

Contactors & Overload Relay

Magnetic Contactor

HYUNDAI Magnetic Contactor employs a modular design, which allows quick and simple mounting of auxiliary contact blocks, timers, mechanical latching blocks, etc. HiMC Contactor provides convenience, economic benefit and high reliability.

With highly advanced design for industrial applications such as motor control centers, the HiMC contactor is appropriate for various control systems. It is also favored by shipyards and power plants whose criteria includes high reliability and performance.

Qualified Standard & Approval

Standard

- ▶ IEC 60947
- ▶ EN 60947
- ▶ UL 508
- ▶ BS 47794, BS 5424, BS 4941
- ▶ VDE 0660
- ▶ DNV
- ▶ KS C4504
- ▶ JISC 8328, JEM 1038

Approval

- ▶ ISO 18001, 14001, 9001
- ▶ UL / C-UL
- ▶ CE (Community European / TÜV Rheinland)
- ▶ TSE
- ▶ GOST-R
- ▶ CCC
- ▶ KR, LR, ABS, BV, NK



HiMC22 + HiTH22

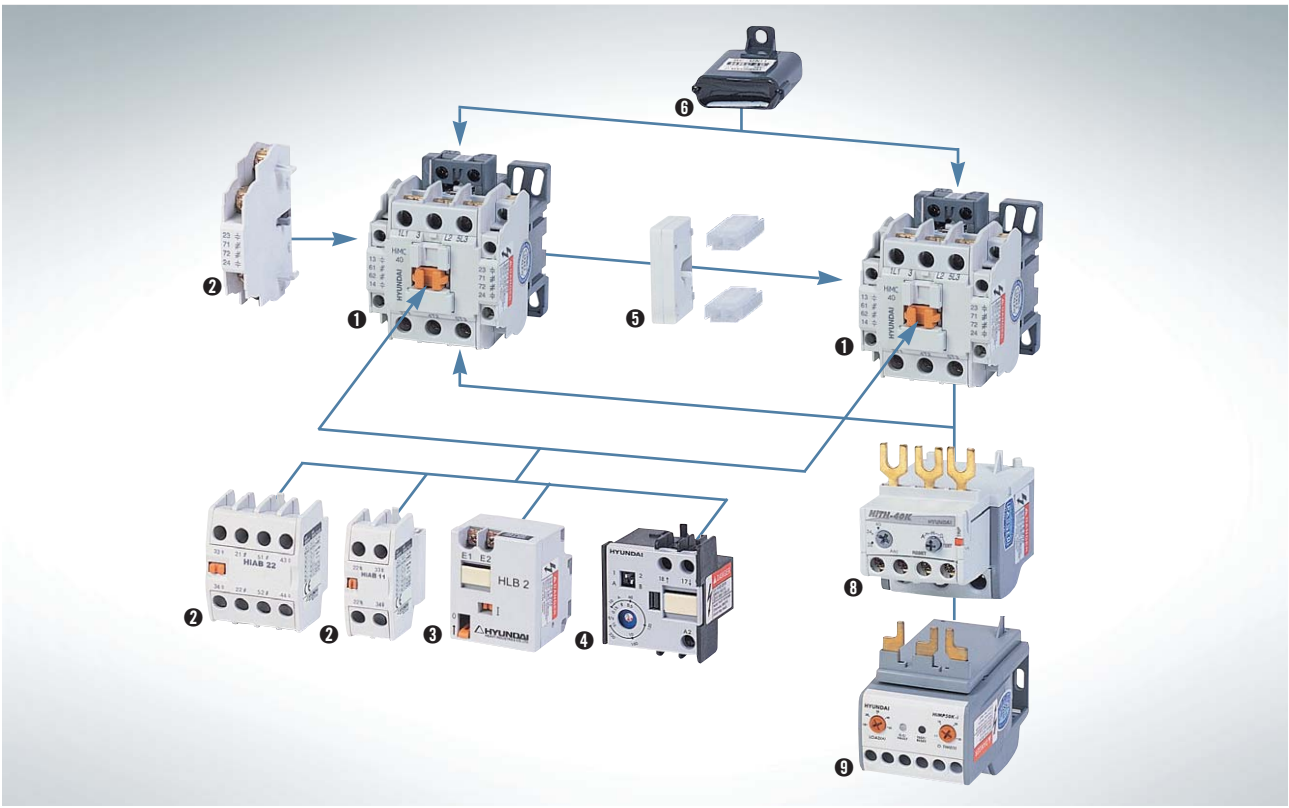
HiMC130

Model	Capacity (AC3, kW/A)					Auxiliary contact	Operation current
	220 - 240V	380 - 440V	500 - 550V	660 - 690V	1,000V		
HiMC9	2.2 / 10	4 / 9	4 / 7	5.5 / 7		1a1b	AC, DC
HiMC12	3.7 / 13	5.5 / 12	7.5 / 12	7.5 / 9		1a1b	AC, DC
HiMC18	4.5 / 18	7.5 / 18	8.5 / 15	7.5 / 9		1a1b	AC, DC
HiMC22	5.5 / 22	11 / 22	15 / 22	15 / 18		1a1b	AC, DC
HiMC32	7.5 / 32	15 / 32	18.5 / 28	18.5 / 22		2a2b	AC, DC
HiMC40	11 / 40	18.5 / 40	22 / 32	22 / 26		2a2b	AC, DC
HiMC50	15 / 50	22 / 50	30 / 45	25 / 31		2a2b ¹⁾	AC, DC
HiMC65	18.5 / 70	30 / 65	37 / 60	37 / 44		2a2b ¹⁾	AC, DC, AC/DC
HiMC80	22 / 80	37 / 80	45 / 64	45 / 52		2a2b ¹⁾	AC, DC, AC/DC
HiMC90	25 / 90	45 / 90	50 / 80	50 / 60		2a2b ¹⁾	AC, DC, AC/DC
HiMC110, HiMC110B ²⁾	30 / 110	55 / 110	60 / 110	55 / 65	65 / 50	2a2b ¹⁾	AC, DC, AC/DC
HiMC130	37 / 130	65 / 130	70 / 120	60 / 70	75 / 54	2a2b ¹⁾	AC, DC, AC/DC
HiMC150, HiMC150B ²⁾	45 / 150	75 / 150	90 / 140	90 / 100	90 / 66	2a2b ¹⁾	AC, DC, AC/DC
HiMC180	55 / 180	90 / 180	110 / 180	110 / 120	110 / 78	2a2b ¹⁾	AC, DC, AC/DC
HiMC220	63 / 220	110 / 220	132 / 200	132 / 150	132 / 96	2a2b ¹⁾	AC, DC, AC/DC
HiMC260, HiMC260B ²⁾	75 / 260	132 / 260	150 / 220	160 / 173	160 / 113	2a2b ¹⁾	AC, DC, AC/DC
HiMC300	90 / 300	160 / 300	160 / 273	200 / 220	200 / 141	2a2b ¹⁾	AC, DC, AC/DC
HiMC400	125 / 400	220 / 400	220 / 350	250 / 300	250 / 178	2a2b ¹⁾	AC, DC, AC/DC
HiMC500	140 / 500	250 / 500	300 / 426	335 / 360	275 / 192	2a2b ¹⁾	AC, DC, AC/DC
HiMC630	190 / 630	330 / 630	330 / 500	400 / 412	300 / 213	2a2b ¹⁾	AC, DC, AC/DC
HiMC800	220 / 800	440 / 800	500 / 720	500 / 630	400 / 284	2a2b ¹⁾	AC, DC, AC/DC

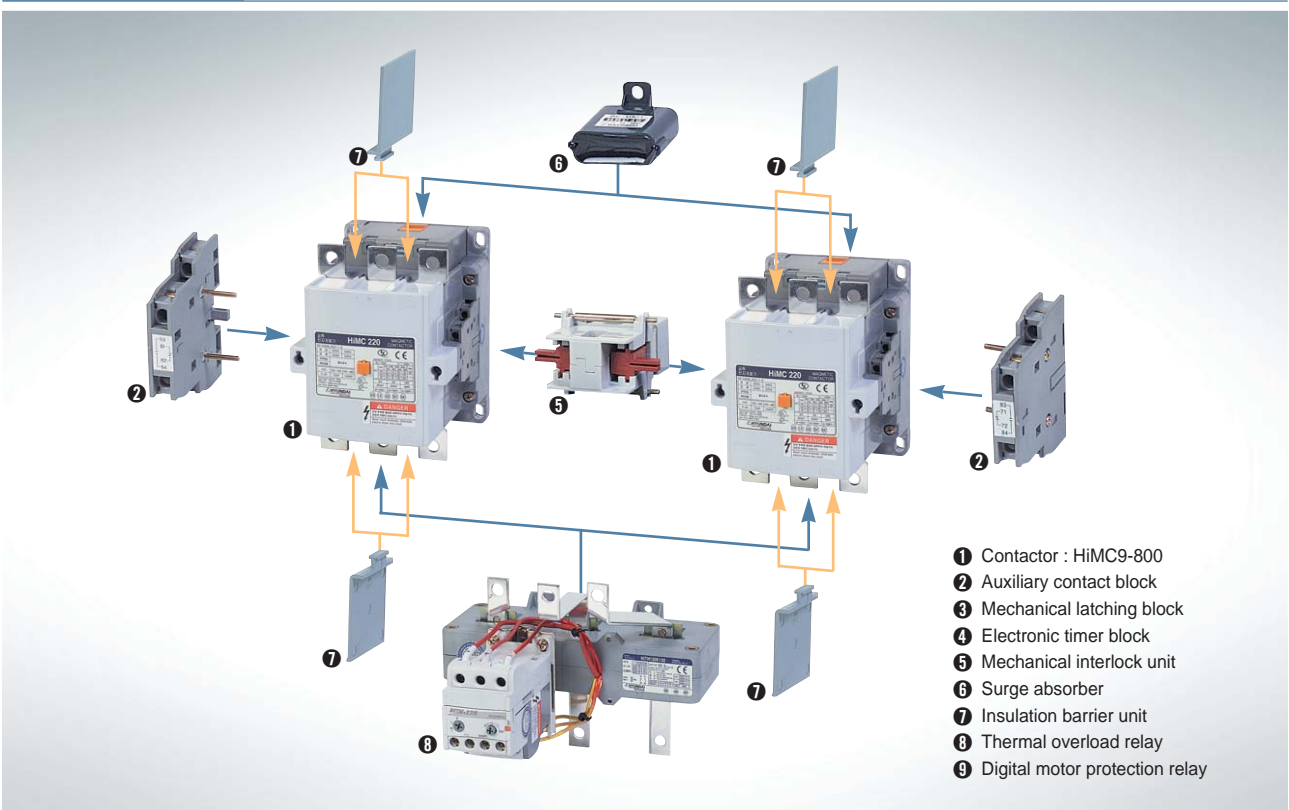
※ 1) The auxiliary contact for DC is 2a1b.

2) HiMC110B, HiMC150B, HiMC260B: Compact type.

HiMC9 - 50



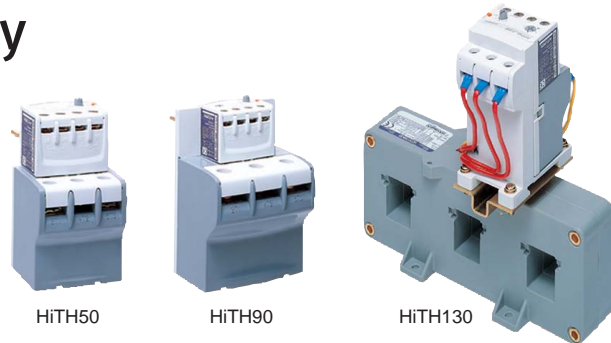
HiMC65 - 800



- ① Contactor : HiMC9-800
- ② Auxiliary contact block
- ③ Mechanical latching block
- ④ Electronic timer block
- ⑤ Mechanical interlock unit
- ⑥ Surge absorber
- ⑦ Insulation barrier unit
- ⑧ Thermal overload relay
- ⑨ Digital motor protection relay

Contactor & Overload Relay

Thermal Overload Relay



Setting range	HiTH22	HiTH40	HiTH50	HiTH90	HiTH130	HiTH220	HiTH300	HiTH500	HiTH800
0.12 – 0.18A									
0.18 – 0.26A									
0.25 – 0.35A									
0.34 – 0.5A									
0.5 – 0.7A									
0.6 – 0.9A									
0.8 – 1.2A									
1.1 – 1.6A									
1.5 – 2.1A									
2 – 3A									
2.8 – 4.2A									
3 – 5A									
4 – 6A									
5.6 – 8A									
7 – 10A									
9 – 13A									
12 – 18A									
16 – 22A									
18 – 26A									
24 – 32A									
28 – 40A									
36 – 50A									
45 – 65A									
60 – 80A									
48 – 80A									
78 – 130A									
108 – 180A									
132 – 220A									
180 – 300A									
240 – 400A									
300 – 500A									
378 – 630A									
480 – 800A									
Applied contactor	HiMC9 HiMC12 HiMC18 HiMC22	HiMC30 HiMC40	HiMC50	HiMC65 HiMC80 HiMC90 HiMC110B	HiMC110 HiMC130 HiMC150B	HiMC150 HiMC180 HiMC220 HiMC260B	HiMC260 HiMC300	HiMC400 HiMC500	HiMC630 HiMC800

CT operated type

Separate Mounting Unit

Model	For use with overload relay	Mounting
HiTHMB22	HiTH22	DIN rail, Screw
HiTHMB40	HiTH40	
HiTHMB50	HiTH50	
HiTHMB90	HiTH90	



Separate mounting unit (HiTHMB)

Digital Motor Protection Relay



Standard Type

Model	Function					Wiring of main circuit			Allowable current partition
	Over current	Phase failure	Phase unbalance	Restriction	Reverse phase	Pin	Screw	Tunnel	
HiMP22K I HiMP40K I HiMP50K I	Inverse	●	●	●		●	●	●	HiMP22: 0.3 – 1.5A, 1 – 5A, 4.4 – 22A HiMP40: 8 – 40A HiMP50: 10 – 50A
HiMP150K I HiMP300K I	Inverse	●	●	●				●	HiMP150: 30 – 150A HiMP300: 60 – 300A
HiMP22K N HiMP40K N HiMP50K N	Inverse/ Reverse	●	●	●	●	●	●	●	HiMP22: 0.3 – 1.5A, 1 – 5A, 4.4 – 22A HiMP40: 8 – 40A HiMP50: 10 – 50A
HiMP150K N HiMP300K N	Inverse/ Reverse	●	●	●	●			●	HiMP150: 30 – 150A HiMP300: 60 – 300A

Deluxe Type

Model	Function							Wiring of main circuit		Allowable current partition	
	Over current	Under current	Phase failure	Phase unbalance	Restriction	Reverse phase	Short circuit	Leakage current	Screw		Tunnel
HiMP60K S	●	●	●	●	●	●			●	●	0.5 – 6A, 5 – 60A
HiMP60K I	●	●	●	●	●	●	●		●	●	
HiMP60K Z	●	●	●	●	●	●		●	●	●	

Control Relay

Model	Auxiliary contact	Operation current
HMX22	2a2b	AC
HMX31	3a1b	
HMX40	4a	
HMT22	2a2b	DC
HMT31	3a1b	
HMT40	4a	



HMT & HMX

Contactors & Overload Relay



Capacitor Switching Contactor

Model (AC operation)	Rating of 3-phase capacitor 50-60Hz (at ambient temperature 55 °C)						Composed devices			Dimension
	Max. power						Contactor	Capacitor switching unit		External size
	AC-6b							(AC operation)	Auxiliary	
	200V	230V	400V	440V	500V	690V	Model		NO	NC
kVAR	kVAR	kVAR	kVAR	kVAR	kVAR	(53-54)			(51-52)	
HiMK9 21	5	5	9.7	9.7	14	14	HiMC9	HiAD50 10	1	44 x 166 x 123
HiMK9 12								HiAD50 01	1	
HiMK12 21	6.7	6.7	12.5	12.5	18	18	HiMC12	HiAD50 10	1	
HiMK12 12								HiAD50 01	1	
HiMK18 21	8.5	8.5	16.7	16.7	24	24	HiMC18	HiAD50 10	1	
HiMK18 12								HiAD50 01	1	
HiMK22 21	10	10	18	18	26	26	HiMC22	HiAD50 10	1	63 x 166 x 123
HiMK22 12								HiAD50 01	1	
HiMK32 32	14	16	27.5	30	34	45	HiMC32	HiAD50 10	1	
HiMK32 23								HiAD50 01	1	
HiMK40 32	20	20	30	33.3	48	48	HiMC40	HiAD50 10	1	
HiMK40 23								HiAD50 01	1	
HiMK50 32	21	24	40	45	50	65	HiMC50	HiAD50 10	1	70 x 178 x 136
HiMK50 23								HiAD50 01	1	

Auxiliary Contact Block

Model	Contact	Mounting	Application	
HiAB22	2NO + 2NC	Top side	HiMC9 - 50	
HiAB13	1NO + 3NC	Top side		
HiAB31	3NO + 1NC	Top side		
HiAB04	0NO + 4NC	Top side		
HiAB40	4NO + 0NC	Top side		
HiAB11	1NO + 1NC	Top side		
HiAB02	0NO + 2NC	Top side		
HiAB20	2NO + 0NC	Top side		
HiAL11 ¹⁾	1NO + 1NC	Left side		HiMC9 - 22
HiAC22	2NO + 2NC	Top side		HMX HMT
HiAC13	1NO + 3NC	Top side		
HiAC31	3NO + 1NC	Top side		
HiAC40	4NO + 0NC	Top side		
HiAC11	1NO + 1NC	Top side		
HiAC02	0NO + 2NC	Top side		
HiAC20	2NO + 0NC	Top side		
HiAL5	1NO + 1NC	Left side	HiMC65, 80, 90, 110B - 150B	
HiAR6	1NO + 1NC	Right side		
HiAL7	1NO + 1NC	Left side	HiMC150 - 800	
HiAR8	1NO + 1NC	Right side		

※ 1) The side mounting auxiliary contact block shall not be used with the top mounting auxiliary contact block at the same time.

Electronic Timer

Model	Control voltage	Delay time
HOKZE1	AC / DC90 – 240V	0.15 – 220sec
HOKZE2	AC / DC24 – 60V	0.15 – 220sec



HOKZE

Mechanical Latching Block

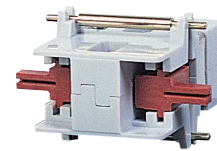
Model	Control voltage
HLB2	AC24, 48, 110, 220, 440V / DC24, 48, 110, 220V



HLB2

Mechanical Interlock Unit

Model	Applied contactors
HiTL40	HiMC9 – 40
HiTL50	HiMC50
HiTL130	HiMC65 – 130, 150B
HiTL220	HiMC150 – 220, 260B
HiTL300	HiMC260 – 300
HiTL800	HiMC400 – 800



HiTL220

Surge Absorber

Model	Control voltage	Application
HRC40	AC28 – 48V	HMX HiMC9 – 40
HRC40	AC110 – 220V	
HRC40	AC240 – 380V	
HRC90	AC28 – 48V	HiMC50 – 110B
HRC90	AC110 – 220V	
HRC90	AC240 – 380V	
HRC300	AC28 – 48V	HiMC110 – 300
HRC300	AC110 – 220V	
HRC300	AC240 – 380V	
HOKYZX38	DC	HMT, HiMC9 – 50



HRC

