

MAGNETIC STARTERS AND CONTACTORS

RATINGS AND SPECIFICATIONS

Standard Models (H8C,H10C,H11,H12,H20,H25,H35)

Item		Frame	8C	10C	10B	11	12	20	25	35	
Type	Electromagnetic contactor without enclosure	Non-reversible	H8C	H10C	-	H11	H12	H20	H25	H35	
		Reversible	-	-	H10-BR	H11-R	H12-R	H20-R	H25-R	H35-R	
	Electromagnetic starter	Without enclosure	Non-reversible	H8C-T	H10C-T	-	H11-T	H12-T	H20-T	H25-T	H35-T
			Reversible	-	-	H10B-RT	H11-RT	H12-RT	H20-RT	H25-RT	H35-RT
		Without enclosure	Non-reversible	SH8C-T	SH10C-T	-	SH11-T	-	SH20-T	SH25-T	SH35-T
			Reversible	-	-	SH10B-RT	SH11-RT	-	SH20-RT	SH25-RT	SH35-RT
Thermal overload relay			TR2B-1E					TR20B-1E	TR25B-1E	TR50B-1E	
Rated Insulation Voltage			AC 600V								
Max. rated capacity of motor	JIS and JEM	Rated operational current (A) AC3	200~220V	11	12	12	12	20(18)	26	35	
			380~440V	6	9	9	9	17	24	32	
			500~550V	5	8	6	8	12	12	26	
		Three-phase motor (kW) AC3 and AC2	200~220V	2.2	2.5	2.5	2.5	4(3.7)	5.5	7.5	
			380~440V	2.2	4	4	4	7.5	11	15	
			500~550V	2.2	4	3.7	4	7.5	7.5	15	
	IEC 60947-4-1	Rated operational current (A) AC3	200~240V	11	12	12	12	22(20)	27	39	
			380~440V	7	9	9	9	22(20)	24	37	
			500~550V	5	8	6	8	12	12	26	
		Three-phase motor (kW) AC3	220~240V	2.5	3	3	3	5.5	*7.5	11	
			380~440V	3	4	4	4	11	11	18.5	
			500~550V	3	4	3.7	4	7.5	7.5	15	
	Single-phase motor (kw) AC3		100~110V	0.4	0.4	-	0.4	0.75	-	-	
	JIS, JEM and IEC		200~220V	0.75	0.75	-	0.75	-	-	-	
Inching (kw) AC4 (Inching ratio 50%, electrical life 0.1 million times) JIS,JEM and IEC	200~240V	0.75	1.5	1.5	1.5	2.2	3.7	5.5			
	380~440V	1.5	2.2	2.2	2.2	3.7	5.5	7.5			
Rated capacity for resistance load (A) AC1 (Electrical life 0.5 million times) JIS,JEM and IEC		200~240V	20	20	18	20	32	35	50		
		380~440V	20	20	18	20	32	35	50		
Rated thermal current (I th) A		Without enclosure	20	20	18	20	32	35	50		
		With enclosure	15	15	15	15	26	35	44		
Characteristics of operation coil	Coil burden (max.) (V.A) 50/60 Hz		Pick-up	45/40		45/40		45/40		90/80	165/150
			Hold-in	9/7		9/7		9/7		14/11	16/12
	Coil consumption (W) (Mean)			2.4		2.4		2.4		3.5	4.5
	Pick-up voltage (% of rated voltage) (Mean)			65		75		68	75	68	73
	Drop-out voltage (% of rated voltage) (Mean)			50		50		50	50	53	53
	Operating time (ms) (reference value)		Pick-up	10~15		10~15		10~15		10~20	10~20
		Drop-out	10~30		10~30		10~30		10~35	10~25	
Auxiliary contact specification	Number		Standard	1NO or 1NC		(2NO1NC)	1NO1NC or 2NO,2NC	2NO1NC or 1NO2NC	1NO1NC	2NO2NC	
			Maximum			x2	4NO4NC (3NO3NC...Reversible)				
	Rated operational current (A)		200~240V	2 (Twin contact)							
			380~440V	1 (Twin contact)							
Rated thermal current (A)			10 (Twin contact)								
Application	With mechanical interlock		-	-	⊙	-	-	⊙	⊙	⊙	
	With 2E thermal overload relay		⊙	⊙	⊙	⊙	-	⊙	⊙	⊙	
	With three-element thermal overload relay		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
	With latch		-	⊙(H10-L)	-	⊙	-	⊙	⊙	⊙	
	DC operation		-	⊙(H10-G)	-	⊙	-	⊙	⊙	⊙	
	DIN rail mounting		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	



H8C,H10C



H20T



H25



H35



H35-T



H50