

HMC- 185a~800a COIL TOTAL ASS'Y Test

Frame		AC/DC	Hz	Voltage		Pick up	Drop out	Real Test Result		Remark
				min	max			Pick up Under 80%	Drop Out (30~60%)	
HMC-130a HMC-150a	24/48V	AC	24V 50Hz	24	50	19.2	7.2~15.6	18.9	15.1	
			24V 60Hz							
		AC	48V 50Hz							
			48V 60Hz							
	FV	DC	24					17.9	11.9	
		DC	48							
		AC	50Hz	100	240	80	30~60	73.1	57.3	
			60Hz					74.3	55.5	
		DC						73.3	43	
HMC-180a HMC-225a	24V	AC	50Hz	24	25	19.2	7.2~14.4	17.5~18.5	11.8	
			60Hz					17.5	11.5	
		DC						17.6	11	
	48V	AC	50Hz	48	50	38.4	14.4~28.8	36	22.5	
			60Hz					36	22.6	
		DC						36.5	20.5	
	FV	AC	50Hz	100	240	80	30~60	77.4	55	
			60Hz					77.4	53.5	
		DC						78.7	45.5	
	300V	AC	60Hz	265	347	212	80~159	198	149	
	400V	AC	60Hz	380	450	304	114~228	279	186	
	500V	AC	60Hz	440	575	352	132~264	344	238	
HMC-265a HMC-330a HMC-400a	DC24V	DC	24	24		19.2	7.2~15.6	17	11.8	
	FV	AC	50Hz	100	240	80	30~60	78	53.3	
			60Hz					78	52	
		DC						79	44	
	300V	AC	60Hz	265	347	212	80~159	198	146	
	400V	AC	60Hz	380	450	304	114~228	280	190	
	500V	AC	60Hz	440	575	352	132~264	350	245	
HMC-500a HMC-630a HMC-800a	100V	AC	50Hz	100	127	80	30~60	75	51	
			60Hz					74	49	
		DC	-					77.5	42.5	
	200V	AC	50Hz	200	240	160	60~120	135	97.5	
			60Hz					135	96	
		DC						150	81.5	
	300V	AC	60Hz	265	347	212	80~159	198	146	
	400V	AC	60Hz	380	450	304	114~228	264	170	
	500V	AC	60Hz	440	575	352	132~264	350	250	

Coil Characteristics for HMC 185a~800a (Real Data)

			Coil current						Operational Time						Coil Consumption[W]		
Frame	Rated Voltage	TEST VOLT	Inrush Current (A)			Holding Current (mA)			Closing(ms)			Opening(ms)			AC50HZ	AC60HZ	DC
			AC50HZ	AC60HZ	DC	AC50HZ	AC60HZ	DC	AC50HZ	AC60HZ	DC	AC50HZ	AC60HZ	DC			
HMC-130a HMC-150a	24/48	24	6.03	5.91	7	390	352	173	49.22	54.81	40.46	16.51	15.71	15.72	3.32	3.33	2.94
		48	4.54	4.33	3.34	142	143	109	37.26	38.86	34.87	17.31	21.3	22.1	4.22	4.32	3.72
	FV	110	1.2	1.2	1.3	41	43	29.8	50.02	50.82	43.34	27.68	25.28	28.98	1.98	2.04	1.94
		220	0.972	0.987	0.854	44	50	29.2	37.26	37.26	35.36	34.86	34.86	36.96	2.63	2.8	2.64
HMC-185a HMC-225a	24V	24	9.53	9.6	7	307	319	143	41	40	38.1	65.3	35	39.9	3.6	3.6	3.5
	48V	48	3.836	3.774	2.71	70	72	39	51.7	45.7	43.8	38.6	40.7	46.8	2.2	2.3	1.9
	FV	110	2.108	2.092	1.532	57	57	36	53.38	52.2	53.3	66.1	64.4	67.8	4.1	4.1	4.3
		220	1.256	1.22	1.34	42	43	22	43.5	41.7	41	67.2	67.6	68.8	6.3	6.2	5.8
	300V	300		1.145			66			35.9			78.8		5.3	5.5	
	400V	400		0.683			73			44.2			66.4				
HMC-265a HMC-330a HMC-400a	FV	500V		0.749			75			38.6			77.8				
		110	4.3	4.33	4.2	443	434	439	47.8	50.3	48.7	57	56	55.8	5.8	5.7	6.3
	300V	220	4.1	4	4.4	329	310	278	42	41	39	57.6	58.3	56.5	6.2	6	6.2
		400		2.8			148			38.3			30.4				
		500		2.6			107			38			29.2				
HMC-500a HMC-630a HMC-800a	DC24V	24V			14.3			450			73			25			10.8
	100V	110	11.2	10.7	18.2	91	91	46	55.2	56	50.5	41	40	41	5.3	5.3	6
	200V	220	5.2	4.9	6.1	68	67	34	56.3	55.7	55.3	38	35.5	37.2	8.3	8.5	8.6
	300V	300															
	400V	400		2.15			78			51			30				
HMC-800a	500V	500		1.7			77			57			34				