



용량선정도표

■ 3ØTR용량에 따른 CT, FUSE, MOF[A]선정표

V KVA	COS&PF FUSE		MOF(A)	CT(A)				
	MAIN	FEEDER		22.9KA	6.6KVA	3.3KVA	440V	380V
100	6	3	5		10	20	150	200
150	8	6	5		15	30	250	300
200	10	8	10	5	20	40	300	400
250	12	10	10	10	25	50	400	500
300	15	10	10	10	30	70	500	600
350	20	12	10	10	30	70	600	600
400	20	12	15	15	40	80	600	750
450	20	15	15	15	50	100	750	800
500	25	20	15	15	50	100	800	1000
550	25	20	15, 20	15	60	120	1000	1000
600	30	25	20	20	60	120	1000	1200
650	30	25	20	20	75	150	1000	1200
700	40	25	20	20	75	150	1000	1500
750	40	30	20, 30	25	75	150	1200	1500
800	40	30	30	25	80	150	1200	1500
850	50	30	30	30	100	200	1500	1500
900	50	30	30	30	100	200	1500	1500
1000	50	40	30	30	100	200	1500	2000
1100	50	40	30, 40	30	120	250	2000	2000
1200	65	50	40	40	150	250	2000	2000
1400	65	50	40	40	150	300		
1500	80	50	40, 50	50	150	300		
1600	80	65	50	50	150	300		
1700	80	65	50	50	200	400		
1800	100	65	50, 75	75	200	400		
1900	100	65	50, 75	75	200	400		
2000	100	80	75	75	200	400		
2300	100	80	75	75	250	500		
2500	140	100	75	75	250	500		
2600	140	100	75, 100	75	300	600		
2900	140	100	75, 100	100	300	600		
3000	140	100	100	100	300	600		

■ 케이블기준[허용전류] F-CV차단기 용량[KA]

포설 조건	허용 전류표			종 류		표준형
심수	1 C	2 C	3C, 4C	30AF	600V	2.5
					415V	5
					220V	10
1.5	22	26	23	50AF	600V	5
					415V	10
					220V	25
2.5	30	36	32	100AF	600V	10
					415V	25
					220V	50
4	42	49	42	225AF	600V	10
					415V	25
					220V	50
6	55	63	54	400AF	600V	22
					415V	35
					220V	50
10	77	86	75	600AF	600V	35
					415V	50
					220V	100
16	105	115	100	800AF	600V	35
					415V	50
					220V	100
25	141	149	127	1000AF	600V	45
					415V	65
					220V	100
35	176	155	158	1200AF	600V	45
					415V	65
					220V	100
50	216	225	192			
70	279	289	246			
95	342	352	298			
120	400	410	346			
150	464	473	399			
185	533	542	456			
240	634	641	538			
300	736	741	621			
400	868	892	745			
500	998					
630	1151					

변압기

전선

특고압저재

맨홀

저압기기 저재

배관저재

용량선정표



용량선정도표

■ 콘덴서 용량 선정표

전동기 출력		콘덴서 용량 (최저)					
		220V (60HZ)		380v (60HZ)		440V (60HZ)	
KW	HP	uF	KVA	uF	KVA	uF	KVA
0.2	1/4	15	0.27				
0.4	1/2	20	0.36				
0.75	1	30	0.55	5	0.27	5	0.36
1		30	0.55	7.5	0.41	5	0.36
1.1		30	0.55	7.5	0.41	5	0.36
1.5	2	50	0.91	10	0.54	7.5	0.55
2		50	0.91	15	0.82	10	0.73
2.2	3	75	1.37	15	0.82	15	0.79
3	4	75	1.37	20	1.09	15	1.09
3.7	5	100	1.82	30	1.63	20	1.46
4		100	1.82	30	1.63	20	1.46
5		150	2.74	40	2.18	30	2.19
5.5	7.5	175	3.19	50	2.72	40	2.92
7.5	10	200	3.65	75	4.08	50	3.65
10		250	4.56	100	5.44	60	4.38
11	15	300	5.47	100	5.44	75	5.47
15	20	400	7.30	100	5.44	80	5.84
19	25	450	8.21	150	8.17	100	7.30
20		500	9.12	150	8.17	100	8.65
22	30	500	9.12	150	8.17	120	8.76
25		600	10.95	180	9.80	150	10.95
30	40	800	14.60	200	10.89	150	10.95
37	50	900	16.42	250	13.61	200	14.60
40		1100	20.07	300	16.33	200	14.60
45	60	1200	21.90	300	16.33	250	18.25
50		1300	23.72	350	19.05	275	20.07
55	75	1400	25.55	400	21.77	300	21.90

■ 농형 유도전동기 Y-D기동

모터출력	kW		5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160
	HP		7.5	10	15	20	25	30	40	50	60	75	100	125	150	180	220
200V~240V 3상 60Hz	모터전부하전류	A	26	34	48	65	79	93	125	148	180	220	300	360	440	528	640
	전자접촉기(MCM)		GMC-22	GMC-32	GMC-40	GMC-50	GMC-50	GMC-65	GMC-85	GMC-100	GMC-125	GMC-150	GMC-180	GMC-220	GMC-300	GMC-400	GMC-400
	정격사용전류(AC3)	A	20	26	35	50	50	65	80	100	125	150	180	220	300	400	400
	과부하계전기(TOR)		GTH-40	GTH-40	GTH-85	GTH-85	GTH-85	GTH-100	GTH-150	GTH-150	GTH-220	GTH-220	GTH-400	GTH-400	GTH-600	GTH-600	GTH-600
	TOR 설정범위	A	18-26	24-36	34-50	54-75	63-85	85-125	100-150	100-150	160-240	160-240	260-400	260-400	400-600	400-600	520-800
	시동용접촉기(MCY)		GMC-22	GMC-22	GMC-32	GMC-32	GMC-40	GMC-40	GMC-50	GMC-65	GMC-65	GMC-85	GMC-100	GMC-125	GMC-150	GMC-220	GMC-220
	운전용접촉기(MCD)		GMC-22	GMC-32	GMC-40	GMC-50	GMC-50	GMC-65	GMC-85	GMC-100	GMC-125	GMC-150	GMC-180	GMC-220	GMC-300	GMC-400	GMC-400
380V~440V 3상 60Hz	배선용차단기(MCCB)		ABS53b	ABS103b	ABS103b	ABS203b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS403b	ABS603b	ABS803b	ABS803b	ABS1003	ABS1203
	정격전류(AT)	A	50	75	100	125	150	175	200	250	300	400	600	700	800	1000	1200
	전선단면적	mm ²	5.5	14	14	22	22	38	38	60	60	100	150	150	200	325	325
	모터전부하전류	A	13	17	24	32.5	39.5	46.5	63	74	90	110	150	180	220	264	320
	전자접촉기(MCM)		GMC-22	GMC-22	GMC-22	GMC-32	GMC-40	GMC-40	GMC-50	GMC-65	GMC-65	GMC-85	GMC-100	GMC-125	GMC-150	GMC-180	GMC-220
	정격사용전류(AC3)	A	20	20	20	25	32	32	48	65	65	80	100	120	150	180	220
	과부하계전기(TOR)		GTH-22	GTH-22	GTH-40	GTH-40	GTH-40	GTH-85	GTH-85	GTH-85	GTH-100	GTH-100	GTH-220	GTH-220	GTH-220	GTH-400	GTH-400
500V~550V 3상 60Hz	TOR 설정범위	A	9-13	12-18	18-26	24-36	28-40	34-50	45-65	63-85	65-100	85-125	120-180	160-240	160-240	200-300	260-400
	시동용접촉기(MCY)		GMC-22	GMC-22	GMC-22	GMC-22	GMC-22	GMC-32	GMC-40	GMC-40	GMC-40	GMC-50	GMC-65	GMC-85	GMC-100	GMC-100	GMC-125
	운전용접촉기(MCD)		GMC-22	GMC-22	GMC-22	GMC-32	GMC-40	GMC-40	GMC-50	GMC-65	GMC-65	GMC-85	GMC-100	GMC-125	GMC-150	GMC-180	GMC-220
	배선용차단기(MCCB)		ABS33b	ABS33b	ABS53b	ABS103b	ABS103b	ABS203b	ABS203b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS403b	ABS603b	ABS603b
	정격전류(AT)	A	30	30	50	75	75	100	125	150	175	200	300	350	400	500	600
	전선단면적	mm ²	5.5	5.5	5.5	14	14	14	22	38	38	38	60	60	100	150	150
	모터전부하전류	A	9.8	12.8	18	24.4	29.6	35	47	56	68	83	113	135	165	198	240
500V~550V 3상 60Hz	전자접촉기(MCM)		GMC-12	GMC-12	GMC-22	GMC-22	GMC-32	GMC-40	GMC-50	GMC-50	GMC-65	GMC-85	GMC-125	GMC-150	GMC-150	GMC-150	GMC-180
	정격사용전류(AC3)	A	9	9	17	17	20	26	38	60	64	75	75	90	140	140	180
	과부하계전기(TOR)		GTH-22	GTH-22	GTH-22	GTH-40	GTH-40	GTH-40	GTH-85	GTH-85	GTH-85	GTH-100	GTH-100	GTH-150	GTH-220	GTH-220	GTH-400
	TOR 설정범위	A	7-10	9-13	16-22	18-26	24-36	24-36	34-50	45-35	54-75	65-100	85-125	100-150	120-180	160-240	200-300
	시동용접촉기(MCY)		GMC-9	GMC-12	GMC-12	GMC-18	GMC-22	GMC-22	GMC-22	GMC-32	GMC-40	GMC-50	GMC-50	GMC-65	GMC-85	GMC-100	GMC-125
	운전용접촉기(MCD)		GMC-12	GMC-12	GMC-22	GMC-22	GMC-32	GMC-40	GMC-50	GMC-50	GMC-65	GMC-85	GMC-85	GMC-125	GMC-150	GMC-150	GMC-180
	배선용차단기(MCCB)		ABS33b	ABS33b	ABS53b	ABS53b	ABS63b	ABS103b	ABS103b	ABS103b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS403b	ABS603b
	정격전류(AT)	A	20	30	40	50	60	75	100	100	150	175	225	250	300	340	500
	전선단면적	mm ²	2	2	5.5	5.5	14	14	22	22	38	38	38	60	100	100	100

■ 농형 유도전동기 직입기동-2

모터출력	kW		11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250
	HP		15	20	25	30	40	50	60	75	100	125	150	180	220	270	340
200V~240V 3상 60Hz	모터전부하전류	A	48	65	79	93	125	148	180	220	300	360	440	528	640	800	1000
	전자개폐기(MSM)		GMS-50	GMS-65	GMS-85	GMS-100	GMS-125	GMS-150	GMS-180	GMS-220	GMS-300	GMS-400	GMS-600	GMS-600	GMS-800	GMS-800	
	정격사용전류(BC 3)	A	50	65	80	100	125	150	180	220	300	400	600	600	800	800	
	조합과부하계전기(TOR)		GTH-85	GTH-85	GTH-85	GTH-100	GTH-150	GTH-150	GTH-220	GTH-220	GTH-400	GTH-400	GTH-600	GTH-600	GTH-600	GTH-600	
	TOR 설정범위	A	34-50	54-75	63-85	65-100	100-150	100-150	120-180	160-240	260-400	260-400	400-600	400-600	520-800	520-800	
	배선용차단기(MCCB)		ABS203b	ABS203b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS603b	ABS603b	ABS803b	ABS803b	ABS1003	ABS1203		
	정격전류(AT)	A	125	150	175	200	225	300	400	500	600	700	800	1000	1200		
	전선단면적	mm ²	22	38	38	60	60	100	100	150	200	200	250	325	325	325	
380V~400V 3상 60Hz	모터전부하전류	A	24	32.5	39.5	46.5	63	74	90	110	150	180	220	264	320	400	500
	전자개폐기(MSM)		GMS-32	GMS-40	GMS-50	GMS-50	GMS-65	GMS-85	GMS-100	GMS-125	GMS-150	GMS-180	GMS-220	GMS-300	GMS-400	GMS-400	GMS-600
	정격사용전류(AC 3)	A	25	32	48	48	65	80	100	120	150	180	220	300	400	400	630
	조합과부하계전기(TOR)		GTH-40	GTH-40	GTH-85	GTH-85	GTH-85	GTH-85	GTH-100	GTH-150	GTH-150	GTH-220	GTH-220	GTH-400	GTH-400	GTH-400	GTH-600
	TOR 설정범위	A	18-26	24-36	34-50	34-50	54-75	63-85	65-100	85-125	100-150	160-240	160-240	200-300	260-400	260-400	400-600
	배선용차단기(MCCB)		ABS63b	ABS103b	ABS103b	ABS203b	ABS203b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS403b	ABS603b	ABS603b	ABS803b	ABS803b
	정격전류(AT)	A	60	100	100	125	125	150	200	225	300	350	400	500	600	700	800
	전선단면적	mm ²	14	14	22	22	38	38	60	60	100	100	150	200	200	200	325
500V~550V 3상 60Hz	모터전부하전류	A	19.2	26	31.6	37.2	50	59	72	88	120	144	176	211	256	320	400
	전자개폐기(MSM)		GMS-32	GMS-40	GMS-50	GMS-50	GMS-65	GMS-75	GMS-85	GMS-125	GMS-150	GMS-180	GMS-180	GMS-300	GMS-300	GMS-400	GMS-600
	정격사용전류(AC 3)	A	20	26	38	38	60	64	75	90	140	180	180	250	250	350	500
	조합과부하계전기(TOR)		GTH-40	GTH-40	GTH-85	GTH-85	GTH-85	GTH-85	GTH-85	GTH-150	GTH-150	GTH-220	GTH-220	GTH-400	GTH-400	GTH-400	GTH-600
	TOR 설정범위	A	16-22	18-26	24-36	28-40	45-65	45-65	63-85	65-100	100-150	100-150	160-240	200-300	200-300	260-400	260-400
	배선용차단기(MCCB)		ABS53b	ABS63b	ABS103b	ABS103b	ABS103b	ABS203b	ABS203b	ABS203b	ABS203b	ABS403b	ABS403b	ABS403b	ABS603b	ABS6403b	ABS803b
	정격전류(AT)	A	50	60	75	100	100	125	150	175	225	300	350	400	500	600	700
	전선단면적	mm ²	14	14	22	22	38	38	60	60	100	100	150	200	200	200	325

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