6	Regeneration (Capacity kW	3.5	5	7	10	14	17	20	28	35	53	-	-	-	5	7	10	14	17	20	28	35	43	53			150	-	_
Rating	Rated Output C	urrent (DC) A	14	20	27	41	55	68	81	112	138	207	282	413	7	11	15	22	30	36	43	58	73	89	109			320	_	
Œ	Rated Input Cu	irrent (AC) A	10	15	20	30	41	50	60	83	102	153	209	306	5	8	11	16	22	27	32	43	54	66	81	110	161	237	326	466
+	Rated Voltage/Rat	ted Frequency				20	0 to 2	240Va	ac 5	0/60	Hz									38	0 to	480V	ac 5	0/60	Hz					
Input	Allowable Voltag	e Fluctuation	- 1	5 to -	+ 109	6																								
	Allowable Frequen	cy Fluctuation	±29	6																										
SS	Control Me	thod	120	° exc	itatio	n me	thod																							
rist	Input Powe	er Factor	0.9	min.	(for r	ated I	oad)																							
Control	Overload P	rotection	30 s	at a	ppro	x. 150	0% c	f rate	d cui	rrent.																				
Colara	Regenerativ		-					ED 6		-	-	-																		
Ö	Main Control					-	-	ch,M	_	_		-	-							.2 kb	ps)									
	Momentary Overcu			eration stops for approx. 250% or higher of the rated power supply current. eration stops if the fuse burns out.																										
	Fuse burno	out	-	-																										
S.	Overloads			praction stops in the fuse burns out. reation stops for 150% of the rated power supply current for 30 s. ps when DC bus voltage exceeds approx, 410 Vdc Stops when DC bus voltage exceeds approx, 820 Vdc																										
Functions	Overvoltage	Output			-		-				1.1.			dc									_					c		
nuc	Protection	Input						ge ex		-	-								-	-					prox.					
	Undervoltage	Output	-					tage																_	w app			-		
Protection	Protection	Input		-				ge fal			-	_	_	-			Sto	os w	nen ir	iput v	/olta	ge fal	lls be	low a	appro	x. 30	0 Va	0		
ote	Momentary P					-		Morr		-					-	1 .														
a.	Power Supply Fre		-					eviation	on of	±6	HZ O	r mor	e troi	m the	rate	d inp	out fre	eque	ncy.											
	Heatsink Overhe Ground Fault P			-	-	therr																								
	Charge LEI							circu until [a la c	6 . 1	lau la				0.17														
	Area of Use		Indo			eman	15 111	untilit	ט טכ	us III	as iai	len b	elow	appr	0x. 5	UV														
	Ambient Ter		-		°C (En	closec	l Wall	Mount	ed (N	EMΔ T	[met]	1 _10	to ±50	00.00	non Ti	me en	closu	o (IDO	0)1 -10) to 50	dog	C. dor	ating a	hovo	50 to 6	en doc	Cat	204 pc	r 1 do	a.C.
ent	Humidity	inperature	-	_				dens			урсту	1 -10	10 +00	0,00	poiling	po on	lolosul	0 (11 0	0)], -10	10 50	ueg	o, dere	aurig a	above	30 10 1	oo deg	Cat	270 pe	a i de	gc
Environment	riamany							03P5			3)10	+0.20) U-7	0.0	m/o2	20	+0 55	U-, ·	50.	0/02										
Ni S	Shock		1000000					0105																						
핍	Storage Ten	nnoroturo								********						201	.0 33	112 -	2.0 11	1/3-										
	Altitude	nperature						rm te								3000) m)													
Prot	ection Desic	n	-					200)	-		-	-						20)7												
-	ety Standard		-	-				-5-1,			-	-	unte	u (INE	LIVIA	туре	I (IP.	20))												
Care	ry otanidard		OLU	,000,	120/	LIVO	000	U 1,	120/1	-1401	000-	U																		

R1000 Standard Configuration Devices

Voltage						2	00 V	Clas	s												400 V	/ Clas	3						
Model CIMR	-RA ACCESSES	03P5	0005	0007	0010	0014	0017	0020	0028	0035	0053	0073	0105	03P5	0005	0007	0010	0014	0017	0020	0028	0035	0043	0053	0073	0105	0150	0210	0300
Power	Rated Current A	20	30	40	60	80	90	120	160	200	280	360	500	10	15	20	30	40	50	60	80	90	120	150	200	250	330	490	660
Power Coordinating Reactor	Inductance mH	0.53	0.35	0.265	0.18	0.13	0.12	0.09	0.07	0.05	0.038	0.026	0.02	2.2	1.42	1.06	0.7	0.53	0.42	0.36	0.26	0.24	0.18	0.15	0.11	0.09	0.06	0.04	0.03
Current	Rated Current A	15	15	20	40	40	50	60	80	100	153	209	306	7.5	7.5	10	15	25	25	30	40	50	60	75	100	161	237	326	466
Suppression Reactor	Inductance mH	0.31	0.31	0.15	0.1	0.1	0.06	0.05	0.04	0.03	0.02	0.015	0.01	1.2	1.2	0.6	0.4	0.3	0.3	0.2	0.15	0.12	0.1	0.08	0.06	0.04	0.03	0.02	0.013
Fuse	Rated Current A	20	25	32	50	63	80	100	125	160	200	350	500	16	16	16	25	40	40	50	63	80	100	125	160	250	350	500	630













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