

Three Pole Contactors

Model Designation

$$\frac{C}{1} - \frac{12D}{2} \frac{10G}{3} \frac{7}{4}$$

1.Series

C
C2
S
SMC

2.Type

C 、 C2	06D 09D 11D 12D 18D 25D 35D 45D 55D 65D 80D 100D
	09DC 11DC 12DC 18DC 25DC 35DC 45DC 55DC 65DC 80DC 100DC
S	C11 C12 C16 C21 C35 C50 C60 C65 C80 C100 C125 C150 C220
SMC	09 12 18 22 32 40 50 65 75 85

3.Auxiliary Contacts

10	1a	01	1b
11	1a1b	22	2a2b

4.Coil Control Voltage

Coil for C-06D to C-100D (AC)																		
24V	42V	48V	110V	120V	190V	220V	230V	240V	380V	400V	415V	440V	480V	525V	575V	600V		
A7	B7	C7	D7	E7	F7	G7	H7	I7	J7	K7	L7	M7	N7	O7	P7	Q7		
200V	460V	115V	208V	550V	30V													
R7	S7	T7	U7	V7	X7													
Coil for C-09DC to C-100DC (DC)																		
24V	42V	48V	110V	120V						220V								
AD	BD	CD	DD	ED						GD								
Coil for S-C11 to S-C220 (AC)																		
24V	42V	48V	110V	120V						220V	230V	240V	380V			415V	440V	525V
A5	B5	C5	D5	E5						G5	H5	I5	J5			L5	M5	O5
A6	B6	C6	D6	E6						G6	H6	I6	J6			L6	M6	O6
										G7								
Coil for SMC-09 to SMC-85 (AC)																		
24V	42V	48V	110V	220V	240V	380V	415V	440V	575V									
A7	B7	C7	D5	G5	I5	J5	L5	M5	P5									
			D6	G6	I6	J6	L6	M6	P6									
A~V for Voltage : 5 for 50Hz ; 6 for 60Hz ; 7 for 50/60Hz																		

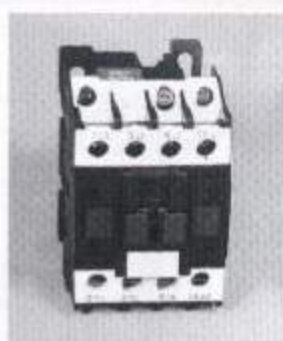
Three Pole Contactors

"C"- Series 9A to 110A(AC3)

CONTROL CIRCUIT : AC



C-06D10



C-12D10



C-18D10



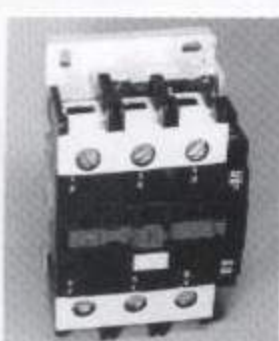
C-25D10



C-35D10



C-45D11



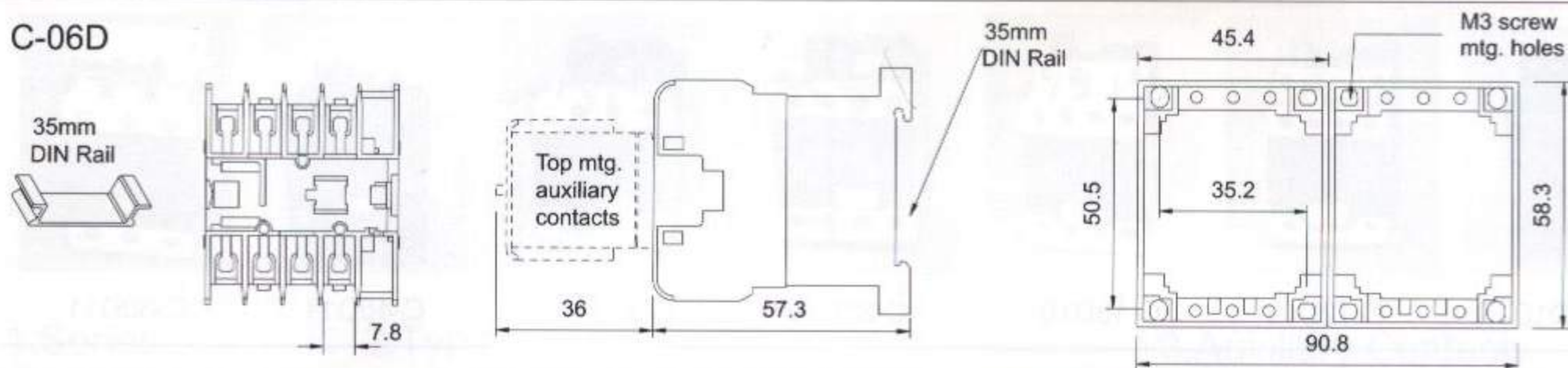
C-80D11

Model Name	Instantaneous auxiliary contacts		Rated Insulation voltage Ui	AC1 duty $\theta \leq 40^{\circ}\text{C}$ Ith	le	AC3 duty 3 phase				AC3 duty 1 phase		Weight Kg	Approval
	N/O	N/C				KW HP	KW HP	KW HP	KW HP	120V	230V		
C-06D10 C-06D01	1 -	- 1	1000V	16A	9A	2.2 3	3.7 5	3.7 5	3.7 5	0.2 0.33	1.1 1.5	0.177	CE
C-09D10 C-09D01	1 -	- 1	1000V	20A	9A	2.2 3	3.7 5	3.7 5	3.7 5	0.37 0.75	1.5 2	0.350	SP US CE UL LISTED
C-11D10 C-11D01	1 -	- 1	1000V	25A	12A	3 4	5.5 7.5	5.5 7.5	5.5 7.5	0.55 0.75	1.5 2	0.350	SP US CE UL LISTED
C-12D10 C-12D01	1 -	- 1	1000V	25A	16A	4 5.5	7.5 10	7.5 10	7.5 10	0.75 1	2.2 3	0.350	SP US CE UL LISTED CCC A004239
C-18D10 C-18D01	1 -	- 1	1000V	32A	22A	5.5 7.5	11 15	11 15	11 15	1.5 2	3.7 5	0.380	SP US CE UL LISTED CCC A004239
C-25D10 C-25D01	1 -	- 1	1000V	40A	32A	7.5 10	15 20	15 20	15 20	2.2 3	4 5.5	0.525	SP US CE CCC A004239
C-35D10 C-35D01	1 -	- 1	1000V	50A	42A	11 15	19 25	19 25	19 25	3 4	5.5 7.5	0.550	SP US CE CCC A004239
C-45D11	1	1	1000V	60A	55A	15 20	30 40	30 40	30 40			1.100	CE
C-55D11	1	1	1000V	80A	65A	19 25	33 45	33 45	33 45			1.100	CE
C-65D11	1	1	1000V	90A	80A	22 30	37 50	37 50	37 50			1.100	CE CCC A004239
C-80D11	1	1	1000V	125A	105A	25 35	45 60	55 75	55 75			1.430	CE
C-100D11	1	1	1000V	130A	110A	30 40	55 75	55 75	60 80			1.430	CE CCC A004239

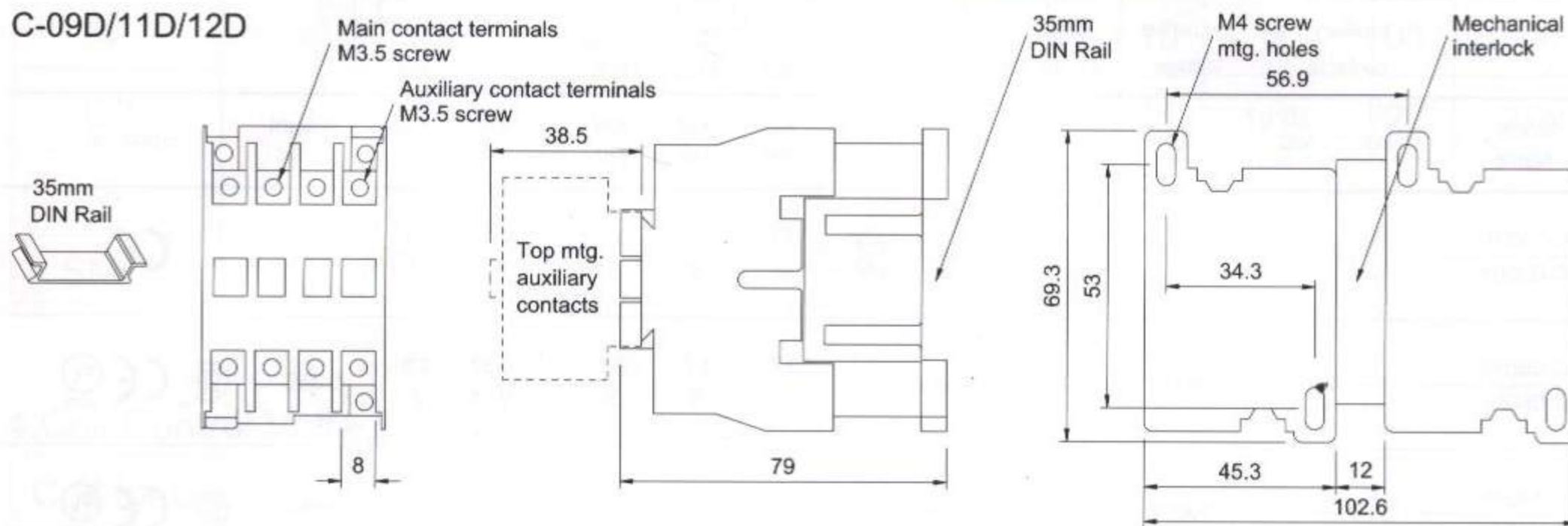
"C"-Series Contactors

Dimensions(mm)

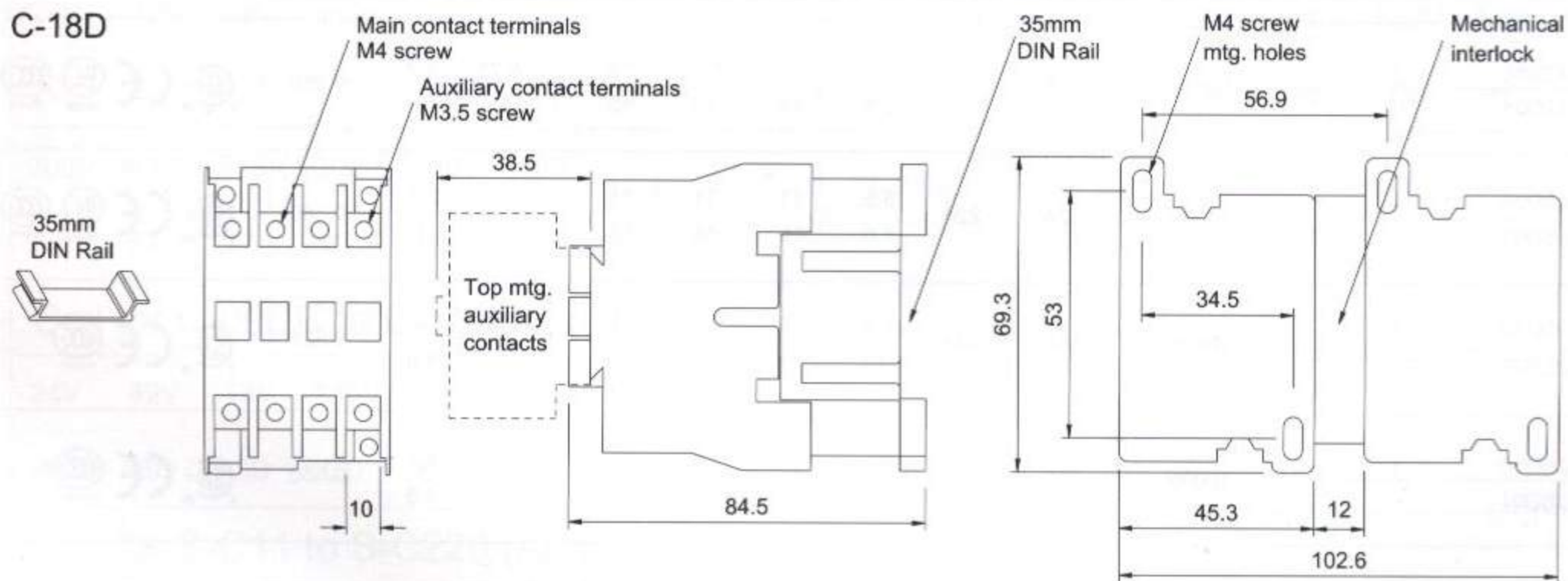
C-06D



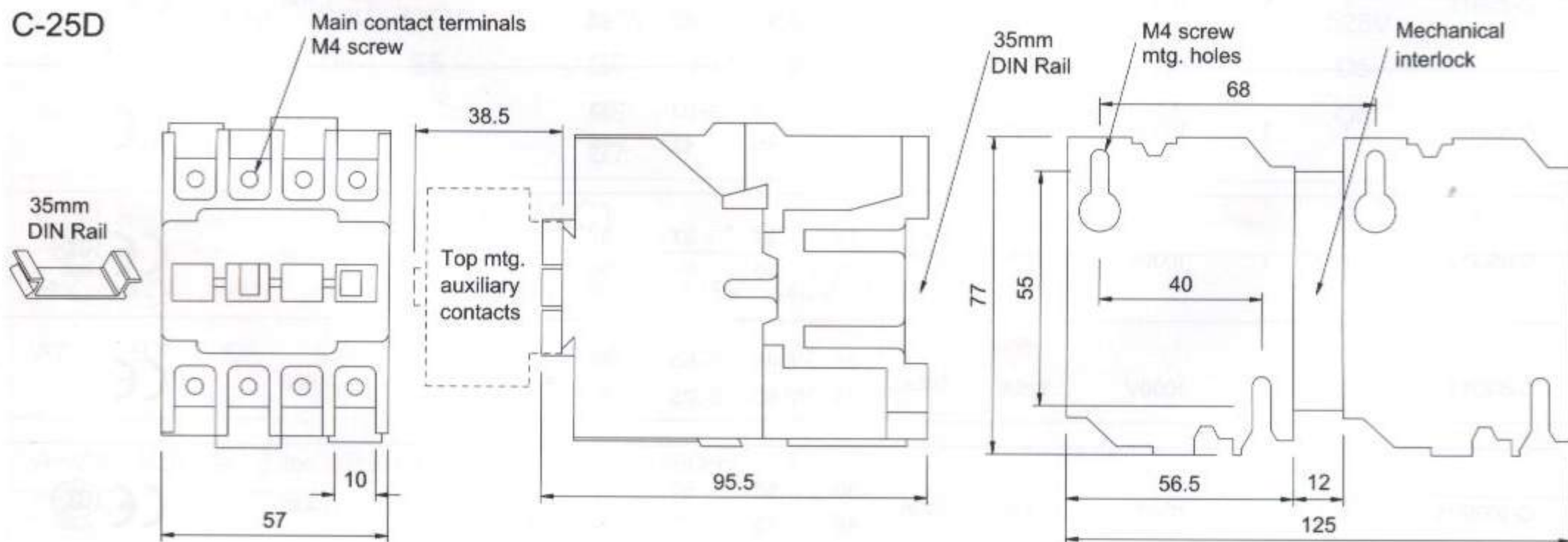
C-09D/11D/12D



C-18D



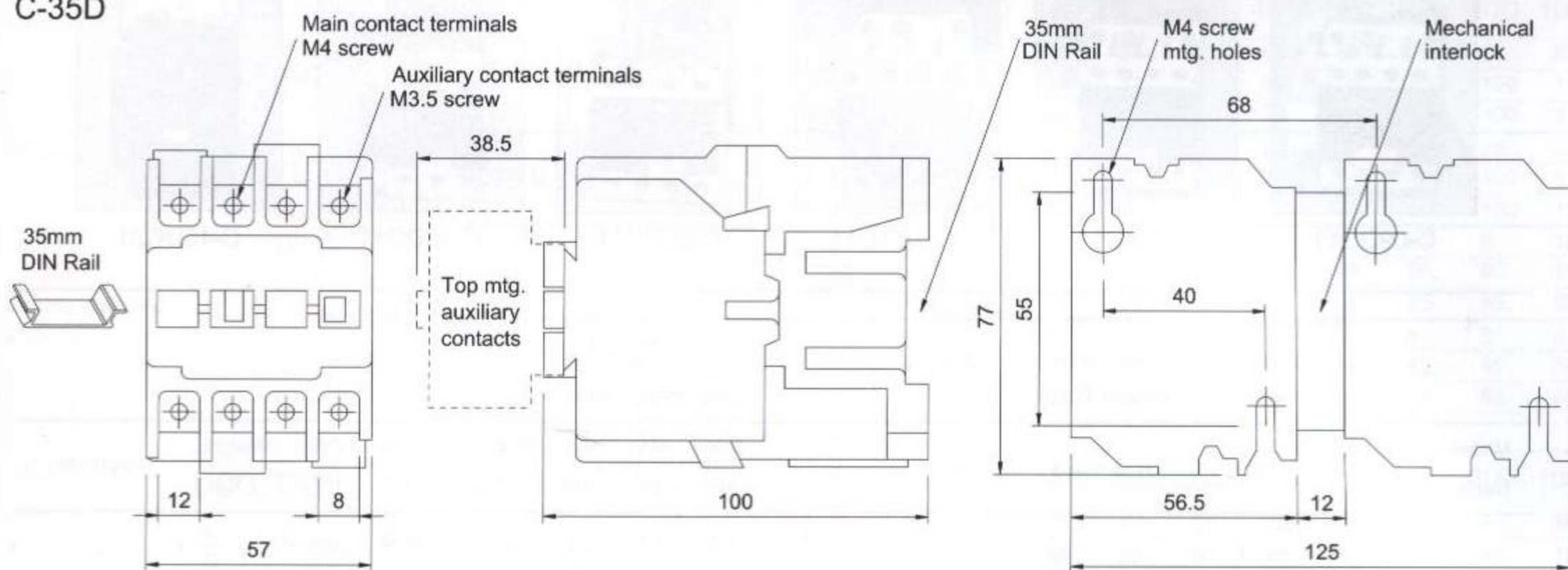
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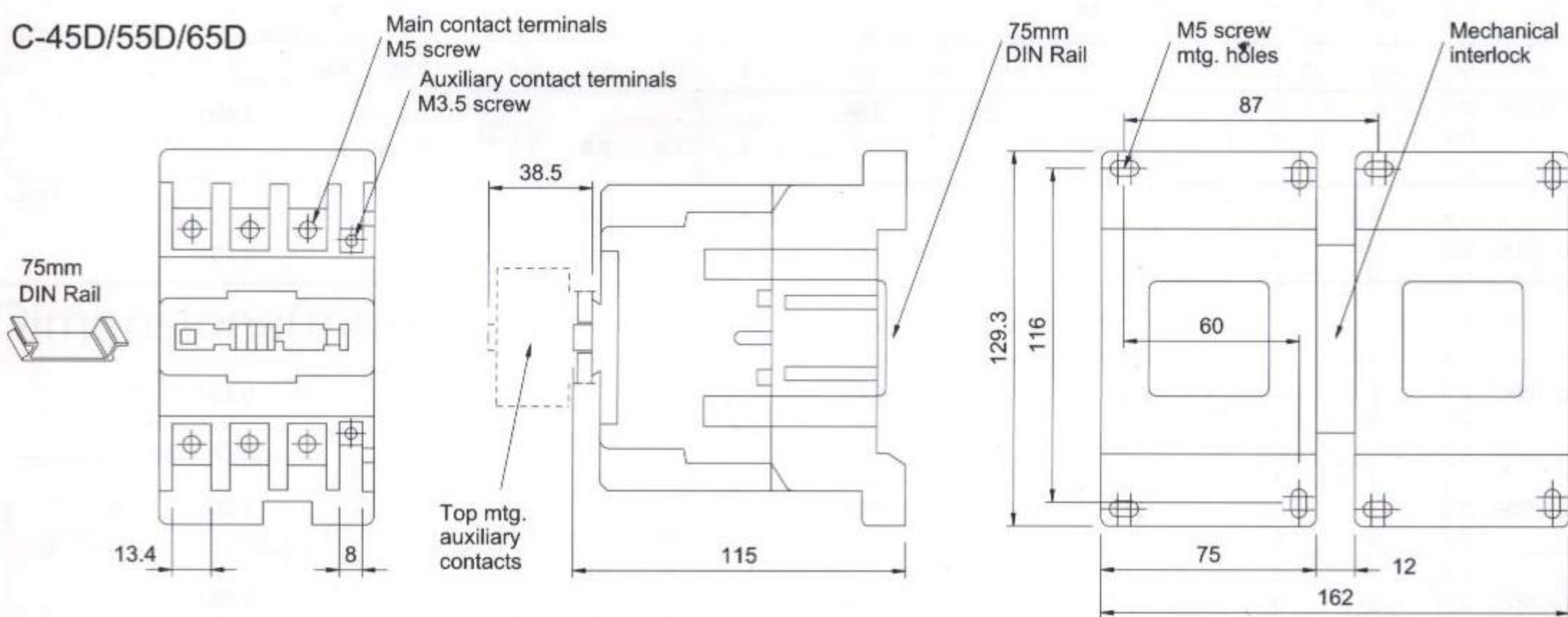
"C"-Series Contactors

Dimensions(mm)

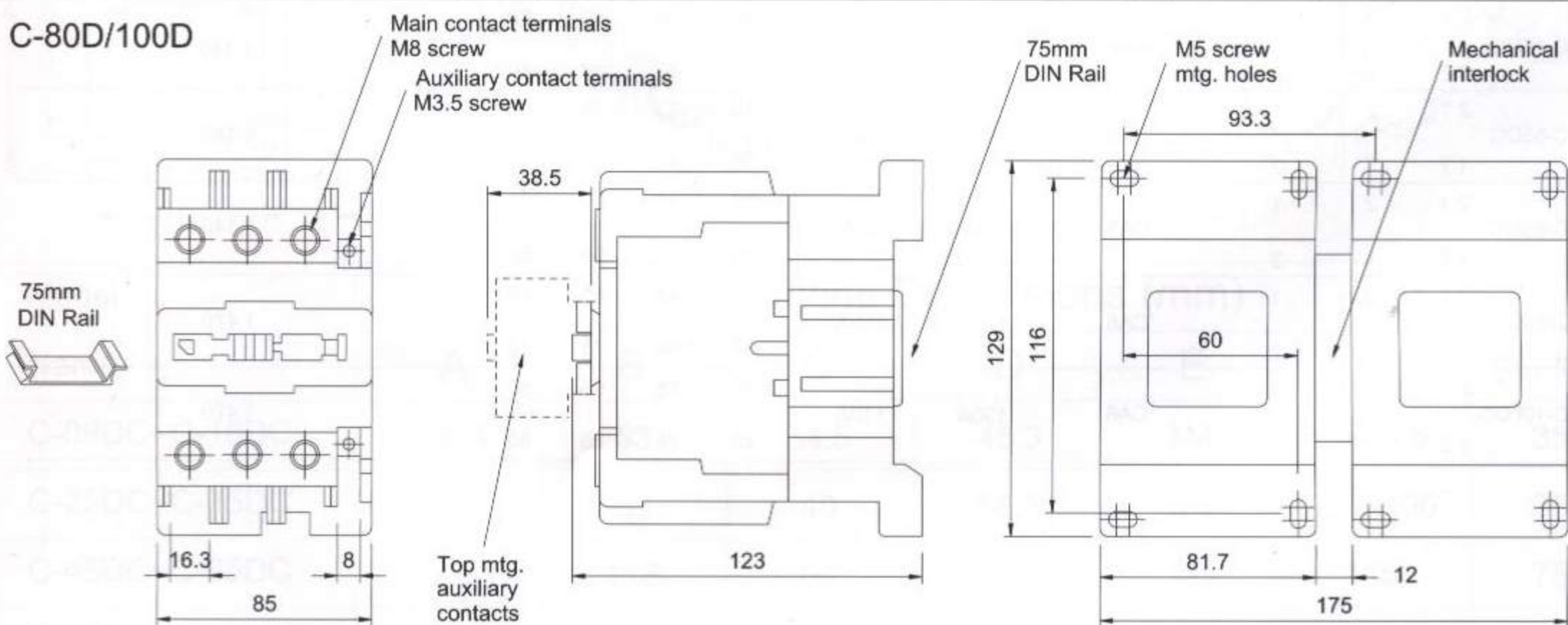
C-35D



C-45D/55D/65D



C-80D/100D



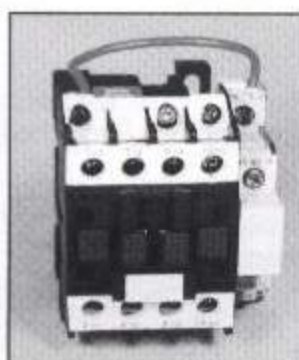
Three Pole Contactors

"C"- Series 9A to 110A(AC3)

CONTROL CIRCUIT : DC



C-09DC11



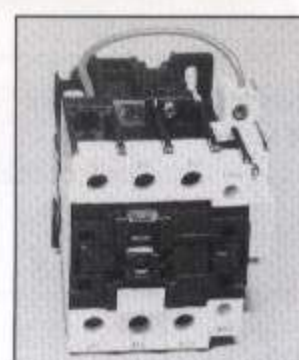
C-12DC11



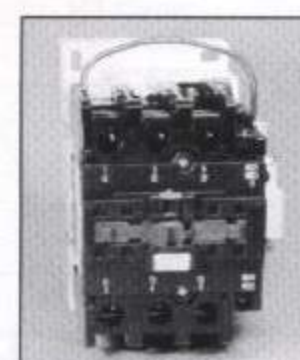
C-18DC11



C-25DC11



C-35DC11

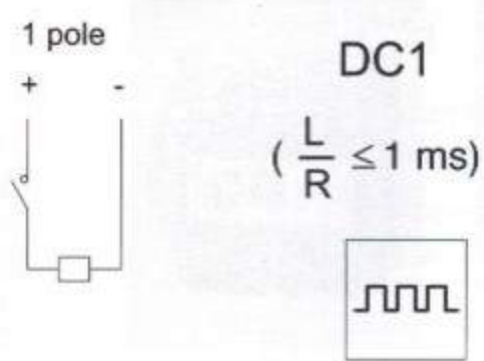


C-45DC21

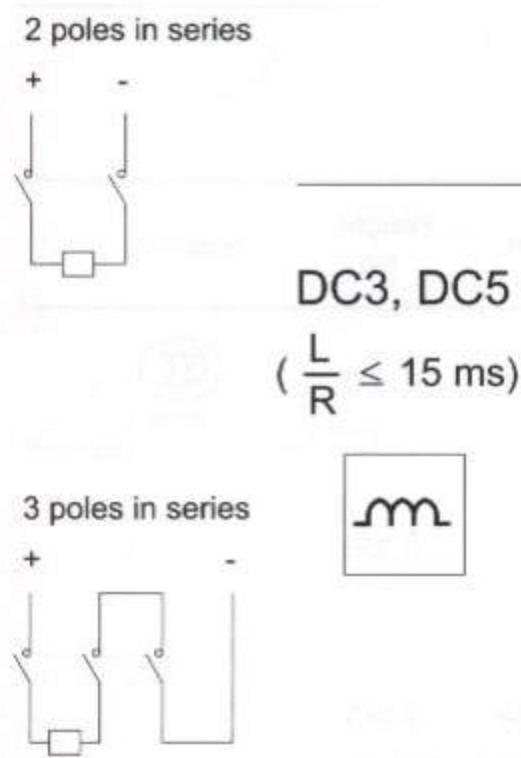
Model Name	Instantaneous Auxiliary Contacts		Side.mtg. Auxiliary Contacts Blocks	AC1 duty $\theta \leq 40^{\circ}\text{C}$	Ith	Ie	AC3 duty 3 phase				AC3 duty 1 phase		Weight Kg	Approval				
	N/O	N/C					220V	380V	440V	575V	120V	230V						
							KW HP	KW HP	KW HP	KW HP	KW HP	KW HP						
C-09DC	1 1	1	1	CA8	20A	9A	2.2	3.7	3.7	3.7	0.37	1.5	0.400					
	2 0	2	0															
	0 2	0	2				3	5	5	5	0.75	2						
C-11DC	1 1	1	1	CA8	25A	12A	3	5.5	5.5	5.5	0.55	1.5	0.400					
	2 0	2	0															
	0 2	0	2				4	7.5	7.5	7.5	0.75	2						
C-12DC	1 1	1	1	CA8	25A	16A	4	7.5	7.5	7.5	0.75	2.2	0.400					
	2 0	2	0															
	0 2	0	2				5.5	10	10	10	1	3						
C-18DC	1 1	1	1	CA8	32A	22A	5.5	10	10	10	1.5	3.7	0.430					
	2 0	2	0															
	0 2	0	2				7.5	15	15	15	2	5						
C-25DC	1 1	1	1	CA8	40A	32A	7.5	15	15	15	2.2	4	0.565					
	2 0	2	0															
	0 2	0	2				10	20	20	20	3	5.5						
C-35DC	1 1	1	1	CA8	50A	42A	11	19	19	19			0.590					
	2 0	2	0															
	0.2	0	2				15	25	25	25								
C-45DC	2 1	2	1	CA8	60A	55A	15	30	30	30			1.140					
	1 2	1	2				20	40	40	40								
C-55DC	2 1	2	1	CA8	80A	65A	19	33	33	33			1.140					
	1 2	1	2				25	45	45	45								
C-65DC	2 1	2	1	CA8	90A	80A	22	37	37	37			1.140					
	1 2	1	2				20	50	50	50								
C-80DC	2 1	2	1	CA8	125A	105A	25	45	55	55			1.470					
	1 2	1	2				35	60	75	75								
C-100DC	2 1	2	1	CA8	130A	110A	30	55	55	60			1.470					
	1 2	1	2				40	75	75	80								

"DC"-Series Contactors

According to the category of utilization for DC operation

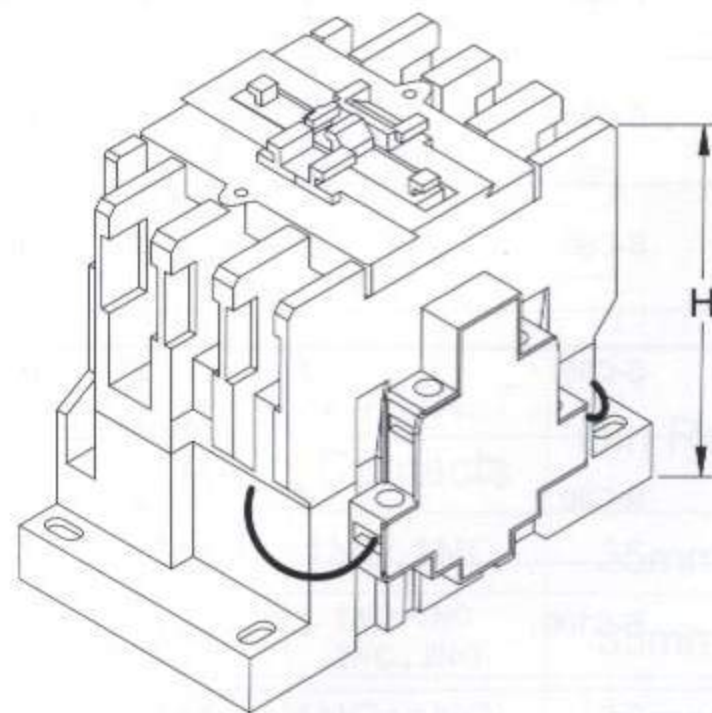
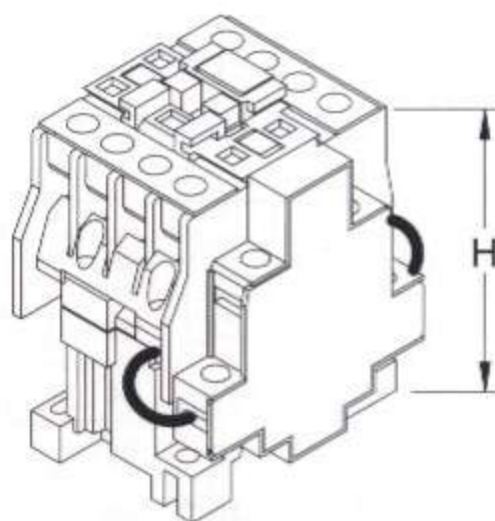
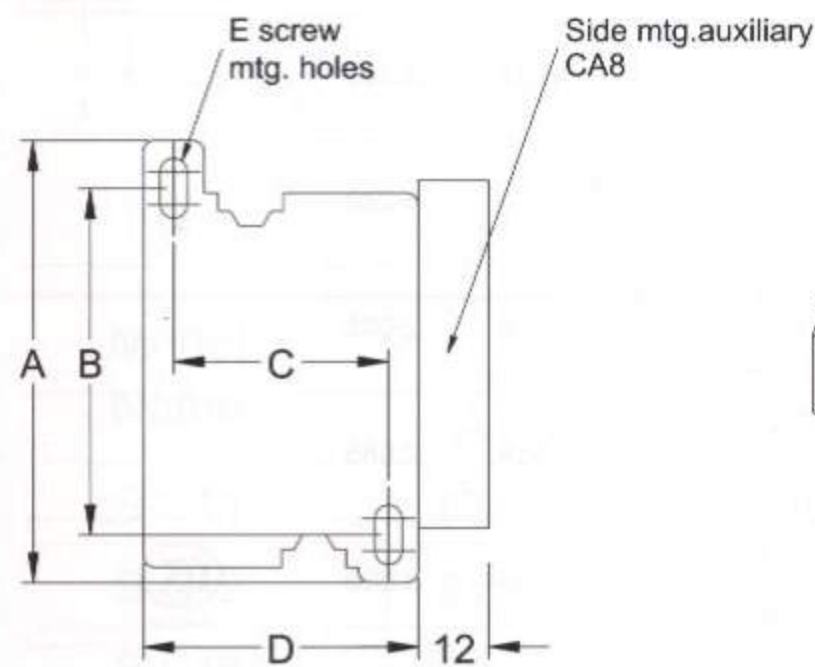


Maximum operational current Ie in amps													
Voltage Ue	Number of poles to be connected in series	09D	11D	12D	18D	25D	35D	45D	55D	65D	80D	100D	
24 V	1	12	15	15	30	30	40	50	50	70	70	80	
	2	16	18	18	32	32	55	70	70	100	100	110	
	3	18	20	20	32	32	55	70	70	100	100	110	
48/75 V	1	10	12	12	25	25	25	25	25	25	25	30	
	2	15	17	17	30	30	55	70	70	100	100	110	
	3	18	20	20	32	32	55	70	70	100	100	110	
125 V	1	5	6	8	8	8	8	8	8	8	8	10	
	2	10	12	12	25	25	40	50	60	80	80	85	
	3	12	15	15	27	27	45	60	65	85	85	90	
225 V	1	3	4	5	5	5	5	5	5	5	5	6	
	2	6	8	8	15	15	35	40	40	45	45	50	
	3	8	10	10	22	22	40	50	50	55	55	60	



Maximum operational current Ie in amps													
Voltage Ue	Number of poles to be connected in series	09D	11D	12D	18D	25D	35D	45D	55D	65D	80D	100D	
24 V	1	10	12	12	20	20	25	35	35	40	40	45	
	2	12	15	15	25	25	30	45	45	60	60	70	
	3	15	18	18	30	30	45	55	55	80	80	90	
48/75 V	1	8	10	10	15	15	15	15	15	15	15	20	
	2	10	12	12	20	20	25	40	40	50	50	55	
	3	12	15	15	30	30	40	50	50	70	70	75	
125 V	1	1.5	2	2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	
	2	6	8	8	15	15	20	25	25	40	40	45	
	3	8	12	12	20	20	30	35	35	60	60	65	
225 V	1	0.5	0.75	0.75	1	1	1	1	1	1	1	1	
	2	1	1.5	1.5	3	3	4	5	5	7	7	8	
	3	5	6	6	10	10	20	25	25	35	35	40	

Dimensions(mm)

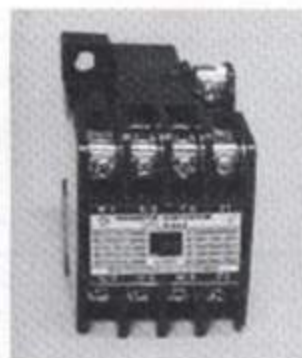


Model Name	Outline Dimensions (mm)						
	A	B	C	D	E	H	Din Rail
C-09DC~C-18DC	69.3	53	34.5	45.3	M4	79/84.5	35
C-25DC~C-35DC	77	55	40	56.5	M4	95.5/100	35
C-45DC~C-65DC	129.3	116	60	75	M5	115	75
C-80DC~C-100DC	129	116	60	82	M5	123	75

Three Pole Contactors

"S-C"-Series 12A to 220A(AC3)

CONTROL CIRCUIT : AC



S-C11



S-C12



S-C16



S-C21



S-C60



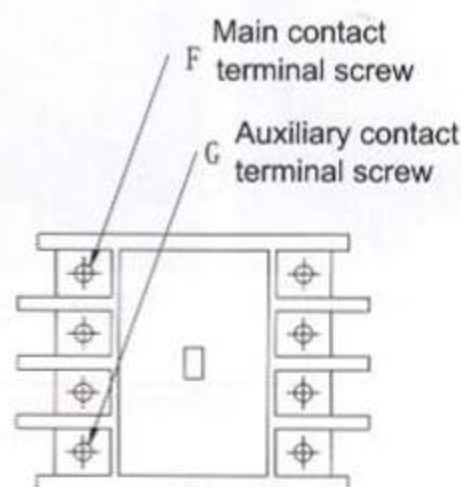
S-C80

Model Name	Instantaneous		AC1 duty $\theta \leq 40^{\circ}\text{C}$	AC3 duty		AC3 duty				le	Weight Kg	Approval				
	Auxiliary Contacts			1 phase		3 phase										
	N/O	N/C		110V	220V	220V	380V	415V	500V							
				KW HP	KW HP	KW HP	KW HP	KW HP	KW HP							
S-C11	4a	1	-	20A	0.55	1.2	3	4	4	4	12A	0.300	 A004239			
	3a1b	-	1		0.75	1.5	4	5.5	5.5	5.5						
S-C12	4a1b	1	1	20A	0.55	1.2	3	4	4	4	12A	0.335				
	5a	2	0		0.75	1.5	4	5.5	5.5	5.5						
	3a2b	0	2													
S-C16	1	1	30A		0.75	1.5	4	5.5	5.5	5.5	16A	0.345				
					1	2	5.5	7.5	7.5	7.5						
S-C21	2	2	36A		1.2	2.2	5.5	11	11	11	24A	0.600				
					1.5	3	7.5	15	15	15						
S-C35	2	2	45A		2.2	4	9	15	15	15	35A	0.960				
					3	5.5	12.5	20	20	20						
S-C50	2	2	65A		3	5.5	13	24	24	24	50A	1.240				
					4	7.5	17.5	32	32	32						
S-C60	2	2	80A		4	7.5	15	30	30	30	58A	1.240				
					5.5	10	20	40	40	40						
S-C65	2	2	100A			11	19	37	37	37	67A	2.085				
						15	25	50	50	50						
S-C80	2	2	125A			15	22	44	44	44	85A	2.085				
						20	30	60	60	60						
S-C100	2	2	145A				30	60	60	60	110A	2.860	 A004239			
							40	80	80	80						
S-C125	2	2	165A				37	75	75	75	135A	2.860				
							50	100	100	100						
S-C150	2	2	200A				45	90	90	90	165A	4.920	 A004239			
							60	125	125	125						
S-C220	2	2	250A				65	110	110	110	220A	6.865	 A004239			
							85	150	150	150						

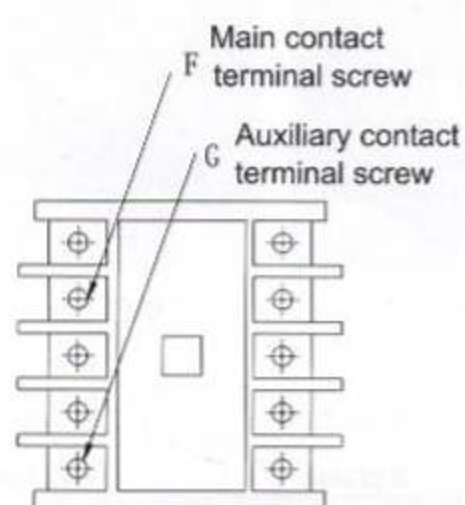
"S-C"-Series Contactors

Dimensions

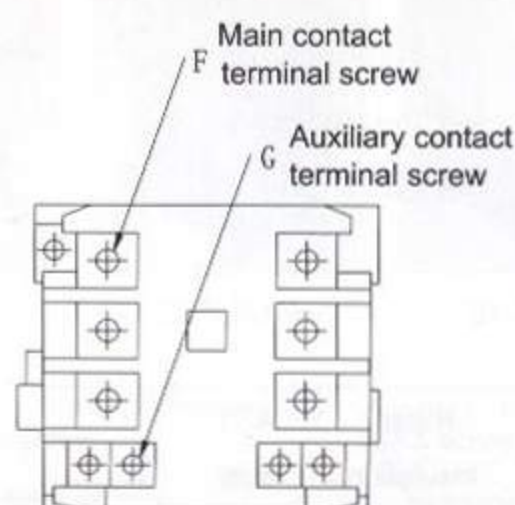
S-C11



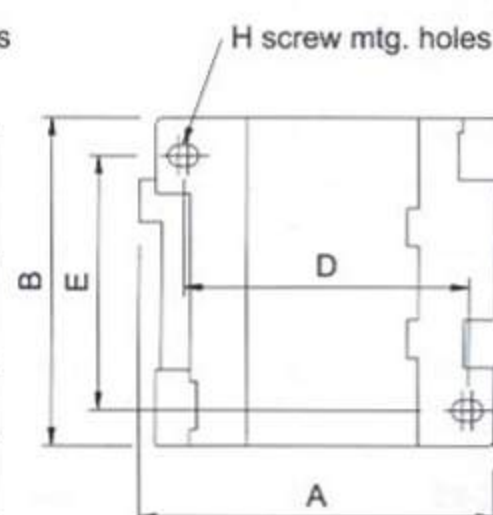
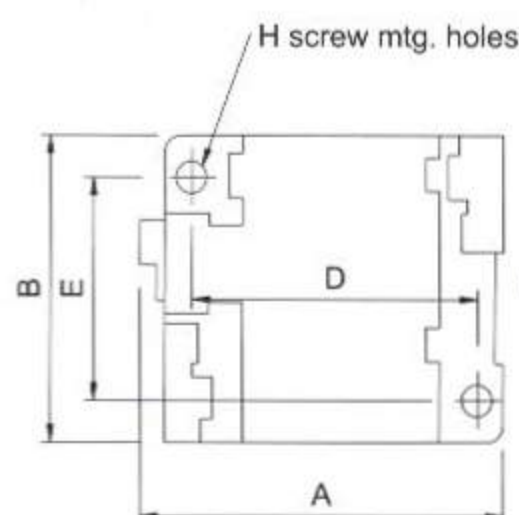
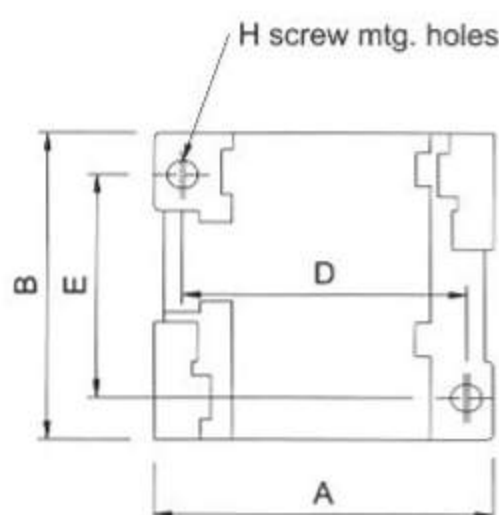
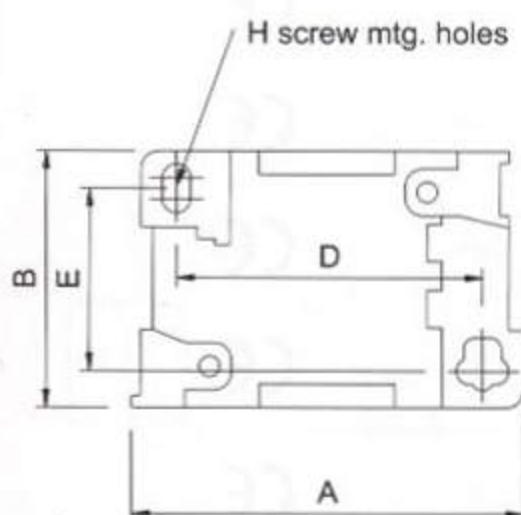
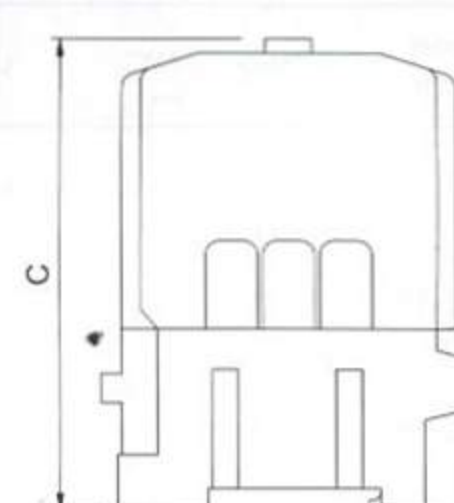
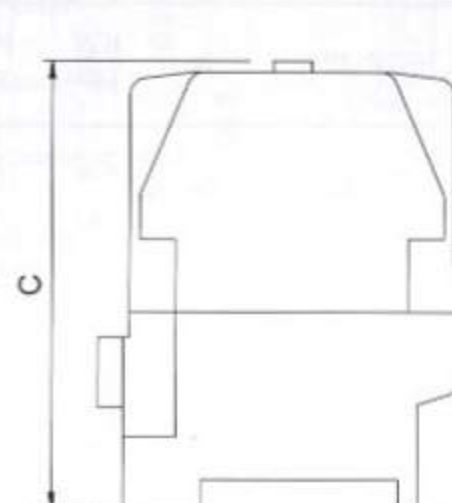
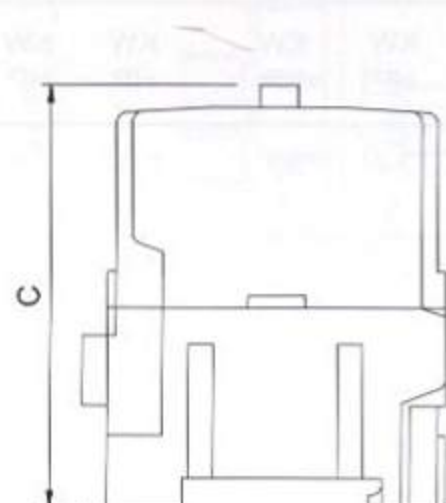
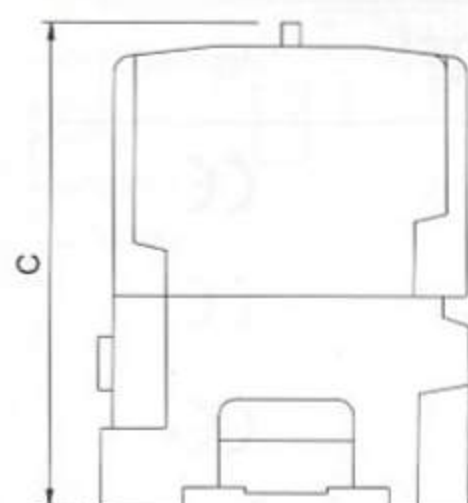
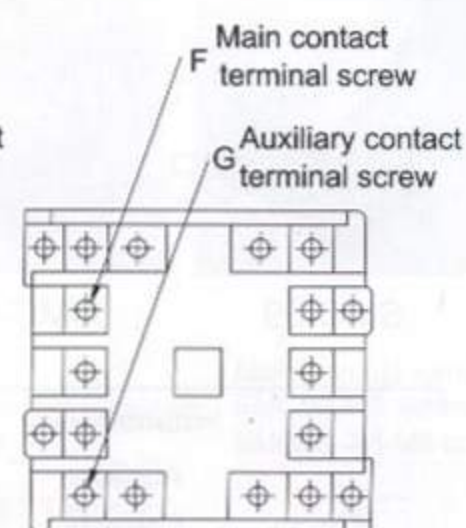
S-C12



S-C16



S-C21



Model Name	Outline Dimensions (mm)								AUX. Contacts	Din Rail
	A	B	C	D	E	F	G	H		
S-C11	63	44	82	50	30	M3.5	M3.5	M4	1NO,1NC	35mm
S-C12	61	56	82	52	41	M3.5	M3.5	M4	1NO+1NC 2NC, 2NO	35mm
S-C16	61	57	82	52	41	M4	M3.5	M4	1NO+1NC	35mm
S-C21	73	69	100	59	54	M4	M4	M4	2NO+2NC	35mm
S-C35	92	85	108	68	71	M5	M4	M5	2NO+2NC	35mm
S-C50/60	106	101	105	90	86	M6	M4	M5	2NO+2NC	
S-C65/80	121	117	129	100	100	M6	M4	M6	2NO+2NC	
S-C100/125	141	141	143	125	115	M8	M4	M6	2NO+2NC	
S-C150	154	161	163	140	130	M10	M4	M6	2NO+2NC	
S-C220	160	179	192	146	140	M10	M4	M6	2NO+2NC	

Thermal Overload Relays

Model Designation

NTH—172PS
1 2 3

1.Current Rating(max.)

0.5	0.75	1.05	1.45	1.9	2.5	3	4	5	6.5	
8	11	14	15	17	21	25	28	32	38	44

2.Phase-Failure Protect

2P	2 Heaters
3P	Phase-Failure

3.Separate Blocks

none	Normal
S	Install

Model Designation

TH—12T3.5O
1 2 3 4

1.Type

12
20
60
120

2.Load Plug

none	Normal
T	Install

3.Current Rating(mean)

12	0.8	1.2	2.1	3.5	5	6.5			
	9	11	15						
20	2.1	3.5	6.5	9	11	15	22	30	41
60	30	41	54	67	80				
120	80	105	130						

4.Rear Connector

none	S-C Series
O	C Series

Model Designation

MTH—52P
1 2

1.Current Rating(max.)

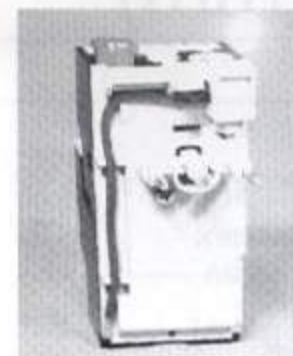
0.5	0.65	1.0	1.5	2.0	2.7	3.6	5
6.5	8.5	12	15				

2.Phase-Failure Protect

2P	2 Heaters
3P	Phase-Failure

Thermal Overload Relays

"NTH"-Series 0.35A to 44A



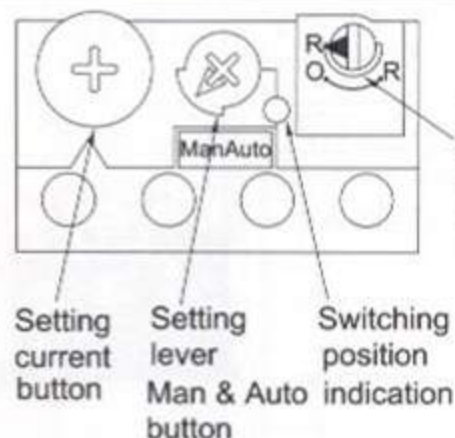
THERMAL OVERLOAD RELAYS

Compensated and differential overload relays

With 1 N/O + 1 N/C electrically separated auxiliary contacts

For direct connection with "C and SMC"- series contactors

Model Name	Relay Setting Range RC (FLC) A	Contactor Type	Weight Kg	Approval	Motor Capacity (HP)				
					1 phase		3 phase		
					100-110V	200-220V	200-220V	380-440V	500-550V
NTH-0.5	0.35 - 0.5A	C-09D,SMC-09	0.14					0.125	
NTH-0.75	0.5 - 0.75A	C-09D,SMC-09	0.14	CE UL LISTED			0.125	0.25	
NTH-1.05	0.75 - 1.05A	C-09D,SMC-09	0.14	CE UL LISTED					0.5
NTH-1.45	1.05 - 1.45A	C-09D,SMC-09	0.14	CE UL LISTED			0.25	0.5	1
NTH-1.9	1.4 - 1.9A	C-09D,SMC-09	0.14	CE UL LISTED		0.125	0.75		
NTH-2.5	1.8 - 2.5A	C-09D,SMC-09	0.14	CE UL LISTED		0.25	0.5	1	1.5
NTH-3	2.4 - 3A	C-09D,SMC-09	0.14	CE UL LISTED				1.5	2
NTH-4	2.9 - 4A	C-09D,SMC-09	0.14	CE UL LISTED	1/8	0.5	1	2	
NTH-5	3.8 - 5A	C-09D,SMC-09	0.14	CE UL LISTED	1/4	0.75		3	3
NTH-6.5	4.5 - 6.5A	C-09D,SMC-09	0.14	CE UL LISTED	1/2	0.75	1.5		5
NTH-8	6 - 8A	C-09D,SMC-09	0.14	CE UL LISTED	1/2		2	5	
NTH-11	8 - 11A	C-11D,SMC-09	0.14	CE UL LISTED		1.5	3		5
NTH-14	11 - 14A	C-12D,SMC-12	0.14	CE UL LISTED	0.75	2	4	7.5	10
NTH-15	10 - 15A	C-12D,SMC-18	0.14	CE UL LISTED	0.75	2	4	7.5	10
NTH-17	14 - 17A	C-12D,SMC-18	0.14	CE UL LISTED	1	2	5	10	15
NTH-21	17 - 21A	C-18D,SMC-22	0.15	CE UL LISTED	1.5	3		15	20
NTH-25	21 - 25A	C-18D,SMC-32	0.15	CE UL LISTED	2	4	7.5		20
NTH-28	24 - 28A	C-25D,SMC-32	0.15	CE UL LISTED				20	
NTH-32	26 - 32A	C-25D,SMC-32	0.15	CE UL LISTED		5	10		25
NTH-38	30 - 38A	C-35D,SMC-40	0.18	CE				25	30
NTH-44	36 - 44A	C-35D,SMC-40	0.18	CE		7.5	15	30	40



Button for reset and disconnection -setting: O/R or R;
O/R=reset and disconnection
R=reset only

Knob for changing to "reset". Function depends on the position of the reset button.

1. MAN-position

A. MAN-position and reset button on position R.

The blue reset button is for manual reset only. Accidental pushing of the reset button of the untripped relay does not result in any contact function.

B. MAN-position and reset button on position O/R.

The blue reset button is for manual reset and it can be used as a STOP-button as well. Contact 95-96 open while pressing the reset button.

2. AUTO-position

A. AUTO-position and reset button on position R.

The tripped relay will automatically reset itself after approx. 1 min.

B. AUTO-position and reset button on position O/R.

The tripped relay will automatically reset itself after approx. 1 min.

The blue reset button is used only as a STOP-button. Contact 95-96 open while the reset button is pressed.

Note : Select and set the overload relay according to the current value on the motor rating plate. Direct mounting on the underside of the contactors.

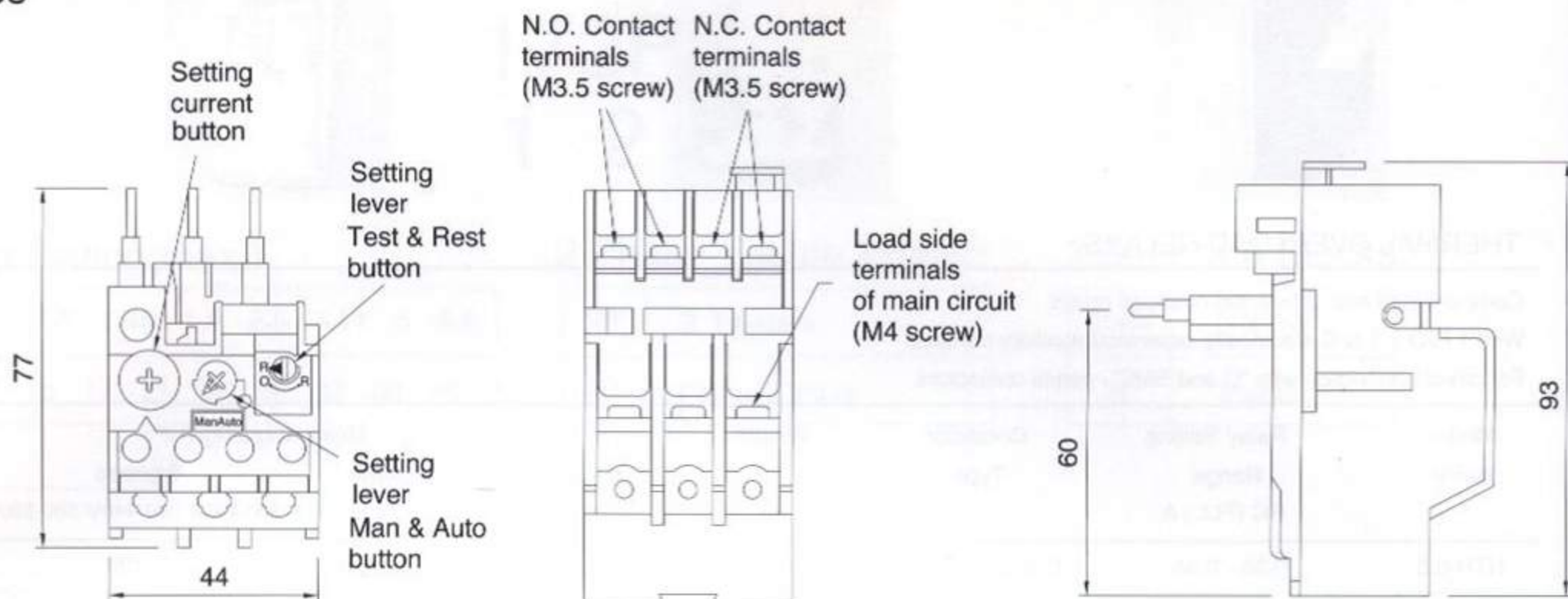
Terminals protected against direct finger contact and fitted with ready to tighten screws. Lockable and sealable Man/Auto switch.

Trip Test. Cover locks the function.

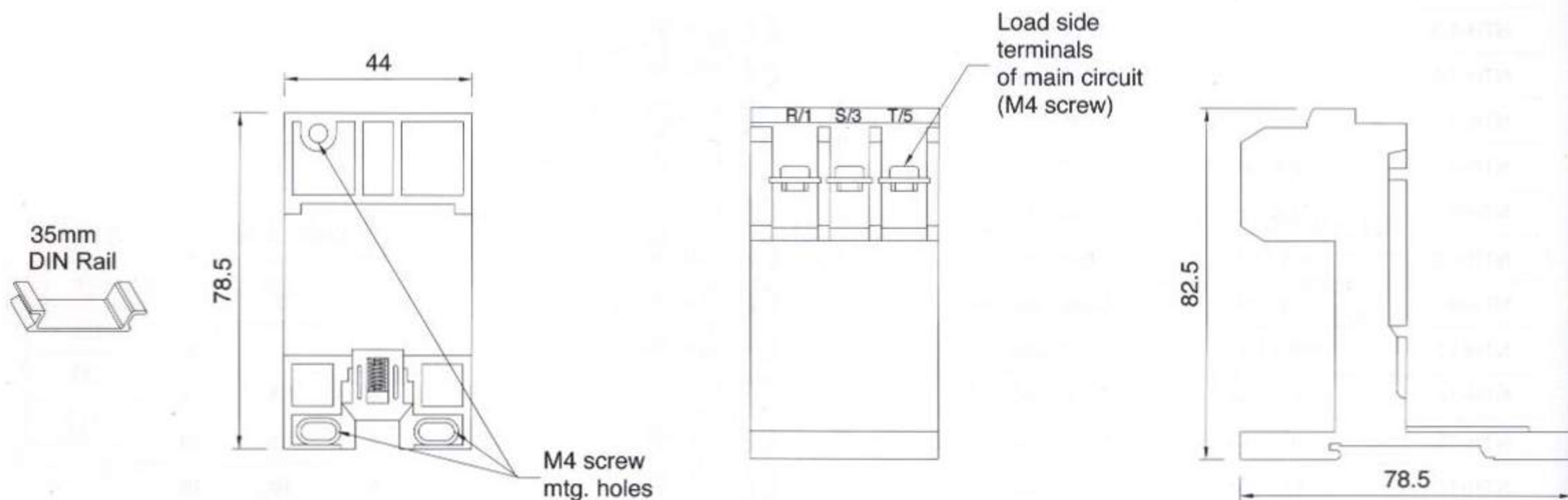
"NTH"- Series Thermal Overload Relays

Dimensions(mm)

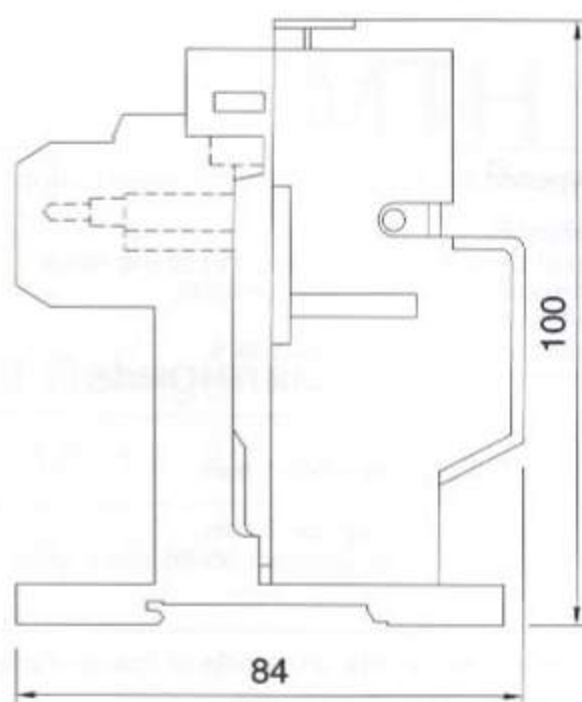
NTH-Series



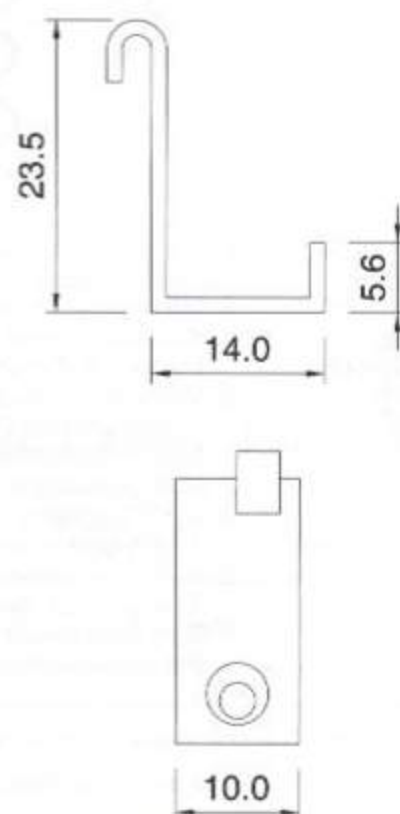
NTH-04 Separate Blocks



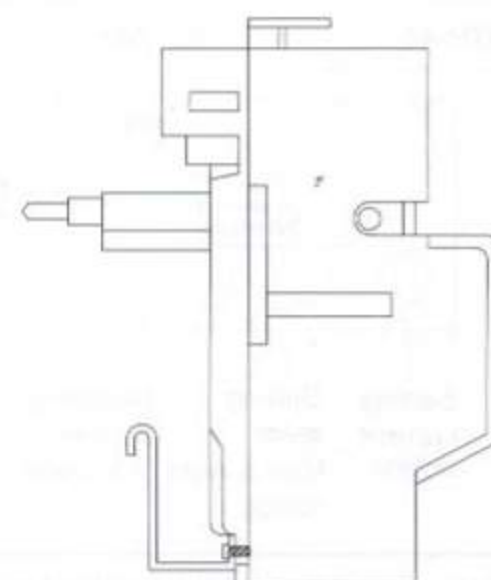
NTH+NTH-04



NTH-51 Rear connector



NTH+NTH-51 (C-25D.C-35D only)



Thermal Overload Relays

"TH"- Series 0.64A to 160A



TH-12



TH-20



TH-20(T)



TH-60



TH-60(T)



TH-120

Compensated and differential overload relays
With 1 N/O + 1 N/C (1 com) auxiliary contacts
For direct connection with "S-C"- series contactors

Approval



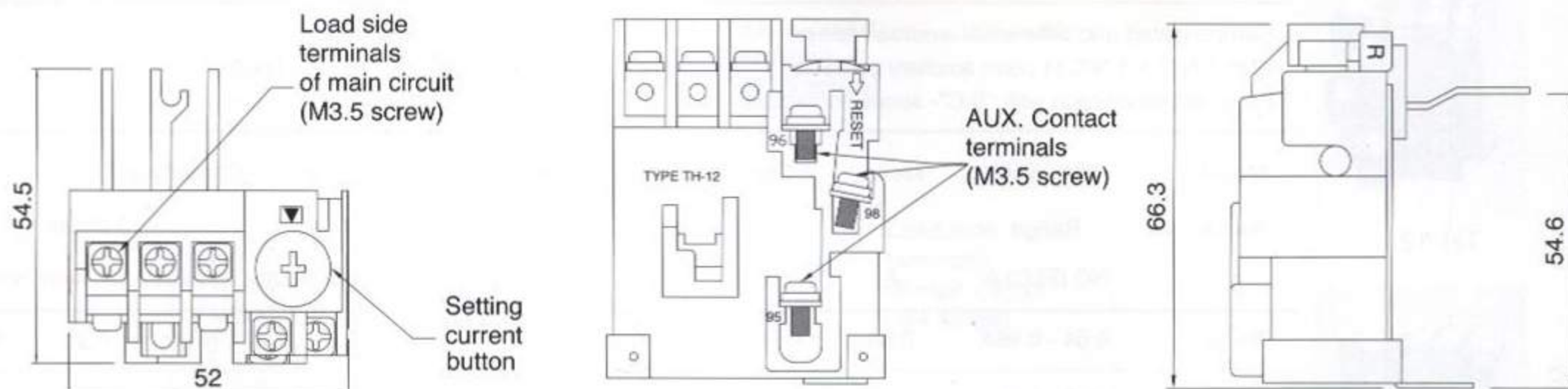
TH12 ~ TH60

Model Name	Relay Setting Range RC (FLC) A	Mean A	Contactor Type	Weight Kg	Motor Capacity (HP)				
					1 phase		3 phase		
					100-110V	200-220V	200-220V	380-440V	500-550V
TH-12	0.64 - 0.96A	0.8A	S-C11~S-C12	0.095			0.125	0.25	0.5
TH-12	0.9 - 1.5A	1.2A	S-C11~S-C12	0.095			0.25	0.5	0.75
TH-12	1.6 - 2.6A	2.1A	S-C11~S-C12	0.095			0.5	1	1.5
TH-12	2.8 - 4.2A	3.5A	S-C11~S-C12	0.095	0.125	0.5	1	2	3
TH-12	4 - 6A	5A	S-C11~S-C12	0.095	0.25	0.75	1.5	3	4
TH-12	5 - 8A	6.5A	S-C11~S-C12	0.095	0.5	1	2	4	
TH-12	7 - 11A	9A	S-C11~S-C12	0.095			3	5	7.5
TH-12	9 - 13A	11A	S-C12	0.095	0.75	1.5	4	7.5	10
TH-12	12 - 18A	15A	S-C16	0.095	1	2	5	10	
TH-20(T)	1.6 - 2.6A	2.1A	S-C16~S-C21	0.135			0.5	1	1.5
TH-20(T)	2.8 - 4.2A	3.5A	S-C16~S-C21	0.135	0.125	0.5	1	2	3
TH-20(T)	4 - 6A	5A	S-C16~S-C21	0.135	0.25	0.75	1.5	3	4
TH-20(T)	5 - 8A	6.5A	S-C16~S-C21	0.135	0.5	1	2	4	
TH-20(T)	7 - 11A	9A	S-C16~S-C21	0.135			3	5	7.5
TH-20(T)	9 - 13A	11A	S-C16~S-C21	0.135	0.75	1.5	4	7.5	10
TH-20(T)	12 - 18A	15A	S-C16~S-C21	0.135	1	2	5	10	
TH-20(T)	18 - 26A	22A	S-C21	0.135	1.5		7.5	15	20
TH-20(T)	24 - 36A	30A	S-C35	0.135		5	10	20	
TH-20(T)	33 - 50A	41A	S-C35	0.135	3	7.5	15	30	40
TH-60(T)	24 - 36A	30A	S-C50	0.225		5	10	20	
TH-60(T)	33 - 50A	41A	S-C50	0.225	3	7.5	15	30	40
TH-60(T)	43 - 65A	54A	S-C60	0.225			20	40	50
TH-60(T)	54 - 80A	67A	S-C65	0.225	6		25	50	60
TH-60(T)	60 - 100A	80A	S-C80	0.225			30	60	75
TH-120	60 - 100A	80A	S-C100	0.490			30	60	75
TH-120	80 - 130A	105A	S-C100	0.490			40	75	100
TH-120	100 - 160A	130A	S-C125	0.490			50	100	125

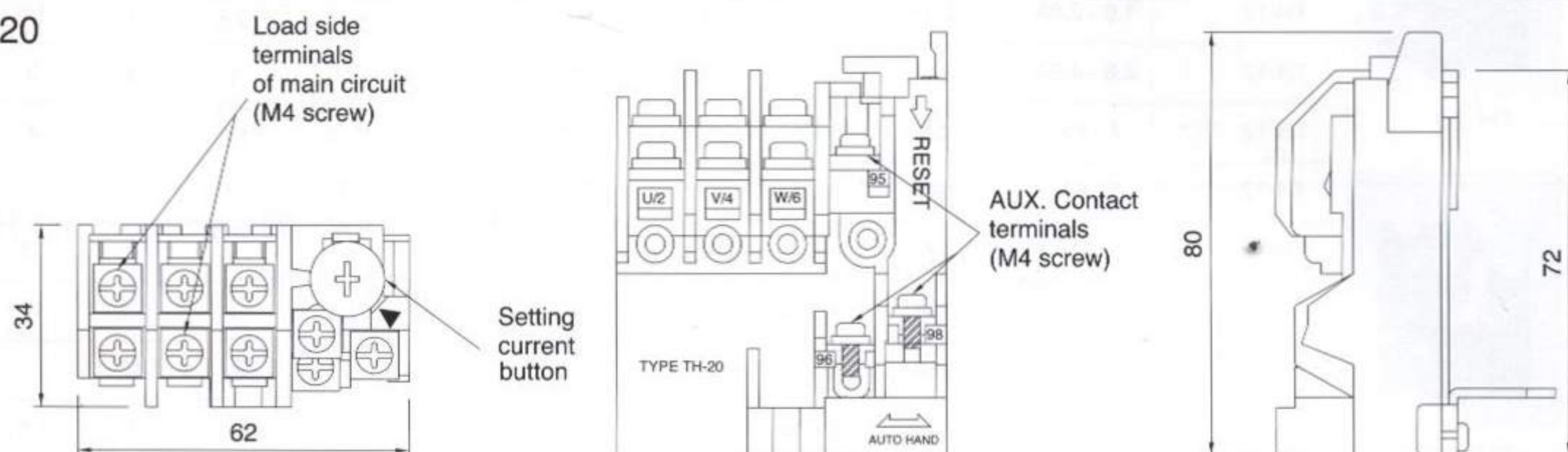
"TH"- Series Thermal Overload Relays

Dimensions(mm)

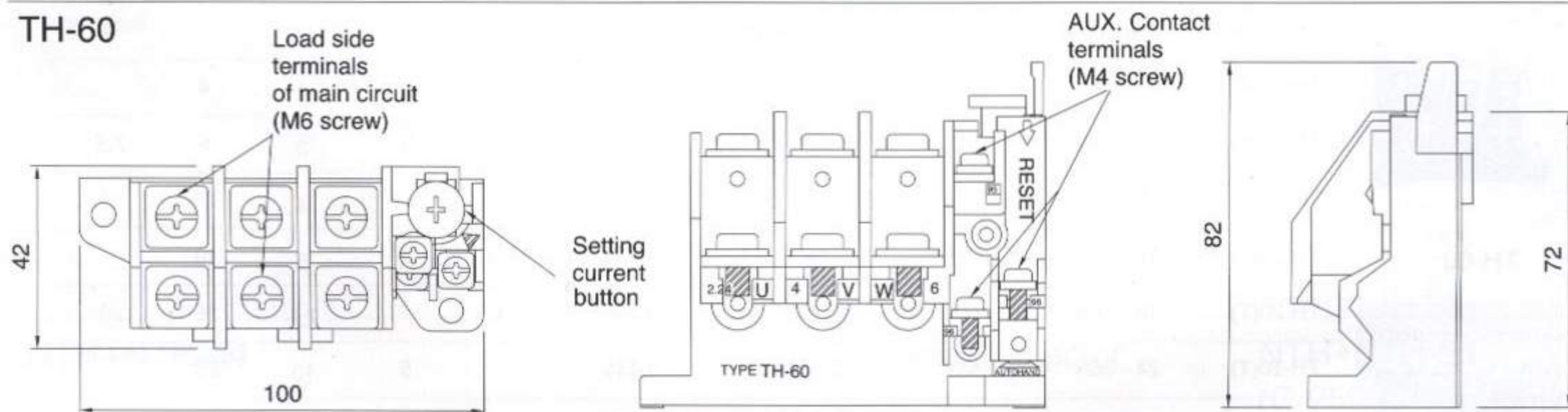
TH-12



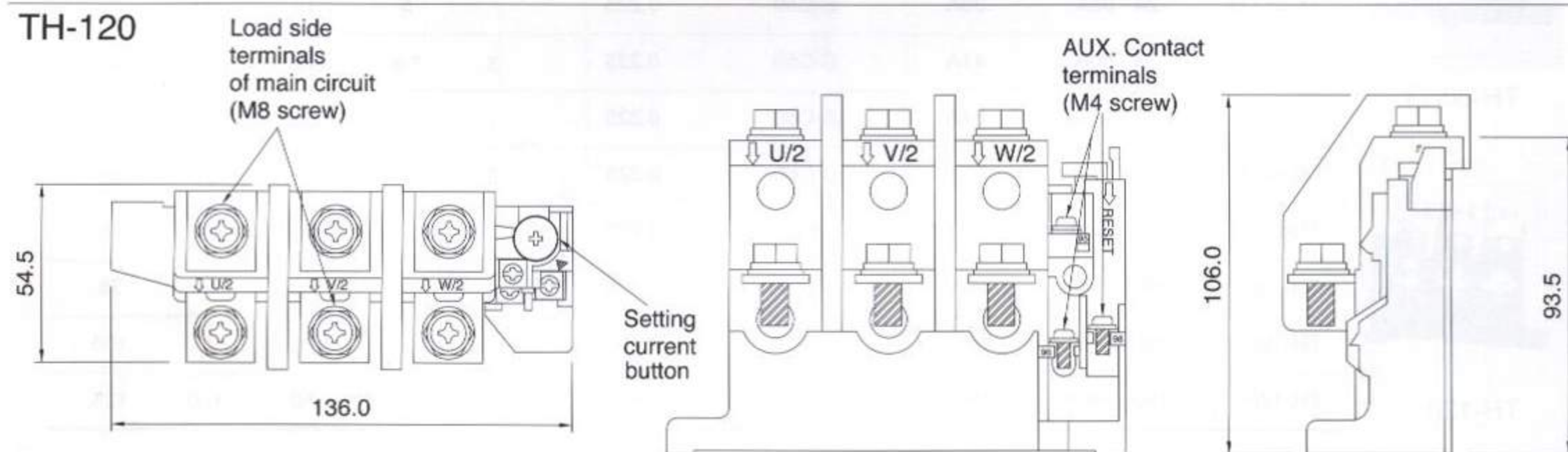
TH-20

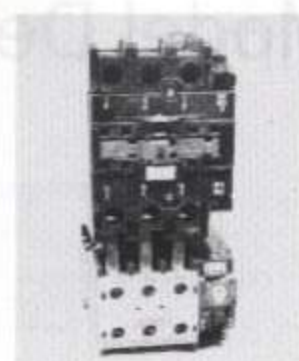


TH-60



TH-120





MSO-45D

Non-reversing starters - enclosed and open type

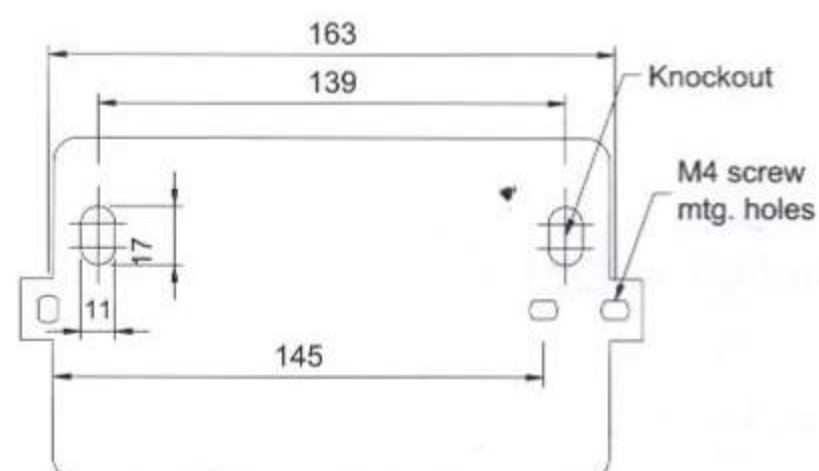
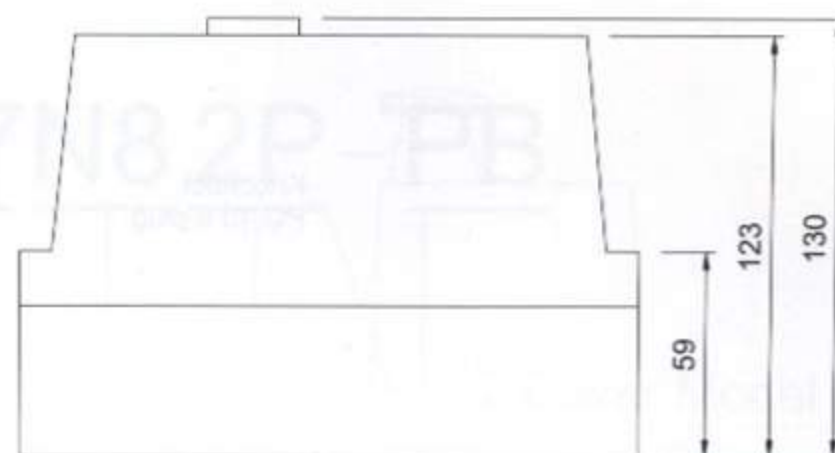
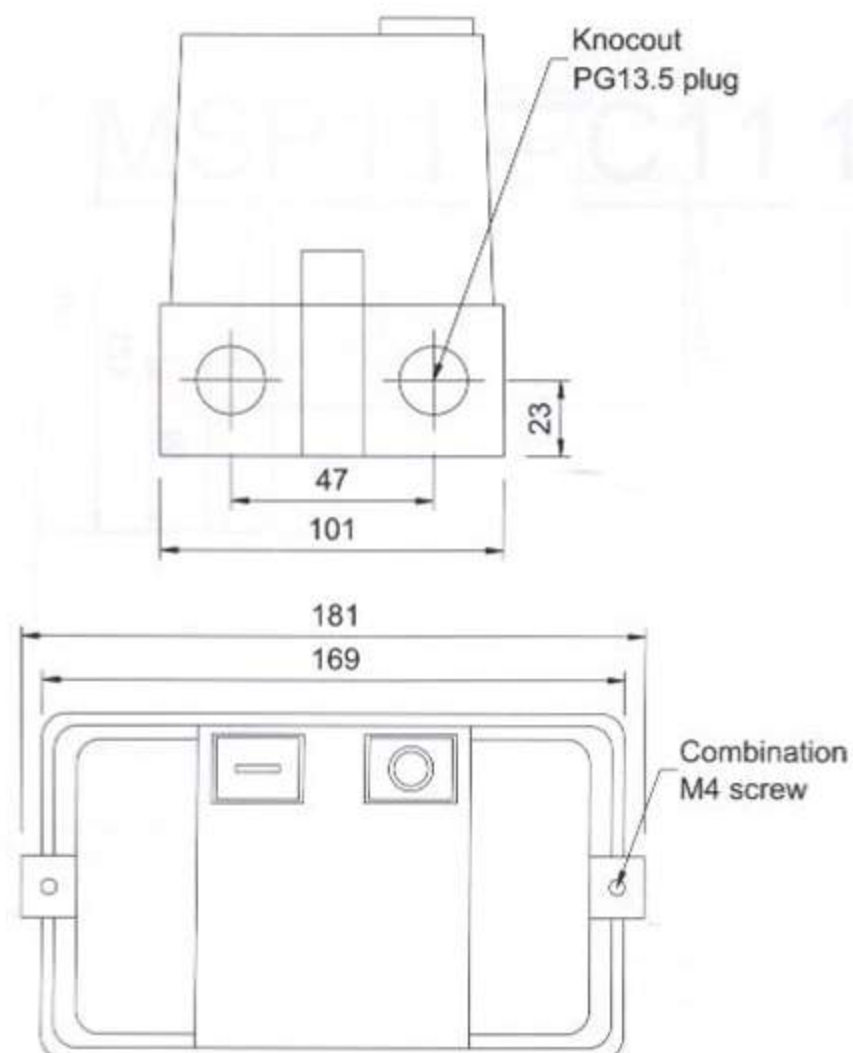
Model Name	3-phase				1-phase		Overload Relay Type	Instantaneous Auxiliary Contacts		Weight Kg	Approval
	220V	380V	440V	575V	120V	230V					
Open type Non-push button Starters	KW HP A	KW HP A	KW HP A	KW HP A	KW HP A	KW HP A		N/O	N/C		
MSO-06D	2.2 3 9	3.7 5 9	3.7 5 8	3.7 5 6.5	0.2 0.33 7.2	1.1 1.5 10	MTH	1	-	0.285	CE
MSO-09D	2.2	3.7	3.7	3.7	0.37	1.5	TH12/20,NTH			0.485	CE
MS-09D	3	5	5	5	0.75	2	NTH	1	-	0.866	
MS1-09D	9	9	8	6.5	13.8	12	NTH			0.940	
MSO-11D	3	5.5	5.5	5.5	0.55	1.5	TH12/20,NTH			0.485	CE
MS-11D	4	7.5	7.5	7.5	0.75	2	NTH	1	-	0.866	
MS1-11D	12	12	11	9	13.8	12	NTH			0.940	
MSO-12D	4	7.5	7.5	7.5	0.75	2.2	TH12/20,NTH			0.485	CE
MS-12D	5.5	10	10	10	1	3	NTH	1	-	0.866	
MS1-12D	16	16	15	13	16	17	NTH			0.940	
MSO-18D	5.5	10	10	10	1.5	3.7	TH20,NTH			0.515	CE
MS-18D	7.5	15	15	15	2	5	NTH	1	-	0.915	
MS1-18D	23	22	21	16	24	28	NTH			0.969	
MSO-25D	7.5	15	15	15	2.2	4	TH20,NTH			0.673	CE
MS-25D	10	20	20	20	3	5.5	NTH	1	-	1.435	
MS1-25D	30	30	30	25	34	33	NTH			1.450	
MSO-35D	11	19	19	19	3	5.5	TH20,NTH			0.690	CE
MS-35D	15	25	25	25	4	7.5	NTH	1	-	1.460	
MS1-35D	42	39	36	29	45	40	NTH			1.475	
MSO-45D	15 20 55	30 40 64	30 40 52	30 40 46			NTH	1	1	1.700	CE
MSO-55D	19 25 65	33 45 68	33 45 57	33 45 50			NTH	1	1	1.700	CE
MSO-65D	22 30 75	37 50 72	37 50 64	37 50 53			NTH	1	1	1.700	CE
MSO-80D	25 35 90	45 60 85	55 75 95	55 75 72			NTH	1	1	1.900	CE
MSO-100D	30 40 105	55 75 105	55 75 95	60 80 76			NTH	1	1	1.900	CE

Enclosure of Motor Starters

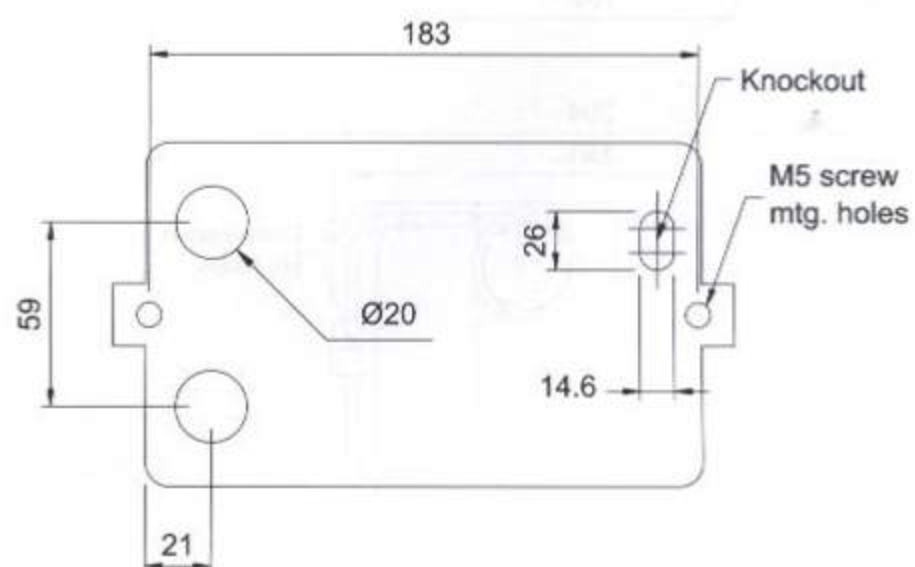
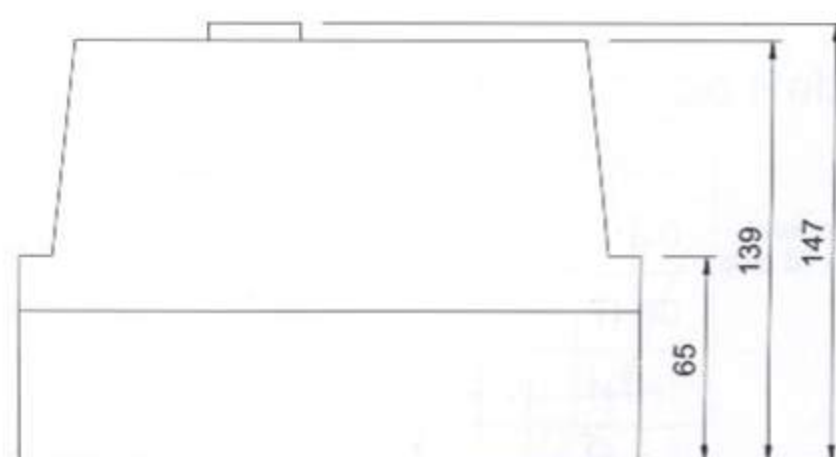
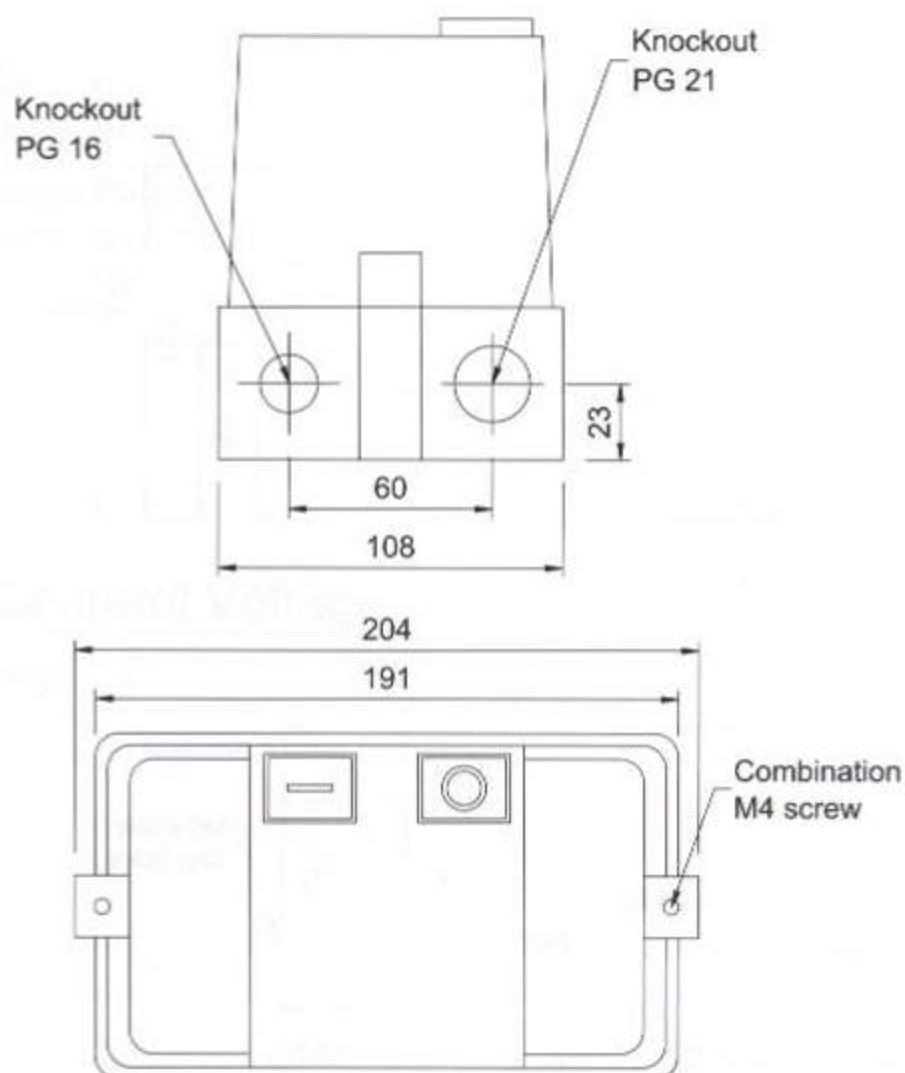
MS1 IP65

Dimensions(mm)

MS1-09D/11D/12D/18D



MS1-25D/35D

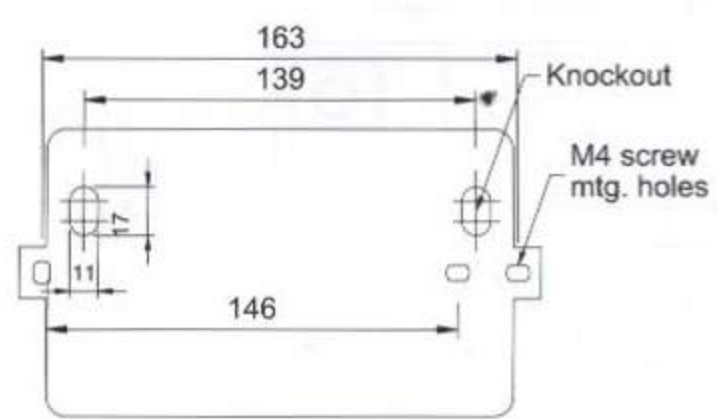
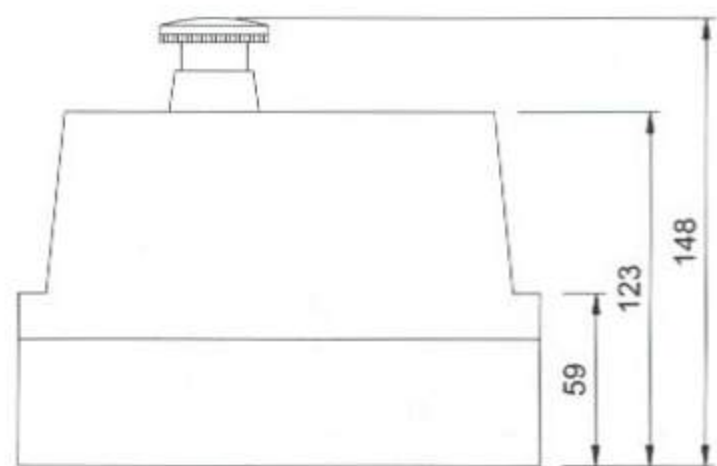
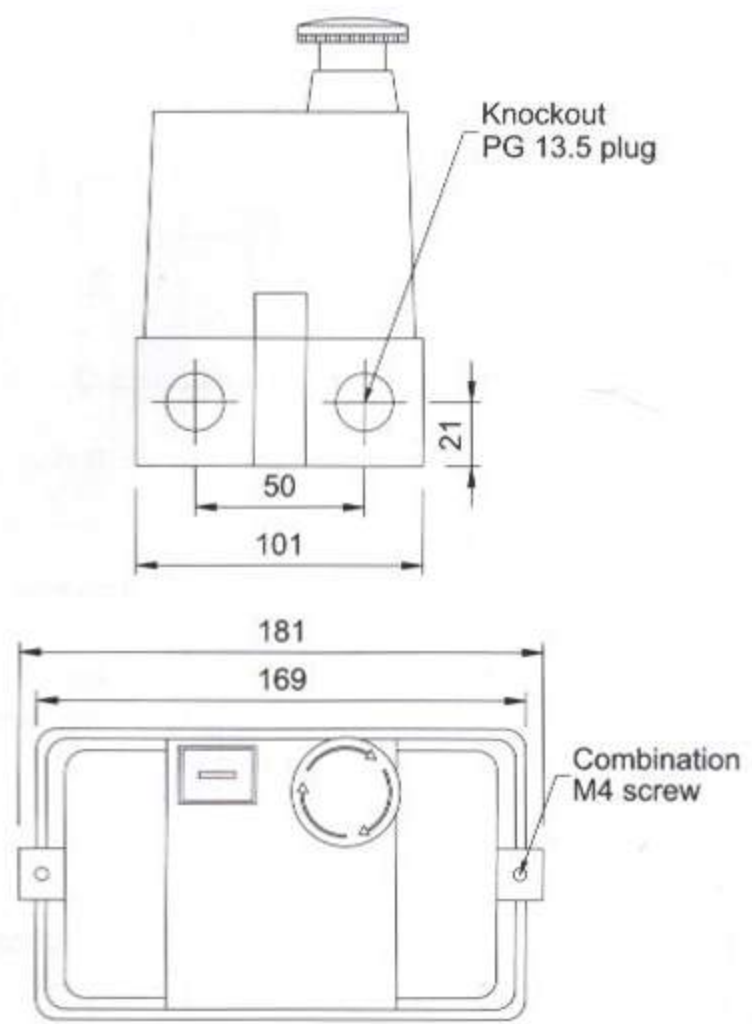


Enclosure of Motor Starters

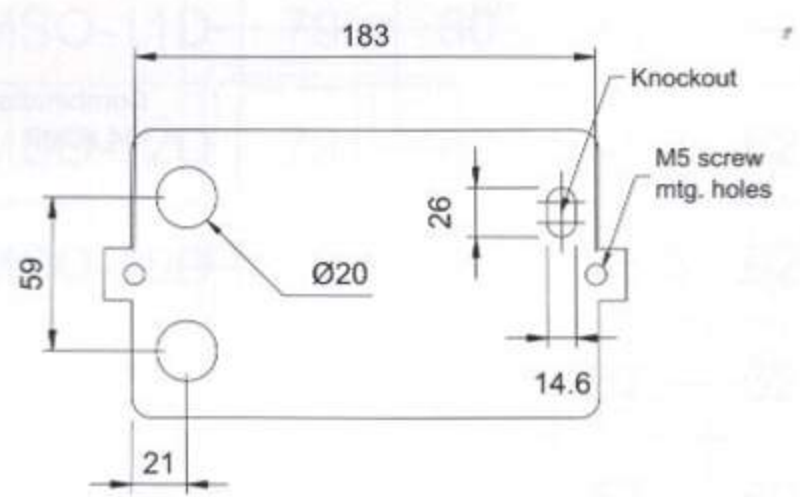
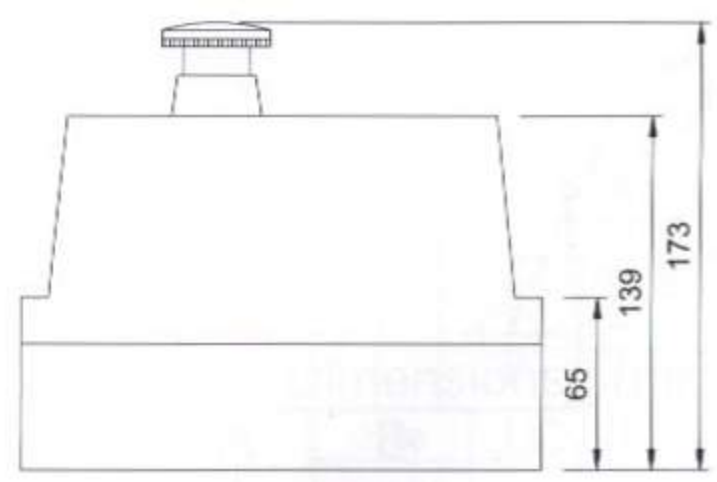
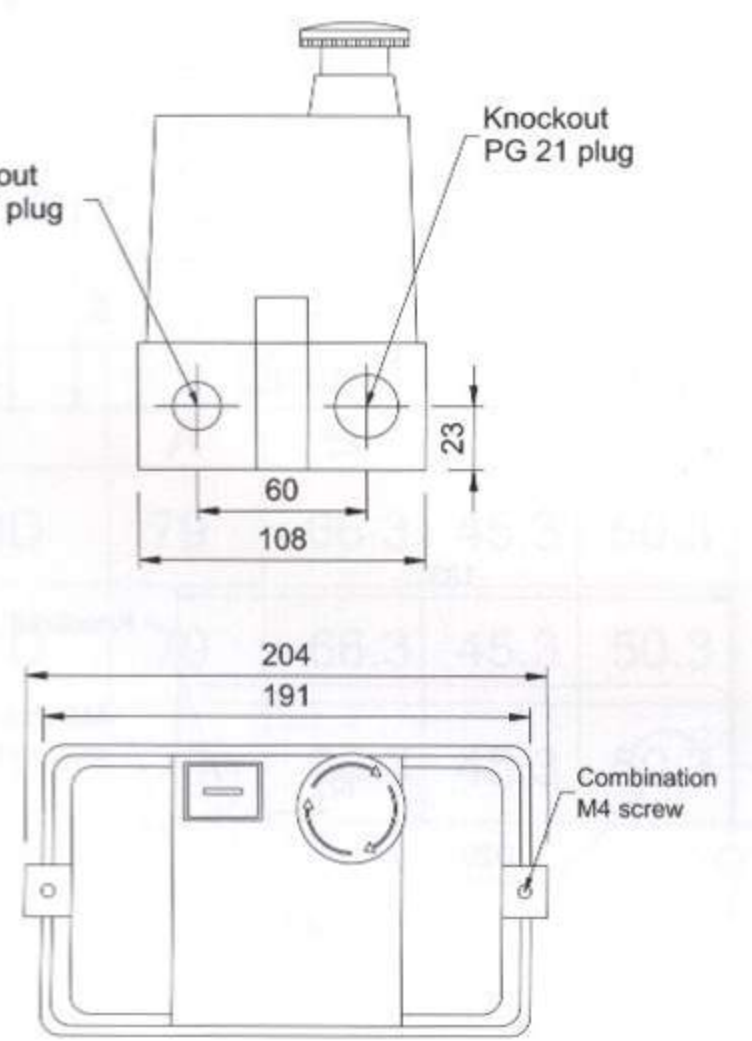
MS1 IP65

Dimensions(mm)

MS1-09D/11D/12D/18D-R



MS1-25D/35D-R



AC Motor Starters

Moulded Plastic Enclosure(MSP IP42)

Model Designation

MSP11 – C11 1G7N8 2P – PB

1.Series

MSP11
MSP21
MSP35

2.Capacity

MSP11	09D 11D 12D S-C11
MSP21	09D~35D S-C11~S-C21 S09~S22
MSP35	S32~S40

*S09=SMC-09

3.Phase

1	Single Phase
2	Single Phase Terminal Jumper
3	3 Phase

4.Coil Control Voltage

Detail Page 1-1

7.Cover Model

none	Enclosure
PB	Enclosure with push button

6.Phase-Failure Protection

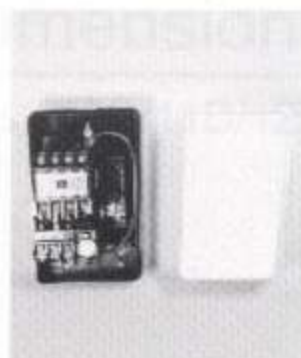
2P	2 Heaters
3P	Phase-Failure

5.Overload Relay

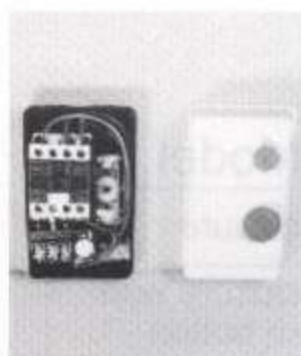
T12	TH12
T20	TH20
T60	TH60
N	NTH

Enclosure of Motor Starters

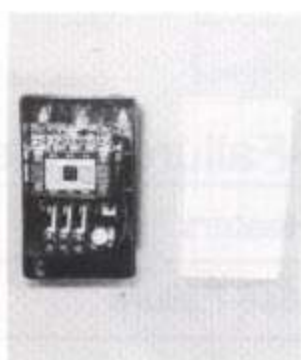
MSP IP42



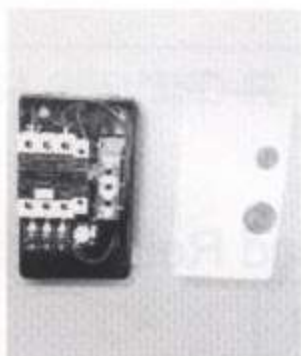
MSP11-C11



MSP11-09-PB



MSP21-C21



MSP21-35D-PB



MSP21-S09



MSP35-S32-PB

Non-reversing starters - enclosed without push-button type

With differential overload relay, 1 N/O + 1 N/C auxiliary contacts(NTH), 1 N/O + N/C(1com) auxiliary contacts(TH)
Maximum power rating (50 or 60HZ)

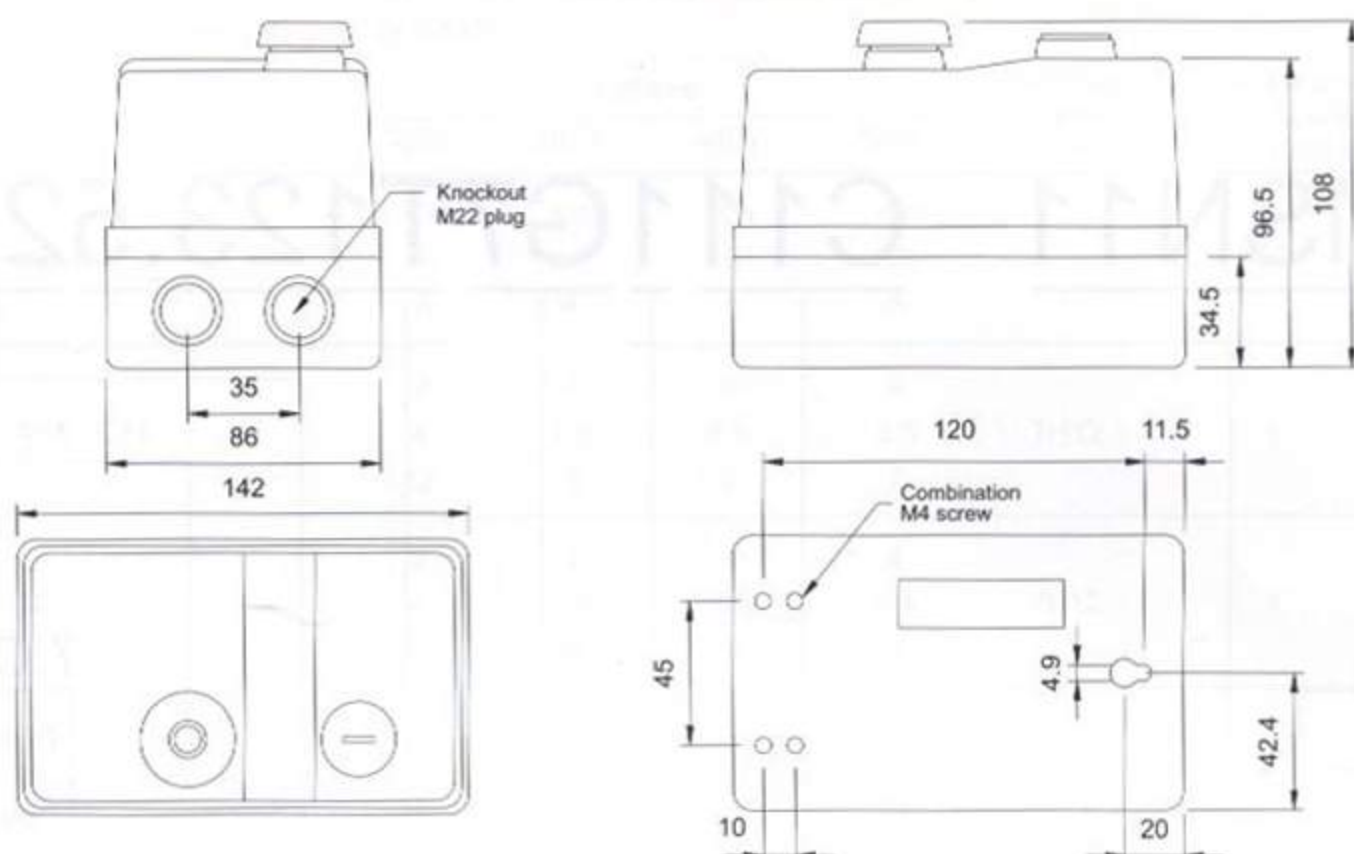
Model Name	3-phase				Overload Relay Type	Instantaneous Auxiliary Contacts		Weight Kg
	220V	380V	440V	575V		N/O	N/C	
Non-push button Starters	KW HP	KW HP	KW HP	KW HP				
MSP11-C11	3	4	4	4	TH-12	1	-	0.577
MSP11-C11-PB	4	5.5	5.5	5.5	TH-12			0.592
MSP11-09D	2.2	3.7	3.7	3.7	TH-12/20	1	-	0.620
MSP11-09D-PB	3	5	5	5	TH-12/20			0.635
MSP11-11D	3	5.5	5.5	5.5	TH-12/20	1	-	0.625
MSP11-11D-PB	4	7.5	7.5	7.5	TH-12/20			0.640
MSP11-12D	4	7.5	7.5	7.5	TH-12/20	1	-	0.625
MSP11-12D-PB	5.5	10	10	10	TH-12/20			0.640
MSP21-C11	3	4	4	4	TH-12	1	-	0.695
MSP21-C11-PB	4	5.5	5.5	5.5	TH-12			0.645
MSP21-C12	3	4	4	4	TH-12	1	1	0.723
MSP21-C12-PB	4	5.5	5.5	5.5	TH-12			0.670
MSP21-C16	4	5.5	5.5	5.5	TH-12/20	1	1	0.750
MSP21-C16-PB	5.5	7.5	7.5	7.5	TH-12/20			0.800
MSP21-C21	5.5 7.5	11 15	11 15	11 15	TH-20	2	2	1.015
MSP21-09D	2.2	3.7	3.7	3.7	TH-12/20	1	-	0.740
MSP21-09D-PB	3	5	5	5	TH-12/20			0.790
MSP21-11D	3	5.5	5.5	5.5	TH-12/20	1	-	0.740
MSP21-11D-PB	4	7.5	7.5	7.5	TH-12/20			0.790
MSP21-12D	4	7.5	7.5	7.5	TH-12/20	1	-	0.740
MSP21-12D-PB	5.5	10	10	10	TH-12/20			0.790
MSP21-18D	5.5	10	10	10	TH-20,NTH	1	-	0.754
MSP21-18D-PB	7	15	15	15	TH-20,NTH			0.804
MSP21-25D	7.5	15	15	15	TH-20	1	-	0.940
MSP21-25D-PB	10	20	20	20	TH-20			0.990
MSP21-35D	11	19	19	19	TH-20	1	-	0.965
MSP21-35D-PB	15	25	25	25	TH-20			1.015
MSP21-S09	2.2	3.7	3.7	3.7	TH-12,NTH	1	1	0.804
MSP21-S09-PB	3	5	5	5	TH-12,NTH			1.854
MSP21-S21	3	5.5	5.5	5.5	TH-12,NTH	1	1	0.804
MSP21-S12-PB	4	7.5	7.5	7.5	TH-12,NTH			1.854
MSP21-S18	3.7	7.5	7.5	7.5	TH-20,NTH	1	1	0.804
MSP21-S18-PB	5	10	10	10	TH-20,NTH			1.854
MSP21-S22	5.5	11	11	11	TH-20,NTH	1	1	0.804
MSP21-S22-PB	7.5	15	15	15	TH-20,NTH			1.854
MSP35-S32	7.5	15	15	15	TH-20,NTH	2	2	1.055
MSP35-S32-PB	10	20	20	20	TH-20,NTH			1.085
MSP35-S40	11	19	19	19	TH-60,NTH	2	2	1.136
MSP35-S40-PB	15	25	25	25	TH-60,NTH			1.166

Enclosure of Motor Starters

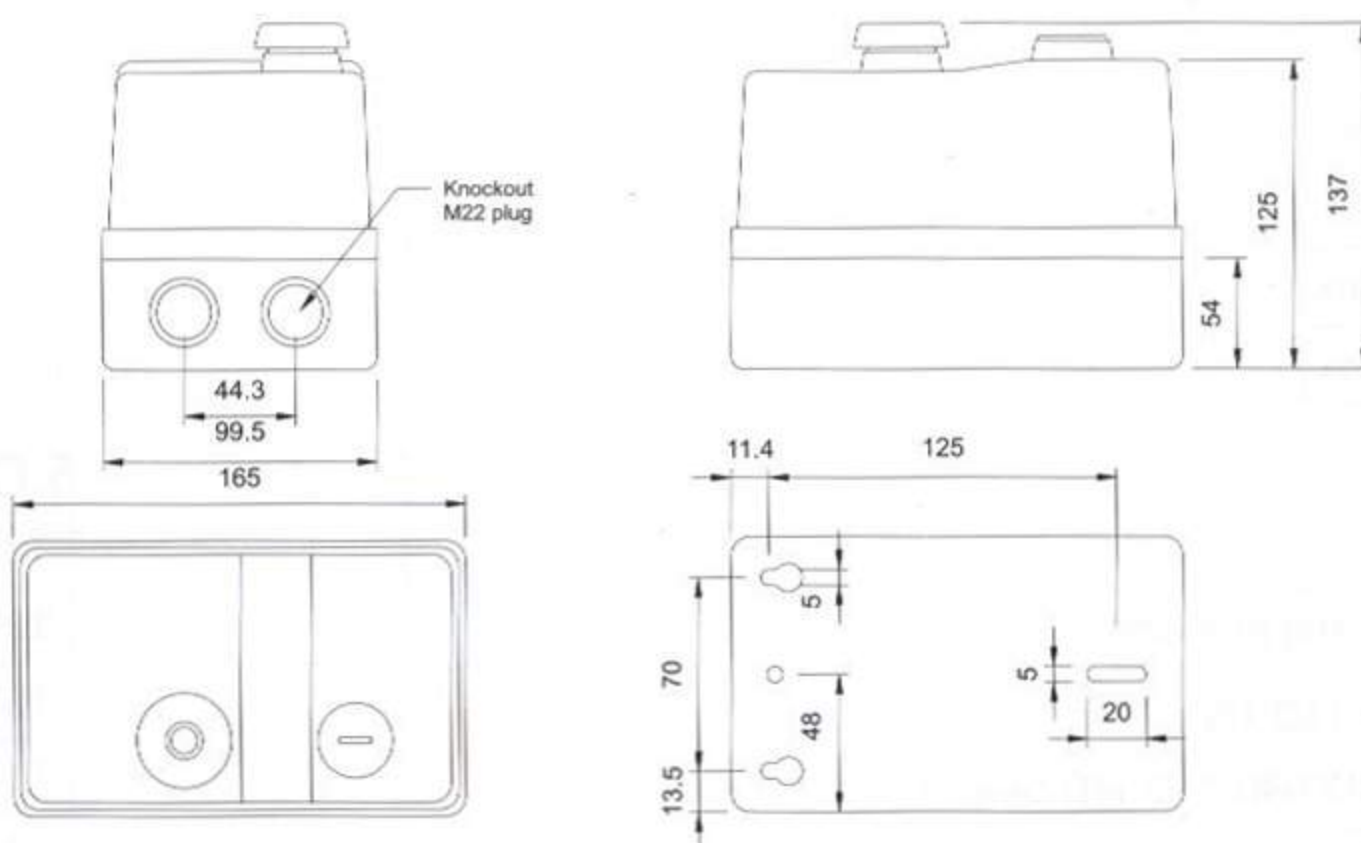
MSP IP42

Dimensions(mm)

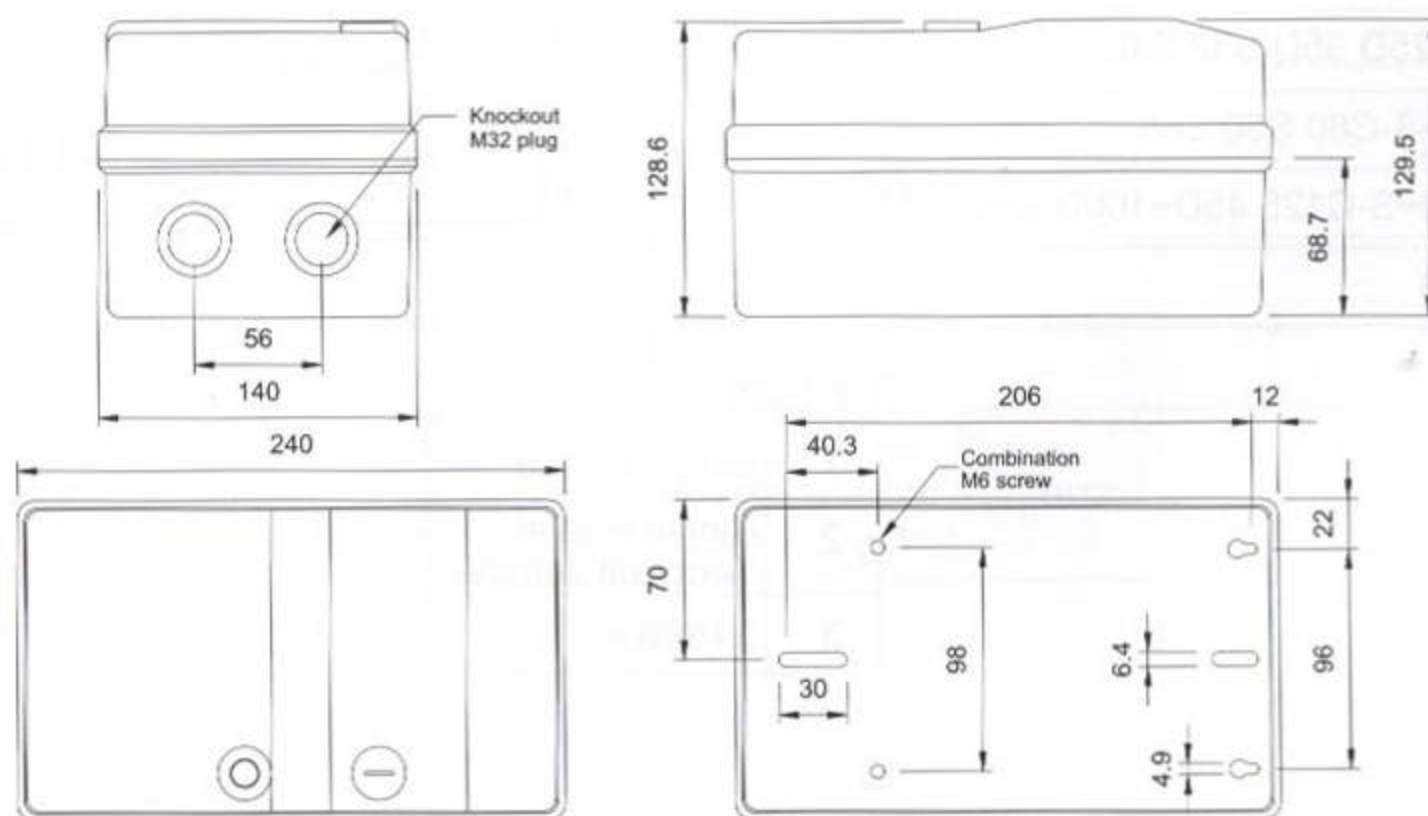
MSP11



MSP21



MSP35



AC Motor Starters

Moulded Metel Enclosure(MSN IP40)

Model Designation

MSN11–C111G7T123.52P–PB

1.Series

MSO	Open
MSN11	11 Iron Box
MSN12	12 Iron Box
MSN21	21 Iron Box
MSN35	35 Iron Box
MSN65	65 Iron Box
MSN100	100 Iron Box
MSN150	150 Iron Box

2.Capacity

MSO	S-C11~S-C150 S09~S85
MSN11	S-C11 09D 11D 12D
MSN12	S-C11 S-C12 09D 11D 12D S09 S12
MSN21	S-C16~S-C21 09D~25D S09~S22
MSN35	S-C35 25D 35D S32 S40
MSN65	S-C50~S-C80 S50 S65
MSN100	S-C100~S-C125 45D~100D S65~S85
MSN150	S-C150

*S09=SMC-09

3.Phase

1	Single Phase
2	Single Phase Terminal Jumper
3	3 Phase

7.Cover Model

none	Enclosure
PB	Enclosure with push button

6.Phase-Failure Protect

2P	2 Heaters
3P	Phase-Failure

5.Overload Relay

T12	TH12
T20	TH20
T60	TH60
T120	TH120
N	NTH

4.Coil Conterol Voltage

Detail Page 1-1

Moulded Metal Enclosure

MSN IP40

Non-reversing starters - enclosed

With differential overload relay , 1 N/O + 1 N/C auxiliary contacts(NTH) , 1 N/O + N/C(1com) auxiliary contacts(TH)

Maximum power rating (50 or 60HZ)

Model Name	3-phase				Overload Relay Type	Instantaneous Auxiliary Contacts		Weight Kg
	220V	380V	440V	575V		N/O	N/C	
Type	KW HP A	KW HP A	KW HP A	HP hp A				
MSN11-C11	3 4 12	4 5.5 9	4 5.5 9	4 5.5 7	TH12	1	-	0.705
MSN11-09D	2.2 3 9	3.7 5 9	3.7 5 8	3.7 5 6.5	TH12	1	-	0.731
MSN11-11D	3 4 12	5.5 7.5 12	5.5 7.5 11	5.5 7.5 9	TH12	1	-	0.735
MSN11-12D	4 5.5 16	7.5 10 16	7.5 10 15	7.5 10 13	TH12	1	-	0.735
MSN12-C11-PB	3 4 12	4 5.5 9	4 5.5 9	4 5.5 7	TH12	1	-	0.860
MSN12-C12-PB	3 4 12	4 5.5 9	4 5.5 9	4 5.5 7	TH12	1	1	0.905
MSN12-09D-PB	2.2 3 9	3.7 5 9	3.7 5 8	3.7 5 6.5	TH12/20	1	-	0.886
MSN12-11D-PB	3 4 12	5.5 7.5 12	5.5 7.5 11	5.5 7.5 9	TH12/20	1	-	0.890
MSN12-12D-PB	4 5.5 16	7.5 10 16	7.5 10 15	7.5 10 13	TH12/20	1	-	0.890
MSN21-C16	4 5.5 16	5.5 7.5 12	5.5 7.5 11	5.5 7.5 10	TH20	1	1	1.045 1.115
MSN21-C21	5.5 7.5 24	11 15 21	11 15 20	11 15 17	TH20	2	2	1.300 1.375
MSN21-09D	2.2 3 9	3.7 5 9	3.7 5 8	3.7 5 6.5	TH12/20,NTH	1	-	1.025 1.085
MSN21-11D	3 4 12	5.5 7.5 12	5.5 7.5 11	5.5 7.5 9	TH12/20,NTH	1	-	1.025 1.085
MSN21-12D	4 5.5 16	7.5 10 16	7.5 10 15	7.5 10 13	TH12/20,NTH	1	-	1.025 1.085
MSN21-18D	5.5 7.5 23	10 15 22	10 15 21	10 15 16	TH20,NTH	1	-	1.030 1.090
MSN21-25D	7.5 10 30	15 20 30	15 20 30	15 20 25	TH20	1	-	1.225 1.295



MSN12-C11-PB



MSN12-12D-PB



MSN21-C16-PB



MSN21-11D



MSN21-25D-PB

Moulded Metal Enclosure

MSN IP40



MSN35-C35



MSN35-C35-PB



MSN65-C65-PB



MSN100-45D-PB



MSN150-C150-PB

Non-reversing starters - enclosed

With differential overload relay , 1 N/O + 1 N/C auxiliary contacts(NTH) , 1 N/O + N/C(1com) auxiliary contacts(TH)

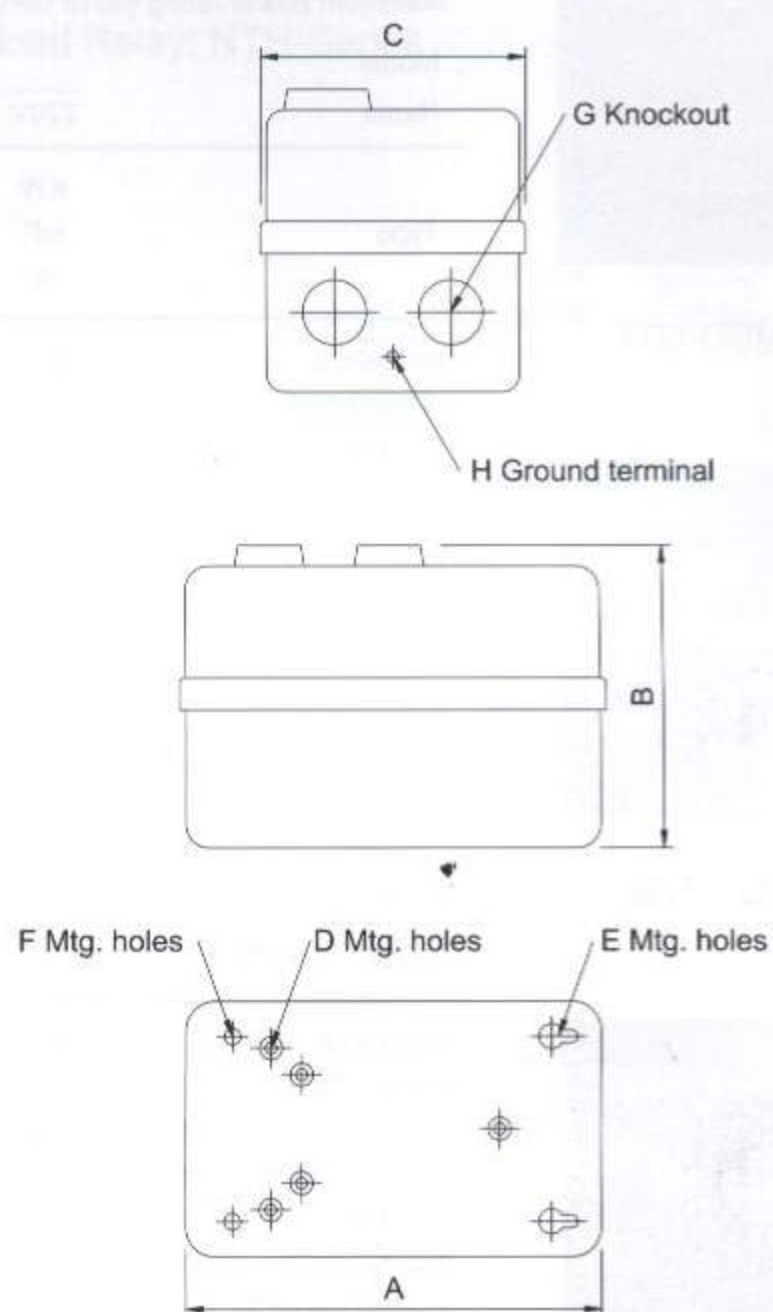
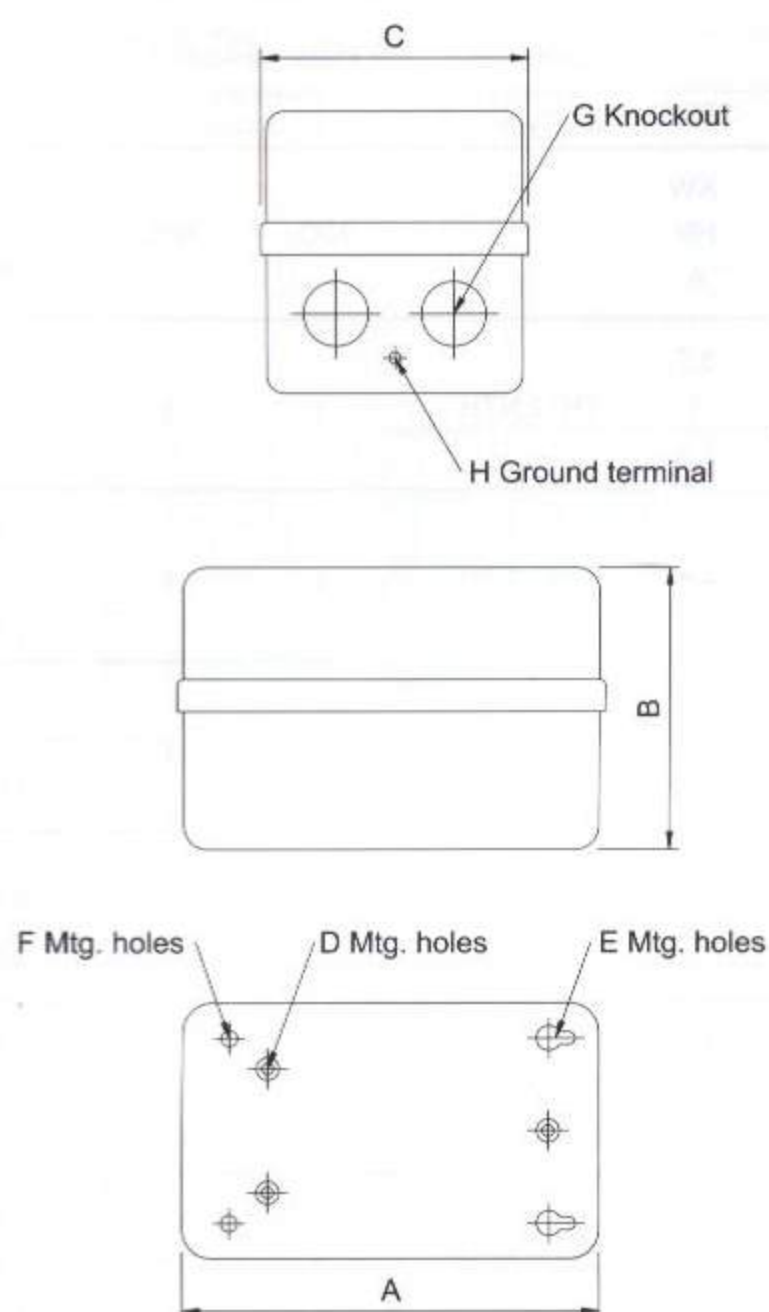
Maximum power rating (50 or 60HZ)

Model Name	3-phase				Overload Relay Type	Instantaneous Auxiliary Contacts		Weight Kg
	220V	380V	440V	575V		N/O	N/C	
Type	KW HP A	KW HP A	KW HP A	KW HP A				
MSN35-C35	9	15	15	15	TH20	2	2	2.260
MSN35-C35-PB	12.5	20	20	20				2.234
	35	27	25	22				
MSN35-25D	7.5	15	15	15	TH20.NTH	1	-	1.950
MSN35-25D-PB	10	20	20	20				2.070
	30	30	30	25				
MSN35-35D	11	19	19	19	TH20.NTH	1	-	1.950
MSN35-35D-PB	15	25	25	25				2.070
	42	39	36	29				
MSN65-C50	13	24	24	24	TH60	2	2	3.140
MSN65-C50-PB	17.5	32	32	32				3.440
	50	44	41	35				
MSN65-C60	15	30	30	30	TH60	2	2	3.140
MSN65-C60-PB	20	40	40	40				3.445
	58	56	54	45				
MSN65-C65	19	37	37	37	TH60	2	2	4.090
MSN65-C65-PB	25	50	50	50				4.240
	67	63	60	52				
MSN65-C80	22	44	44	44	TH60	2	2	4.090
MSN65-C80-PB	30	60	60	60				4.240
	85	80	75	64				
MSN100-C100	30	60	60	60	TH120	2	2	6.280
MSN100-C100-PB	40	80	80	80				6.430
	110	90	85	72				
MSN100-C125	37	75	75	75	TH120	2	2	6.280
MSN100-C125-PB	50	100	100	100				6.430
	135	130	120	105				
MSN100-45D	15	30	30	30	NTH	1	1	3.980
MSN100-45D-PB	20	40	40	40				4.130
	55	64	52	46				
MSN100-55D	19	33	33	33	NTH	1	1	3.980
MSN100-55D-PB	25	45	45	45				4.130
	65	68	57	50				
MSN100-65D	22	37	37	37	NTH	1	1	3.980
MSN100-65D-PB	30	50	50	50				4.130
	75	72	64	53				
MSN100-80D	25	45	55	55	NTH	1	1	4.190
MSN100-80D-PB	35	60	75	75				4.330
	90	85	95	72				
MSN100-100D	30	55	55	60	NTH	1	1	4.190
MSN100-100D-PB	40	75	75	80				4.330
	105	105	95	76				
MSN150-C150-PB	44	93	93	93	TH120	2	2	8.950
	60	125	125	125				
	150	165	155	130				

Enclosure of Motor Starters

MSN IP40

Dimensions(mm)



Model Name	Dimensions (mm)								Model Name	Dimensions (mm)							
	A	B	C	D	E	F	G	H		A	B	C	D	E	F	G	H
MSN11	137	90	66	4	4.5	4.5	22	4	MSN12-PB	141	103	90	4	4.5	6	22	4
MSN12	141.5	97	90	4	4.5	6	22	4	MSN21-PB	166	120	100	4	5	6	22	4
MSN21	166	113	100	4	5	6	22	4	MSN35-PB	225	139	129	5	6	6	28	5
MSN35	225	132	129	5	6	6	28	5	MSN65-PB	265	153	152	5	6	6	35	5
MSN65	265	147	152	5	6	6	35	5	MSN100-PB	298	177	190	5	7	7.5	35	5
MSN100	298	170	190	5	7	7.5	35	5	MSN150-PB	350	177	230	6	8	8	55	6

Moulded Metal Enclosure

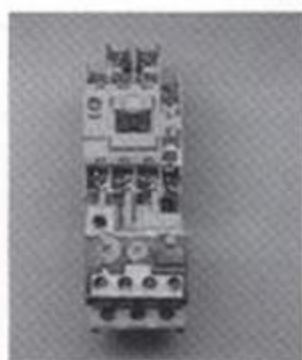
MSN IP40

Non-reversing starters - enclosed and open type

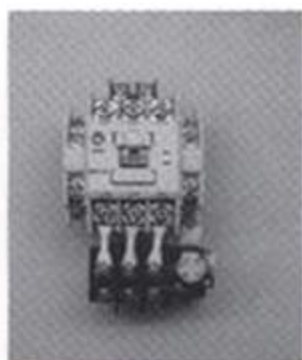
With differential overload relay , 1 N/O + N/C(1com) auxiliary contacts

Maximum power rating (50 or 60HZ)

Model Name	3-phase				Overload Relay Type	Instantaneous Auxiliary Contacts		Weight Kg
	220V	380V	440V	575V		N/O	N/C	
Type	KW HP A	KW HP A	KW HP A	KW HP A				
MSO-S09	2.2	3.7	3.7	3.7	TH12,NTH	1	1	0.500
MSN12-S09	3	5	5	5				0.788
MSN12-S09-PB	9	9	8	6.5				0.913
MSO-S12	3	5.5	5.5	5.5	TH12,NTH	1	1	0.500
MSN12-S12	4	7.5	7.5	7.5				0.788
MSN12-S12-PB	12	12	11	9				0.913
MSN21-S09	2.2	3.7	3.7	3.7	TH12,NTH	1	1	0.970
MSN21-S09-PB	3	5	5	5				1.045
	9	9	8	6.5				
MSN21-S12	3	5.5	5.5	5.5	TH12,NTH	1	1	0.970
MSN21-S09-PB	4	7.5	7.5	7.5				1.045
	12	12	11	9				
MSO-S18	3.7	7.5	7.5	7.5	TH20,NTH	1	1	0.510
MSN21-S18	5	10	10	10				0.980
MSN21-S18-PB	15	15	14	13				1.055
MSO-S22	5.5	22	11	11	TH20,NTH	1	1	0.510
MSN21-S22	7.5	15	15	15				0.980
MSN21-S22-PB	22	22	21	16				1.055
MSO-S32	7.5	15	15	15	TH20,NTH	2	2	0.620
MSN35-S32	10	20	20	20				1.575
MSN35-S32-PB	32	32	30	25				1.695
MSO-S40	11	19	19	19	TH20,NTH	2	2	0.620
MSN35-S40	15	25	25	25				1.575
MSN35-S40-PB	42	42	36	29				1.695
MSO-S50	15	30	30	30	TH60,NTH	2	2	1.727
MSN65-S50	20	40	40	40				3.355
MSN65-S50-PB	55	55	52	46				3.505
MSO-S65	19	33	33	33	TH60,NTH	2	2	1.727
MSN65-S65	25	45	45	45				3.355
MSN65-S65-PB	65	65	57	50				3.505
MSN100-S65	19	33	33	33	TH60,NTH	2	2	4.124
MSN100-S65-PB	25	45	45	45				4.274
	65	65	57	50				
MSO-S75	22	37	37	37	TH120,NTH	2	2	1.790
MSN100-S75	30	50	50	50				4.187
MSN100-S75-PB	80	80	64	53				4.337
MSO-S85	25	45	45	55	TH120,NTH	2	2	1.790
MSN100-S85	35	60	60	75				4.187
MSN100-S85-PB	105	105	80	75				4.337



MSO-S09



MSO-S32



MSN21-S22-PB



MSN35-S32



MSN65-S65-PB

Accessories

4 Pole contactors

Model Designation

C-12D22G7
1 2 3

1.Type

09D 11D 12D 25D

2.Contacts

09D	11D	12D	25D
40	4a	40	4a
22	2a2b	22	2a2b
04	4b		

3.Coil Control Voltage

Detail page 1-1



C-12D22

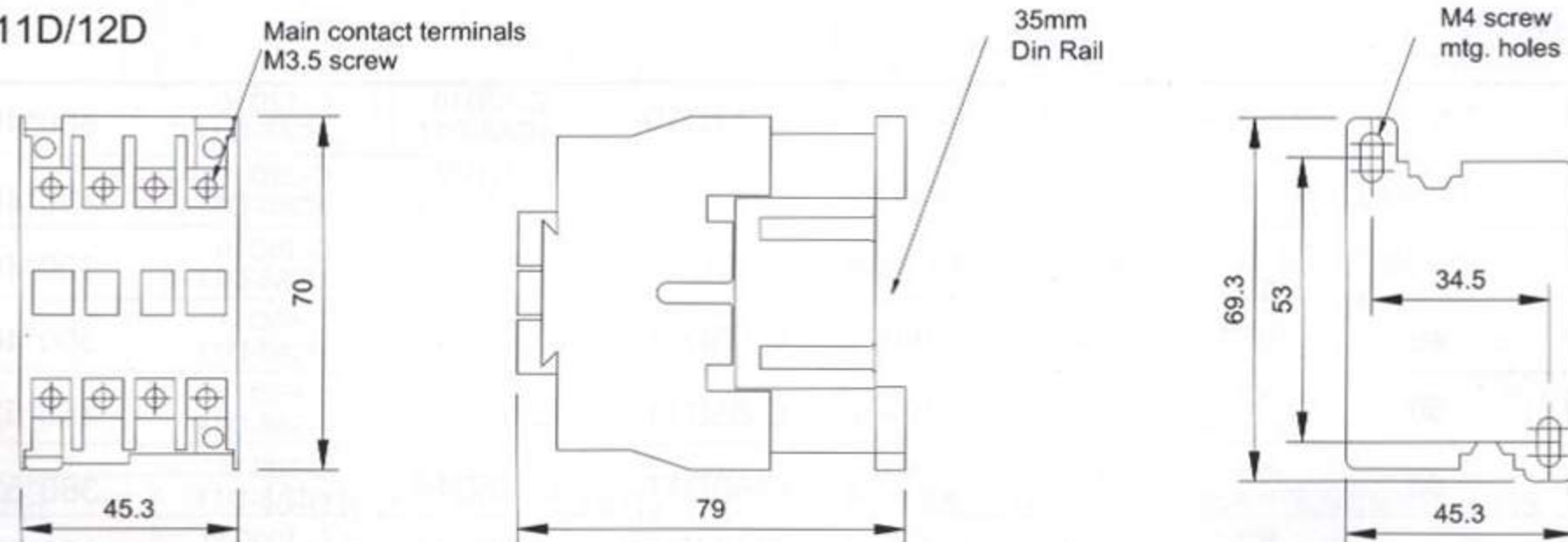


C-25D22

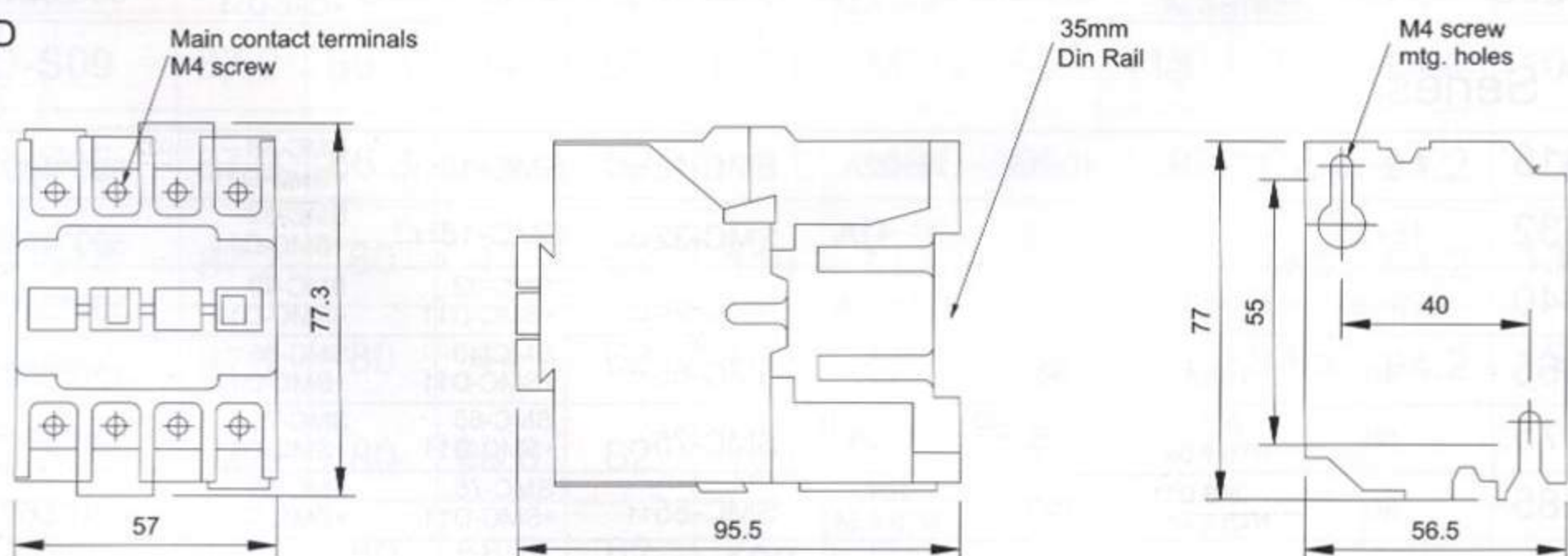
Model	Contacts		Insulation	AC1 duty	AC3	Weight
Name	N/O	N/C	Voltage	$q \leq 40^\circ\text{C}$	Ie	Kg
C-09D40	4	-	1000V	20A	9A	0.326
C-09D22	2	2	1000V	20A	9A	0.326
C-09D04	-	4	1000V	20A	9A	0.326
C-11D40	4	-	1000V	25A	12A	0.326
C-11D22	2	2	1000V	25A	12A	0.326
C-11D04	-	4	1000V	25A	12A	0.326
C-12D40	4	-	1000V	25A	16A	0.326
C-12D22	2	2	1000V	25A	16A	0.326
C-12D04	-	4	1000V	25A	16A	0.326
C-25D40	4	-	1000V	40A	32A	0.525
C-25D22	2	2	1000V	40A	32A	0.525

Dimensions(mm)

C-09D/11D/12D



C-25D



Accessories

Control relays and auxiliary contact blocks

Model Designation

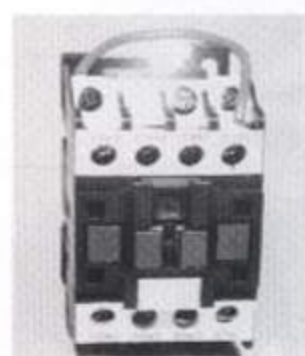
CR2-1040G7

1 2 3

Note: rated 20A max at 600Vac
general use and 7.5HP max
at 575Vac 3Phase



CR2-1022



CR2-2030



CA1-D11



CA6-D11



CA8-D11



CA9-D02

1.Type

10	control circuit AC
20	control circuit DC

2.Contacts

10		20	
40	4a	30	3a
22	2a2b	12	1a2b
31	3a1b	21	2a1b
13	1a3b	03	3b
04	4b		

3.Coil Control Voltage

Detail page 1-1

Model	Contacts		Insulation	Thermal	Weight	Approval
Name	N/O	N/C	Voltage	Current	Kg	
CR2-1040	4	-	660V	20A	0.335	SP CE
CR2-1031	3	1	660V	20A	0.335	SP CE
CR2-1022	2	2	660V	20A	0.335	SP CE
CR2-1013	1	3	660V	20A	0.335	SP CE
CR2-1004	0	4	660V	20A	0.335	SP CE
CR2-2030	3	-	660V	20A	0.340	SP CE
CR2-2021	2	1	660V	20A	0.340	SP CE
CR2-2012	1	2	660V	20A	0.340	SP CE
CR2-2003	-	3	660V	20A	0.340	SP CE

Auxiliary contact blocks

CA1-D11

1 2

Note: Rated 10A max at 600Vac
Ui:600V
Ith:10A

1.Series

CA1	Top mtg.
CA6	Top mtg.
CA8	Side mtg.
CA9	Mechanical Interlock

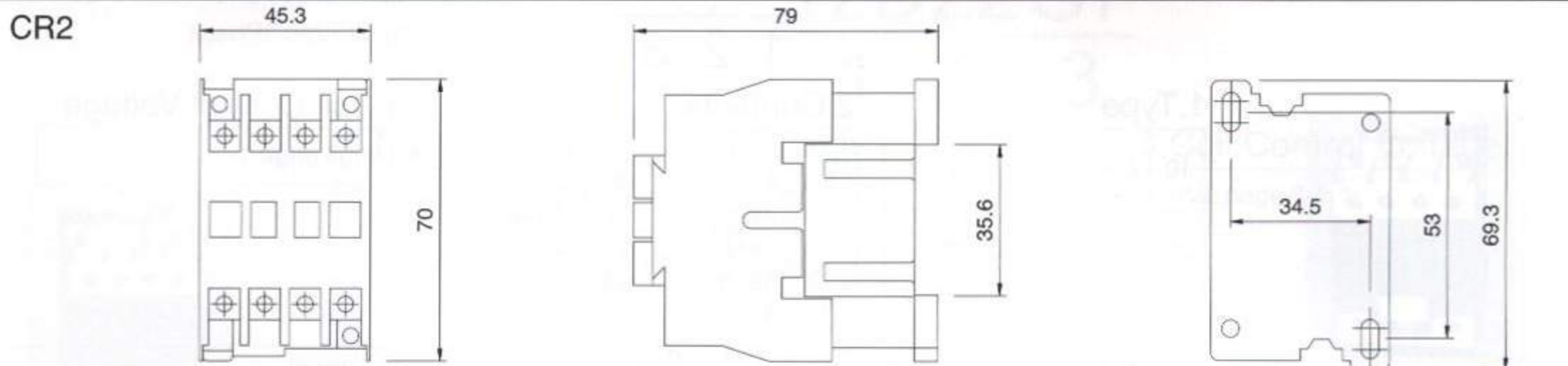
2.Contacts

20	2a	31	3a1b
11	1a1b	13	1a3b
02	2b	22	2a2b
40	4a	04	4b

Model	Applicable	Auxiliary	Contacts	Insulation	Thermal	Weight	Approval
Name	Contactor	N/O	N/C	Voltage	Current	Kg	
CA1-D20	C-09D to C-100D11	2	-	660V	10A	0.033	SP CE
CA1-D11	C-09D to C-100D11	1	1	660V	10A	0.033	SP CE
CA1-D02	C-09D to C-100D11	-	2	660V	10A	0.033	SP CE
CA1-D40	C-09D to C-100D11	4	-	660V	10A	0.059	SP CE
CA1-D31	C-09D to C-100D11	3	1	660V	10A	0.059	SP CE
CA1-D22	C-09D to C-100D11	2	2	660V	10A	0.059	SP CE
CA1-D13	C-09D to C-100D11	1	3	660V	10A	0.059	SP CE
CA1-D04	C-09D to C-100D11	-	4	660V	10A	0.059	SP CE
CA6-D20	C-06D	2	-	660V	10A	0.032	CE
CA6-D11	C-06D	1	1	660V	10A	0.032	CE
CA6-D02	C-06D	-	2	660V	10A	0.032	CE
CA6-D40	C-06D	4	-	660V	10A	0.032	CE
CA6-D31	C-06D	3	1	660V	10A	0.032	CE
CA6-D22	C-06D	2	2	660V	10A	0.032	CE
CA6-D13	C-06D	1	3	660V	10A	0.032	CE
CA6-D04	C-06D	-	4	660V	10A	0.032	CE
CA8-D20	C-09D to C-100D11	2	-	660V	10A	0.035	SP CE
CA8-D11	C-09D to C-100D11	1	1	660V	10A	0.035	SP CE
CA8-D02	C-09D to C-100D11	-	2	660V	10A	0.035	SP CE
CA9-D02	C-09D to C-100D11	-	2	660V	10A	0.035	SP CE

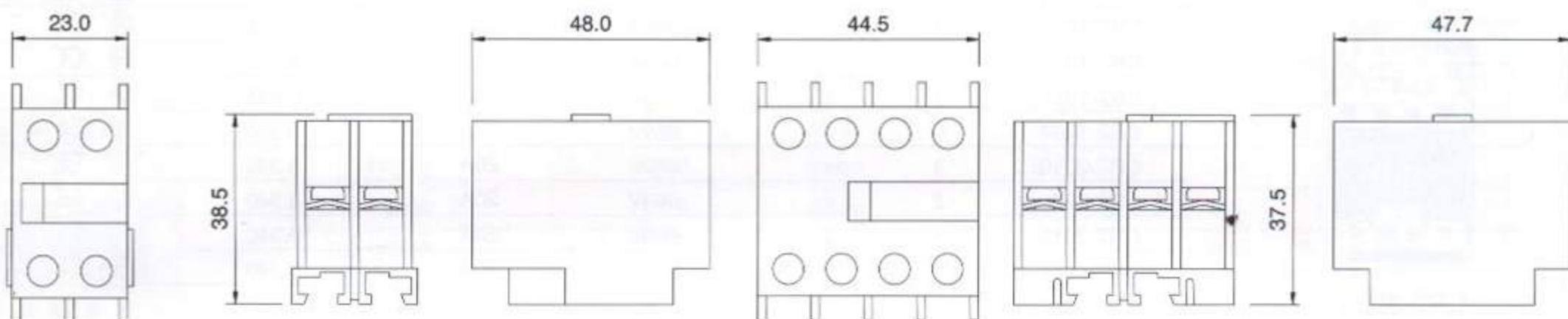
CR2/CA1/CA6/CA8/CA9

Dimensions(mm)



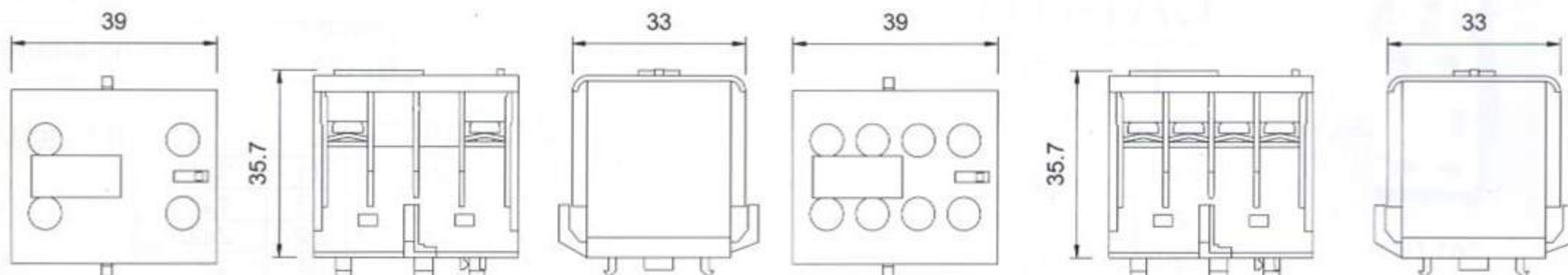
CA1-DXX(2P)

CA1-DXX(4P)

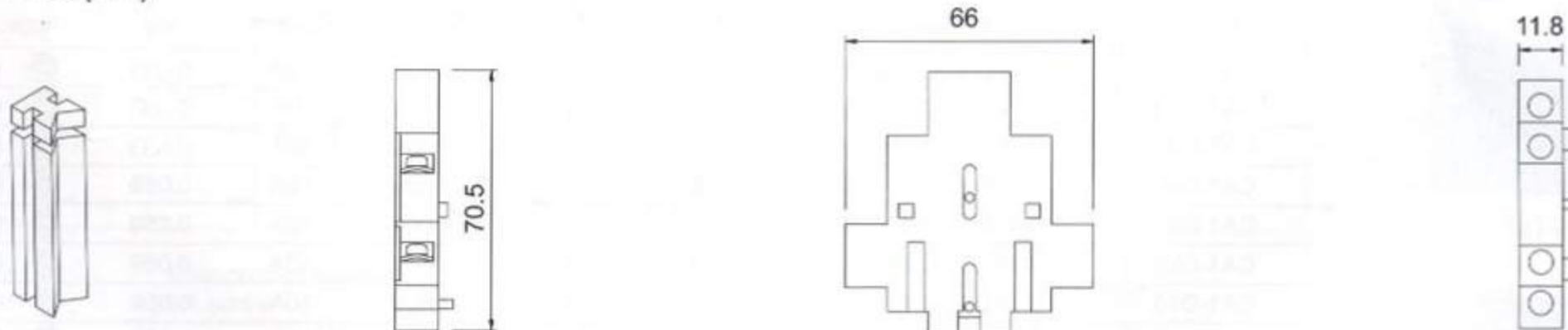


CA6-DXX(2P)

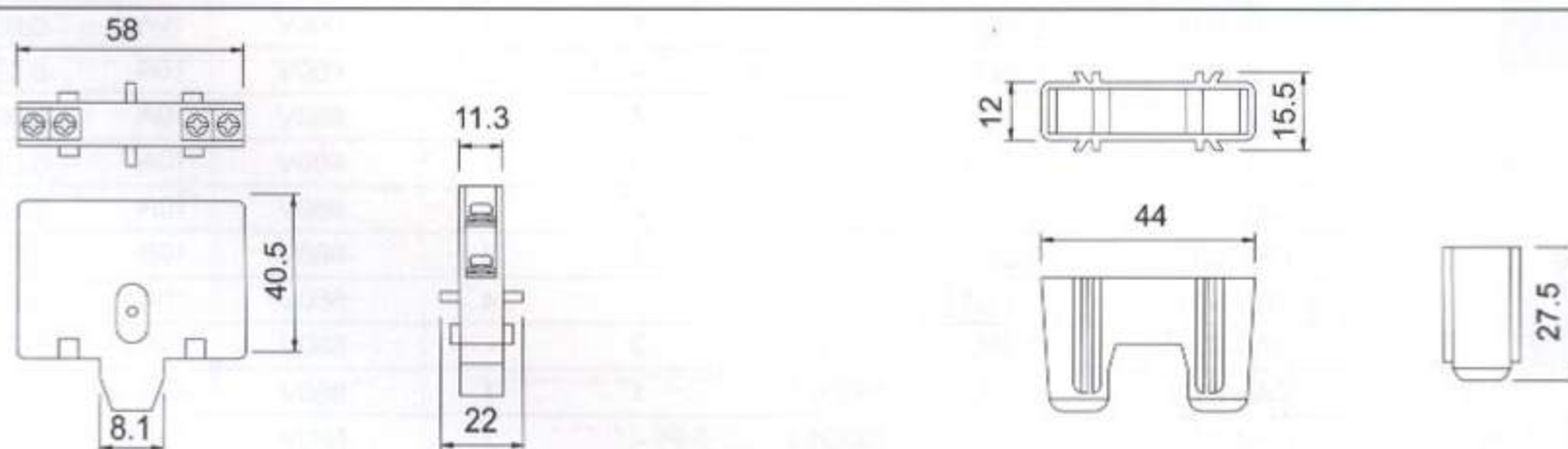
CA6-DXX(4P)



CA8-DXX(2P)



CA9-D02



Accessories

Coils for contactor

Model Designation

CL— $\frac{09DG7}{1 \quad 2}$

1.Type

C	09D	25D	45D	80D	09DC	25DC	45DC	80DC	
S	C11	C12	C21	C35	C50	C65	C100	C150	C220
AC	201	202	203	204					
SMC	09	50							

2.Coil Control Voltage

Detail Papg 1-1



CL-09D



CL-45D



CL-C11



CL-C100



CL-202

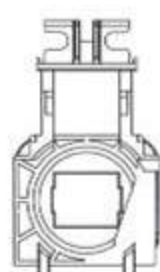


CL-203

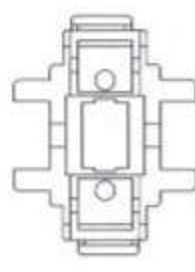


CL-S50

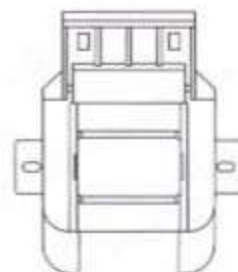
Model Name	Applicable Contactors	Weight Kg.
CL-06D	C-06D	0.035
CL-09D	C-09D~C-18D	0.060
CL-25D	C-25D~C-35D	0.070
CL-45D	C-45D~C-65D	0.100
CL-80D	C-80D~C-100D	0.105
CL-09DC	C-09DC~C-18DC	0.062
CL-25DC	C-25DC~C-35DC	0.072
CL-45DC	C-45DC~C-65DC	0.102
CL-80DC	C-80DC~C-100DC	0.102
CL-C11	S-C11	0.044
CL-C12	S-C12~S-C16	0.038
CL-C21	S-C21	0.082
CL-C35	S-C35	0.125
CL-C50	S-C50~S-C60	0.130
CL-C65	S-C65~S-C80	0.152
CL-C100	S-C100~S-C125	0.200
CL-C150	S-C150	0.440
CL-C220	S-C220	0.940
CL-201	AC201~AC501	0.047
CL-202	AC202~AC502	0.036
CL-203	AC203~AC503	0.042
CL-204	AC204~AC504	0.069
CL-S09	SMC09~SMC40	0.077
CL-S50	SMC50~SMC85	0.133



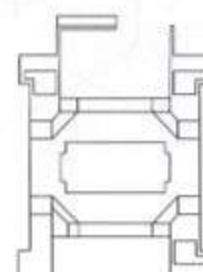
CL-S09



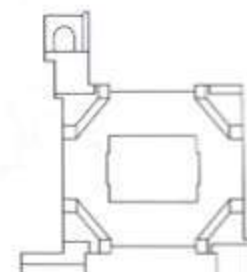
CL-202



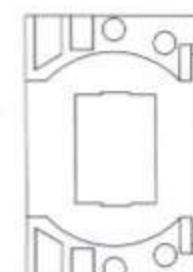
CL-204



CL-09D



CL-25D



CL-45D

Accessories

Moulded Plastic Enclosure(MS1 IP65)

Model Designation

MS109D—01G—C
1 2 3 4

1.Type

MS1	Enclosure with push button
MS	Enclosure without push button

2.Item

09D	09D 11D 12D
18D	18D
25D	25D
35D	35D

4.Cover Model

none	Empty
C	Normal

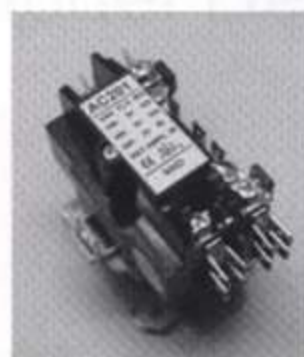
3.Part Number

1P	Starter contact	05	Plastic screw for combine
01	Cover	06	Waterproof rubber
01N	Lock cover	07	Seal packing
01G	Start cover only	08	Neutral/Protective conductor bar
01S	Stop cover only	09	Iron plate for install
01R	Reset cover only	13A	Iron plate for start
02	Pedestal	13B	Iron plate for stop
03	Start push button	13N	Iron plate for stop(NTH)
03N	Lock start push button	13RN	Plate for 13N
04	Stop push button	16	Spring
04R	Reset push button	22	Rubber

Definite Purpose Contactors

1 Pole 、 2 Pole 、 3 Pole and 4 Pole

CONTROL CIRCUIT : AC



AC201



AC202



AC202



AC203



AC204



AC204

Definite purpose contactors are ideal for air conditioning, refrigeration, Heating, Lighting, pools, spas and food service equipment.

Model Name	Line & Load Terminals	Number of Poles	Full Load Amps	Locked Rotor Amps			Resistive Amperes Per Pole	Weight Kg	Approval
				240V	480V	600V			
AC201	Screw/Box lug	1/+Shunt	20	120	100	80	30	0.265	
AC202		2						0.282	
AC203		3						0.440	
AC204		4						0.520	
AC251	Screw/Box lug	1/+Shunt	25	120	12	100	35	0.265	
AC252		2						0.282	
AC253		3						0.440	
AC254		4						0.520	
AC301	Screw/Box lug	1/+Shunt	30	180	150	120	40	0.265	
AC302		2						0.282	
AC303		3						0.440	
AC304		4						0.520	
AC401	Box lug/Screw	1/+Shunt	40	240	200	160	50	0.330	
AC402		2						0.347	
AC403		3						0.505	
AC404		4						0.585	
AC501	Box lug/Screw	1/+Shunt	50	300	250	200	60	0.330	
AC502		2						0.347	
AC503		3						0.505	
AC504		4						0.585	

Model Designation

AC 203A5
 1 2 3 4

1-Air Conditioning

2-Full Load Amps

3-1 Pole 、 2 Pole 、 3 Pole or 4 Pole

4-Coil Voltage

Coil Table

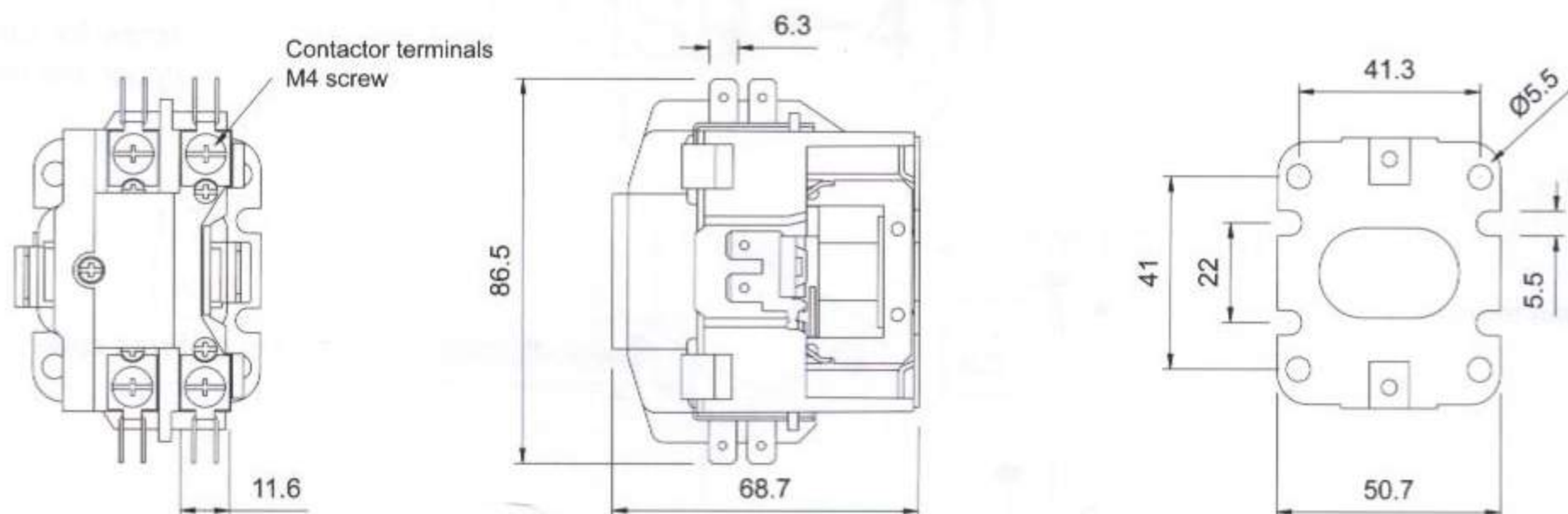
Coil control voltage:	24V	48V	110V	120V	190V	220V	230V	240V	380V	415V	440V	480V
50Hz	A5	C5	D5	E5	F5	G5	H5	I5	J5	L5	M5	N5
60Hz	A6	C6	D6	E6	F6	G6	H6	I6	J6	L6	M6	N6

Definite Purpose Contactors

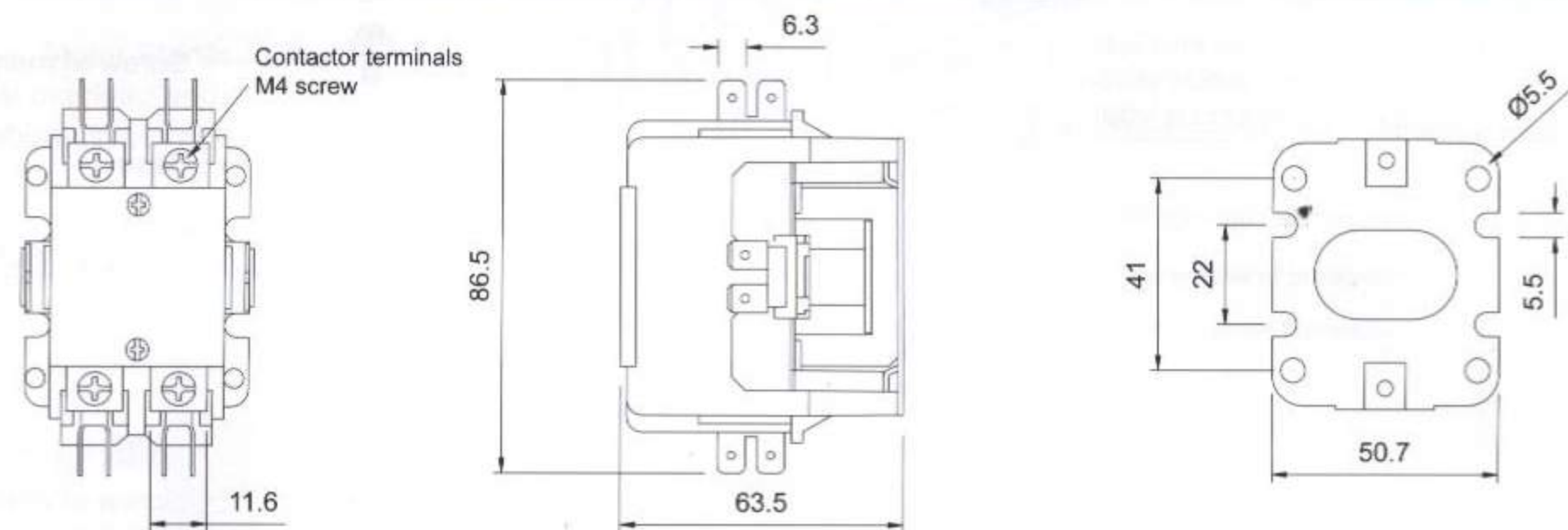
1 Pole 、 2 Pole 、 3 Pole and 4 Pole

Dimensions(mm)

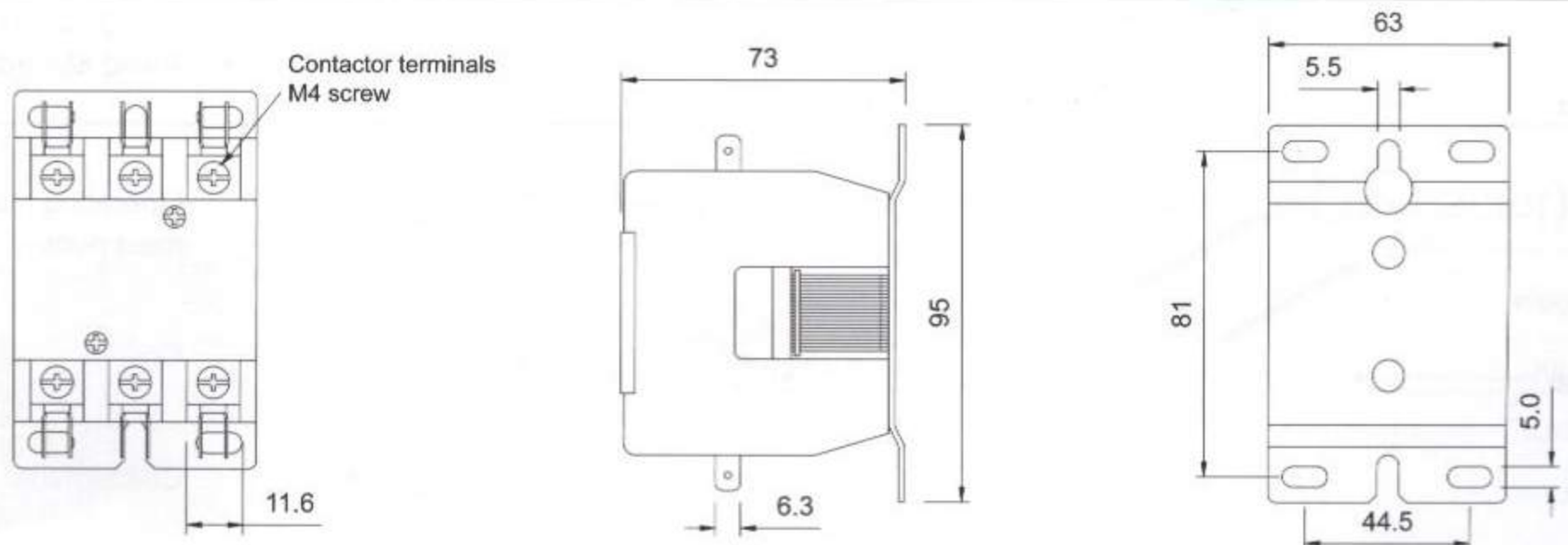
1 Pole



2 Pole



3 Pole



4 Pole

