





Magnetic Contactor /Starters

Thermal Over Load Relay

Model Name and Ratings

Model Image													
Section	Model Name	COR 10			COR 20			COR 35			COR 80		
	Heater Designation	Setting Range			Setting Range			Setting Range			Setting Range		
Rated Current (A)	0.125	0.1	0.125	0.15	0.1	0.125	0.15						
	0.2	0.15	0.2	0.24	0.15	0.2	0.24						
	0.3	0.24	0.3	0.36	0.24	0.3	0.36						
	0.45	0.36	0.45	0.54	0.36	0.45	0.54						
	0.6	0.48	0.6	0.72	0.48	0.6	0.72						
	1	0.8	1	1.2	0.8	1	1.2						
	1.2	0.95	1.2	1.45	0.95	1.2	1.45						
	1.8	1.4	1.8	2.2	1.4	1.8	2.2						
	2.2	1.7	2.2	2.6	1.7	2.2	2.6						
	2.8	2.2	2.8	3.4	2.2	2.8	3.4						
	3.5	2.9	3.7	4.2	2.8	3.5	4.2						
	5	4	5	6	4	5	6	4	5	6			
	6.5	5	6.5	8	5	6.5	8	5	6.5	8			
	9	7	9	11	7	9	11	7	9	11			
	11	9	12	13	9	11	13	9	11	13			
	15				12	15	18	12	15	18	12	15	18
	22							18	22	26	18	22	26
	29							24	29	34	24	29	34
	35							30	35	40	30	35	40
	40										34	40	50
56										43	56	65	
67										54	67	80	
83										65	83	100	
Number of Poles	2poles	Standard			Standard			Standard			Standard		
	3poles	Optional			Optional			Optional			Optional		
Auxiliary Contact		1a1b			1a1b			1a1b			1a1b		
Reset Type		Manual/Automatic			Manual/Automatic			Manual/Automatic			Manual/Automatic		
Power Capacity(VA)		1.8VA/pole			1.8VA/pole			2.0VA/pole			3.5VA/pole		
Applied Model		COK 10			COK 20			COK 35			COK 80		
Magnetic Contactor Combined		CMC 10/15			CMC 20/21			CMC 25/35			CMC 50/65/80		
Motor Starters Combined		CMS 10/15			CMS 20/21			CMS 25/35			CMS 50/65/80		

Section	Model Name	COR 100			COR 150			COR 220		
	Heater Designation	Setting Range			Setting Range			Setting Range		
Rated Current (A)	41	34	41	50	34	41	50			
	48	39	48	57	39	48	57			
	56	43	56	65	43	56	65			
	67	54	67	80	54	67	80			
	80	65	80	100	65	80	100	65	80	100
	107	85	107	125	85	107	125	85	107	125
	130				100	130	150	100	130	160
	150							120	150	180
	200							160	200	240
	Number of Poles	2poles	Standard			Standard			Standard	
3poles		Optional			Optional			Optional		
Auxiliary Contact		1a1b			1a1b			1a1b		
Reset Type		Manual/Automatic			Manual/Automatic			Manual/Automatic		
Power Capacity(VA)		2.3VA/pole			2.3VA/pole			2.3VA/pole		
Applied model		COR 100/3			COR 150/3			COR 220/3		
Phase Failure		COK 100			COK 150			COK 220		
Magnetic Contactor Combined		CMC 100/125			CMC 150			CMC 180/220		
Motor Starters Combined		CMS 100/125			CMS 150			CMS 180/220		




Selection Guide

Three phase motor max-power				COR 10	COR 20	COR 35	COR 80	COR 100	COR 150	COR 220
4P 440V 60Hz		4P 220V 60Hz								
P(kW)	In(A)	P(kW)	In(A)							
0.1	0.36			0.1~0.15	0.1~0.15					
				0.15~0.24	0.15~0.24					
				0.24~0.36	0.24~0.36					
				0.36~0.54	0.36~0.54					
0.2	0.7	0.1	0.71	0.48~0.72	0.48~0.72					
				0.64~0.96	0.64~0.96					
				0.8~1.2	0.8~1.2					
				0.95~1.45	0.95~1.45					
0.75	1.8			1.4~2.2	1.4~2.2					
				1.7~2.6	1.7~2.6					
				2.2~3.4	2.2~3.4					
				2.8~4.2	2.8~4.2					
1.5	3.3	0.75	3.6	4~6	4~6	4~6				
				5~8	5~8	5~8				
				6~9	6~9	6~9				
				7~11	7~11	7~11				
3.7	7.5	2.2	9.2	9~13	9~13	9~13				
				12~18	12~18	12~18				
				18~26	18~26	18~26				
				24~34	24~34	24~34				
5.5	11	3.7	15	30~40	30~40	30~40				
				34~50	34~50	34~50				
				39~57	39~57	39~57				
				43~65	43~65	43~65				
7.5	15			43~65	43~65	43~65				
				54~80	54~80	54~80				
				65~100	65~100	65~100				
				85~125	85~125	85~125				
15	28	7.5	29	65~100	65~100	65~100	65~100			
				85~125	85~125	85~125	85~125			
				100~150	100~150	100~150	100~150			
				120~180	120~180	120~180	120~180			
18.5	34			160~240	160~240	160~240	160~240			
				180~240	180~240	180~240	180~240			
				200~240	200~240	200~240	200~240			
				220~240	220~240	220~240	220~240			

Magnetic Contactor /Starters

Thermal Over Load Relay

■ Model Name and Ratings

Model Image										
Section	Model Name	COR 22			COR 40			COR 85		
	Heater Designation	Setting Range			Setting Range			Setting Range		
Rated Current (A)		MIN	MID	MAX	MIN	MID	MAX	MIN	MID	MAX
	0.14	0.1	0.14	0.16						
	0.21	0.16	0.21	0.25						
	0.33	0.25	0.33	0.4						
	0.52	0.4	0.52	0.63						
	0.82	0.63	0.82	1						
	1.3	1	1.3	1.6						
	2.1	1.6	2.1	2.5						
	3.3	2.5	3.3	4						
	5	4	5	6	4	5	6			
	6.5	5	6.5	8	5	6.5	8			
	7.5	6	7.5	9	6	7.5	9			
	8.5	7	8.5	10	7	8.5	10	7	8.5	10
	11	9	11	13	9	11	13	9	11	13
	15	12	15	18	12	15	18	12	15	18
	19	16	19	22	16	19	22	16	19	22
	22				18	22	26	18	22	26
30				24	30	36	24	30	36	
34				28	34	40	28	34	40	
42							34	42	50	
55							45	55	65	
65							54	65	75	
74							63	74	85	
Number of Poles	2 poles	Standard			Standard			Standard		
	3 poles	Optional			Optional			Optional		
Auxiliary Contact	1a1b			1a1b			1a1b			
Reset Type	Manual/Automatic			Manual/Automatic			Manual/Automatic			
Power Capacity(VA)	1.8VA/pole			2.0VA/pole			3.5VA/pole			
Separate mounting unit	IU-22			IU-40			IU-85			
Applied	3 pole	COR 22/3			COR 40/3			COR 85/3		
Model	Phase Failure	COK 22			COK 40			COK 85		
Magnetic Contactor combined		CMC 9N / 12N / 18N / 22N			CMC 32N / 40N / 48N			CMC 50N / 65N / 75N / 85N		
Motor Starters Combined		CMS 9N / 12N / 18N / 22N			CMS 32N / 40N / 48N			CMS 50N / 65N / 75N / 85N		

■ Selection Guide

Three phase motor max-power				COR 22	COR 40	COR 85
4P 440V 60Hz		4P 220V 60Hz				
P(kW)	In(A)	P(kW)	In(A)			
				0.1~0.16		
				0.16~0.25		
0.1	0.36			0.25~0.4		
				0.4~0.63		
0.2	0.7	0.1	0.71	0.63~1		
		0.2	1.4	1~1.6		
0.75	1.8	0.4	2.3	1.6~2.5		
1.5	3.3	0.75	3.6	2.5~4		
2.2	4.6			4~6	4~6	
		1.5	6.5	5~8	5~8	
3.7	7.5			6~9	6~9	
		2.2	9.2	7~10	7~10	7~10
5.5	11			9~13	9~13	9~13
7.5	15	3.7	15	12~18	12~18	12~18
				16~22	16~22	16~22
11	21	5.5	22		18~26	18~26
15	28	7.5	29		24~36	24~36
18.5	34				28~40	28~40
22	39	11	42			34~50
30	54	15	55			45~65
37	66	18.5	67			54~75
						63~85

Magnetic Contactor /Starters



Definite Purpose Contactors

Model	Continuous Current(A) Ith(A)	Rated Operational Current(A)		Performance			Standard coil voltage(V)	Contact Component
		110V	220V	Switching Frequency	Electrical(x10000)	Mechanical(x10000)		
CMR 20	30	25	25	1800	20	100	AC 24V AC 110V AC 220V DC 12V	2a

Definite Purpose Contactors



Model	Pole	Contact Component	Application Contactor
CAU-2	2	2a, 1a1b, 2b	CMC 9N~85N
CAU-4	4	4a, 3a1b, 2a2b, 1a3b, 4b	CMC 10~80



Model	Pole	Contact Component	Application Contactor
CAU-1	2	1a1b	CMC 9N~85N
CAU-100	2	1a1b	CMC 100~220

Definite Purpose Contactors

Type		Rated Operational Current(A)																Continuous Current(Ith)
		AC15(11)				DC13(11)				AC12(11)				DC12(14)				
		110V	220V	440V	550V	24V	48V	110V	220V	110V	220V	440V	550V	24V	48V	110V	220V	
Head-on	CAU-2	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
	CAU-4	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
Side-on	CAU-1	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
	CAU-100	6	5	1.5	1.2	6	1.5	0.55	0.27	10	8	5	5	5	5	2.5	1	16

Definite Purpose Contactors

Type	Switching Frequency (Operation/Hour)	Mechanical Endurance (x10000)	Electrical Endurance(x10000)				
			AC15(11)		AC12(13)		DC13(11), 125(14)
			220V	440V	220V	440V	24~220V
CAU-2	1800	2000	50	50	25	25	50
CAU-4	1800	2000	50	50	25	25	50
CAU-1	1800	2500	50	50	25	25	50
CAU-100	1800	1000	50	50	25	25	50

Definite Purpose Contactors

Cheil magnetic motor and contactors are designed to conform to the relevant IEC recommendations and to the standards of as many countries as possible. Specifically, they conform to the following.

IEC60947-4-1 International / EN60947-4-1 Europe

TYPE	MODEL	Europe		U.S.A / UL	
		CE MARK	TÜV	Recognition	
				U.S.A 	Canada
Magnetic contact (AC control)	CMC 20-C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 25-C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 9N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 12N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 18N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 22N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 32N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 40N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 48N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 50N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 65N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 75N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 85N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 10	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 15	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 20	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 21	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	CMC 80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CMC 125	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 150	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 180	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMC 220	<input type="checkbox"/>	<input type="checkbox"/>	-	-
CMH 10	<input type="checkbox"/>	<input type="checkbox"/>	-	-	
CMH 20	<input type="checkbox"/>	<input type="checkbox"/>	-	-	
Magnetic contact (DC control)	CMD 9N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 12N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 18N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 22N	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 10	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 15	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 20	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 21	<input type="checkbox"/>	<input type="checkbox"/>	-	-
Thermal overload relay	CMD 25	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	CMD 35	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	COR 22	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	COR 40	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	COR 10	<input type="checkbox"/>	<input type="checkbox"/>	-	-
Contactor relay	COR 20	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	COR 35	<input type="checkbox"/>	<input type="checkbox"/>	-	-
	COR 80	<input type="checkbox"/>	<input type="checkbox"/>	-	-
CMR 4	<input type="checkbox"/>	<input type="checkbox"/>	-	-	

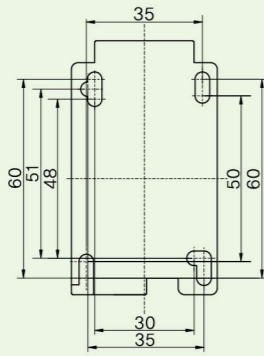
Notes
 ■ : CE Mark(Manufacturer's Declaration)=Standard model applicable, marking on the product.
 UL, TUV=Standard model applicable, marking on the product.

Magnetic Contactor /Starters

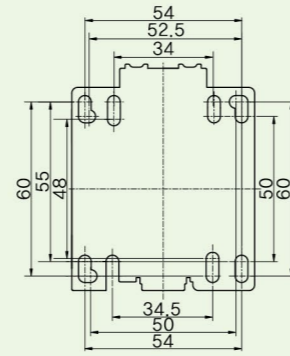
Dimensions

Magnetic Contactor

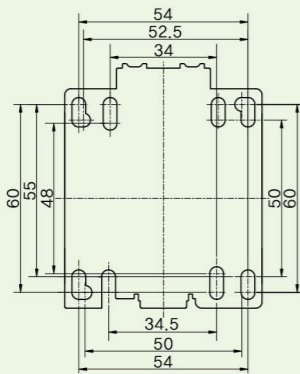
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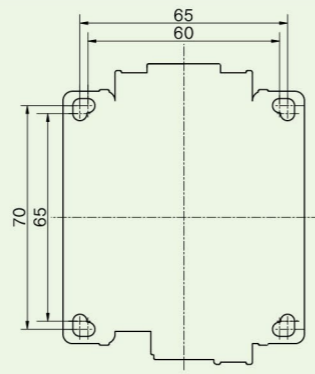
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CMC(D) 20



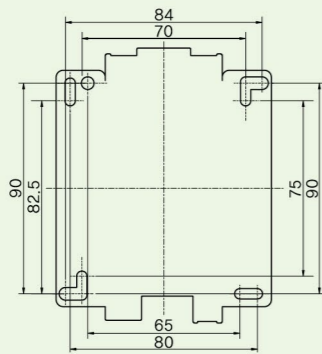
CMC(D) 21



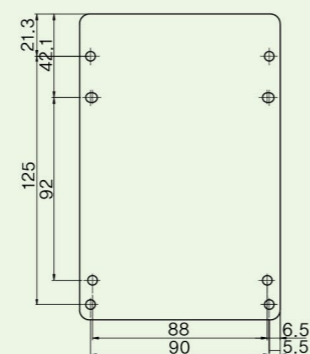
CMC(D) 25
CMC(D) 35
CMC(D) 48



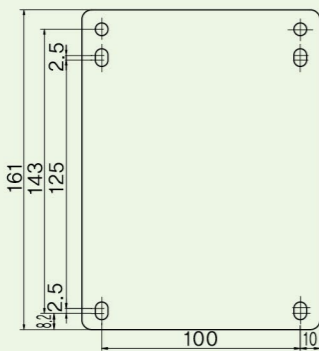
CMC 50
CMC 65
CMC 80



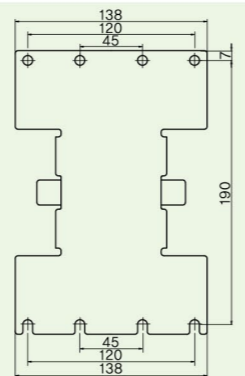
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CMC 125



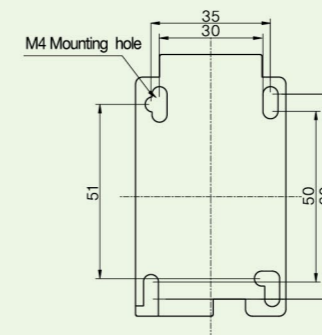
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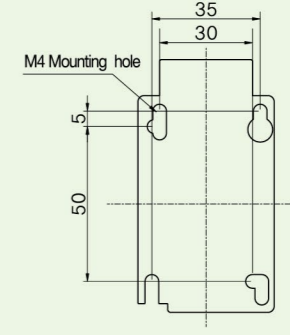
CMC 180
CMC 220



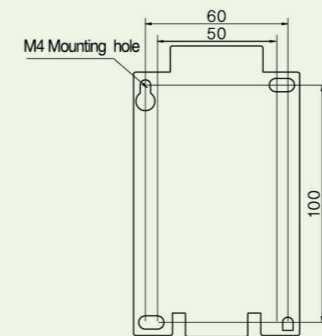
CMC 9N
CMC 12N
CMC 18N
CMC 22N



CMC 32N
CMC 40N
CMC 48N



CMC 50N
CMC 65N
CMC 75N
CMC 85N

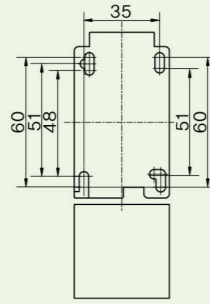


Magnetic Contactor /Starters

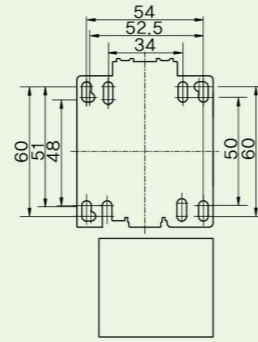
Dimensions

Motor Starters

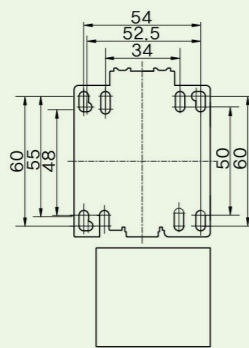
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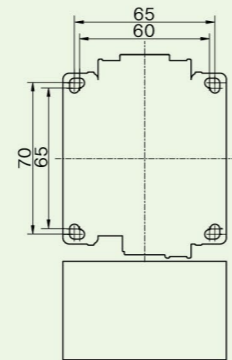
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CMS 20



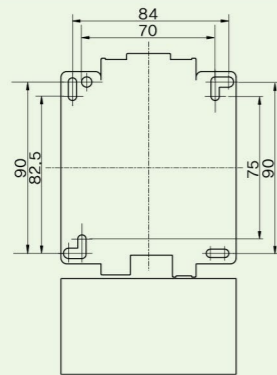
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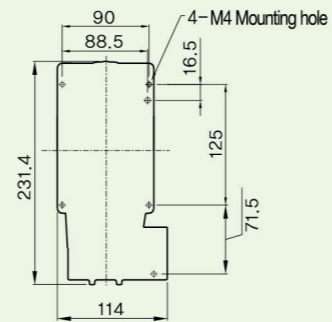
CMS 25
CMS 35
CMS 48



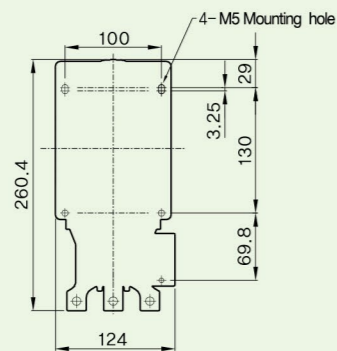
CMS 50
CMS 65
CMS 80



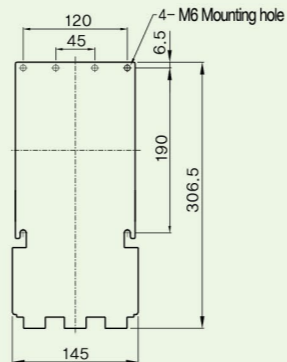
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CMS 125



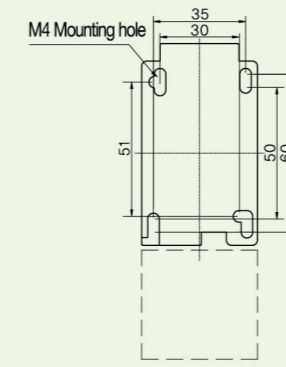
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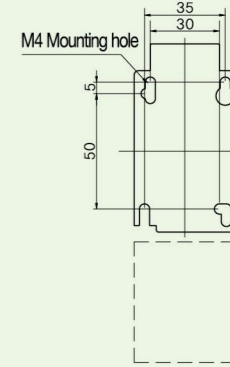
CMS 180
CMS 220



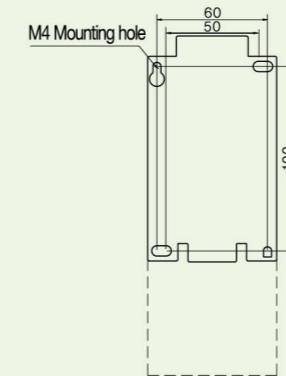
CMS 9N
CMS 12N
CMS 18N
CMS 22N



CMS 32N
CMS 40N
CMS 48N



CMS 50N
CMS 65N
CMS 75N
CMS 85N

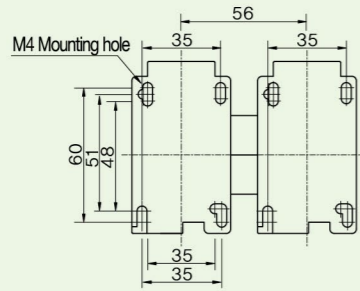


Magnetic Contactor /Starters

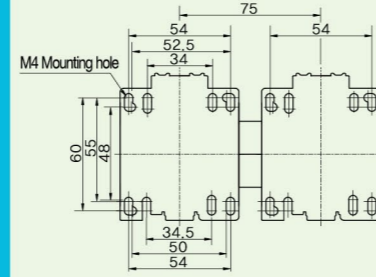
Dimensions

Reversing Comtactors

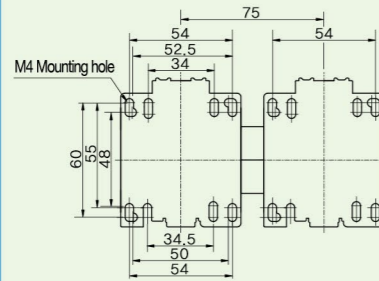
CMC 10-R



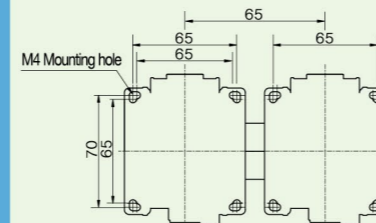
CMC 15-R
CMC 20-R



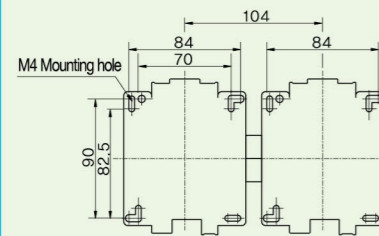
CMC 21-R



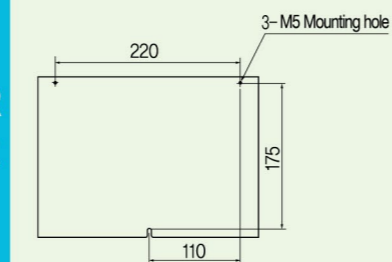
CMC 25-R
CMC 35-R



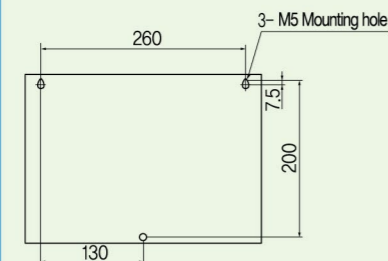
CMC 50-R
CMC 65-R
CMC 80-R



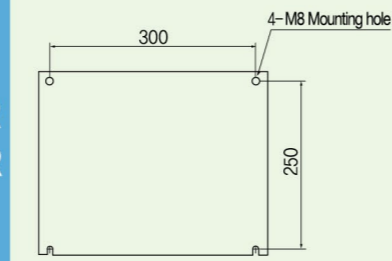
CMC 100-R
CMC 125-R



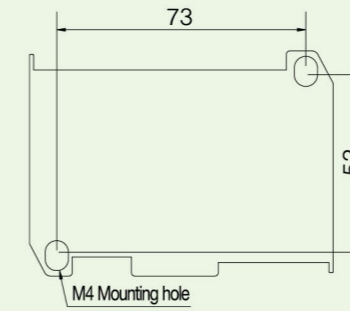
CMC 150-R



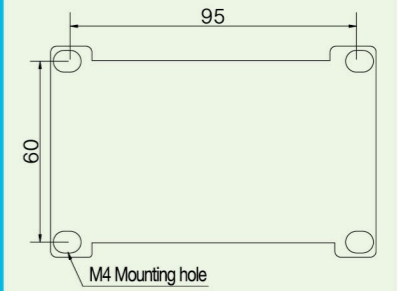
CMC 180-R
CMC 220-R



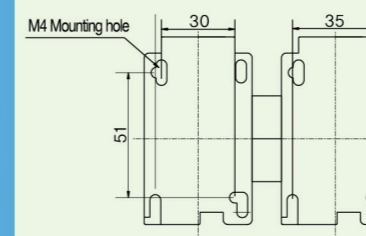
CMH 10



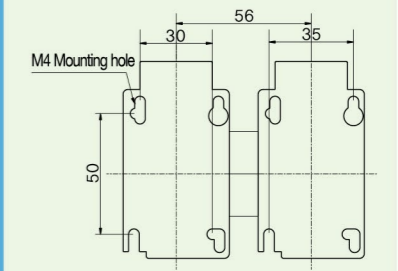
CMH 20



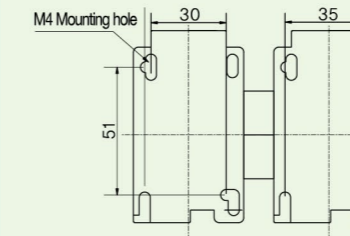
CMC 9N-R
CMC 12N-R
CMC 18N-R
CMC 22N-R



CMC 32N-R
CMC 40N-R
CMC 48N-R



CMC 50N-R
CMC 65N-R
CMC 75N-R
CMC 85N-R

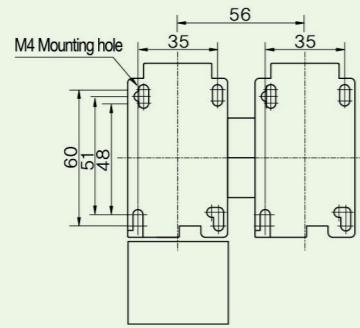


Magnetic Contactor /Starters

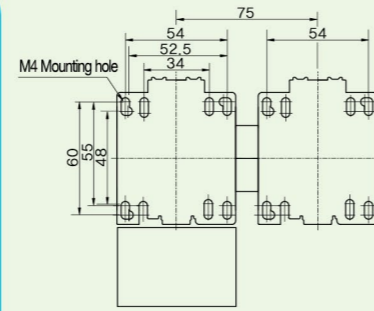
Dimensions

Reversing Comtactors

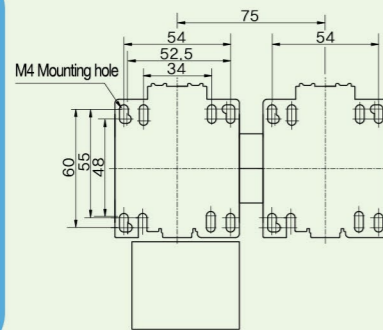
CMS 10-R



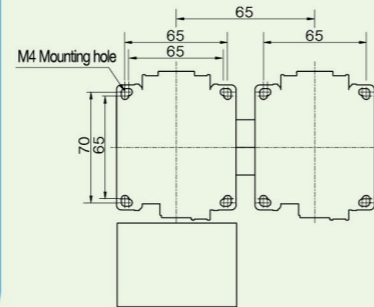
CMS 15-R
CMS 20-R



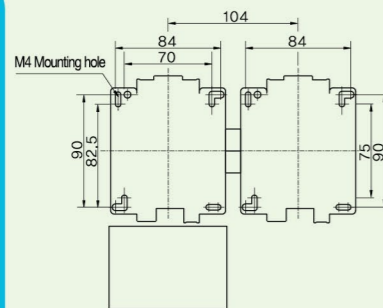
CMS 21-R



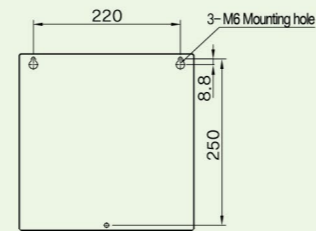
CMS 25-R
CMS 35-R



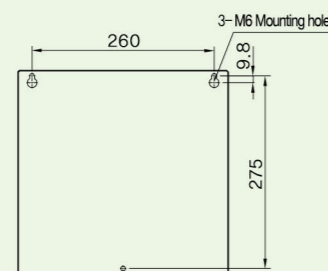
CMS 50-R
CMS 65-R
CMS 80-R



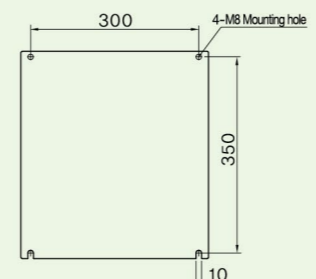
CMS 100-R
CMS 125-R



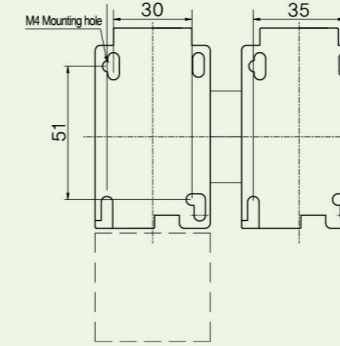
CMS 150-R



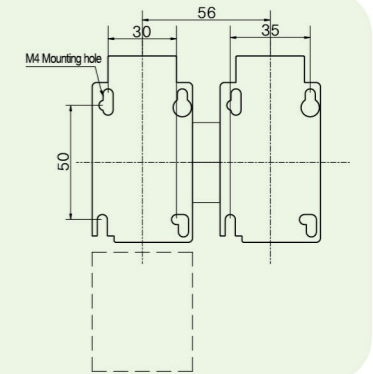
CMS 180-R
CMS 220-R



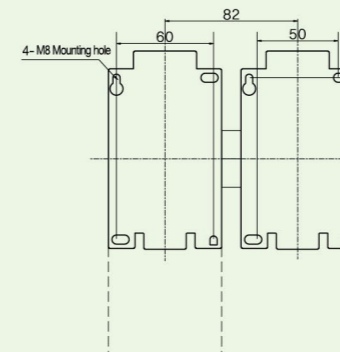
CMS 9N-R
CMS 12N-R
CMS 18N-R
CMS 22N-R



CMS 32N-R
CMS 40N-R
CMS 48N-R



CMS 50N-R
CMS 65N-R
CMS 75N-R
CMS 85N-R

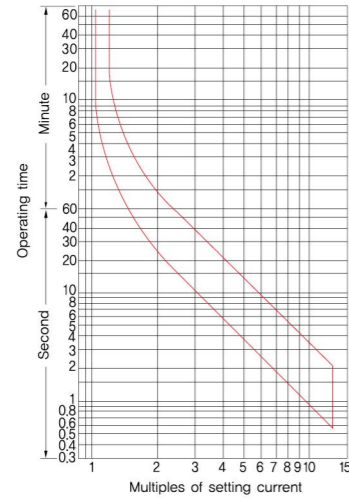


Overload relay

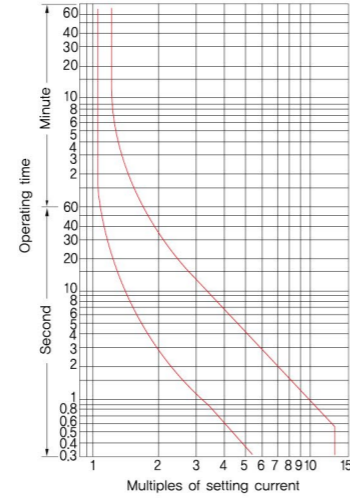
Characteristics Curves

COR 22

Cold Start

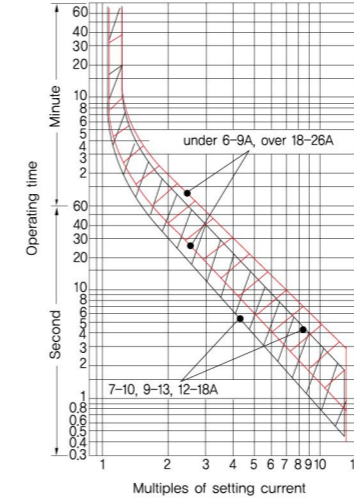


Hot Start

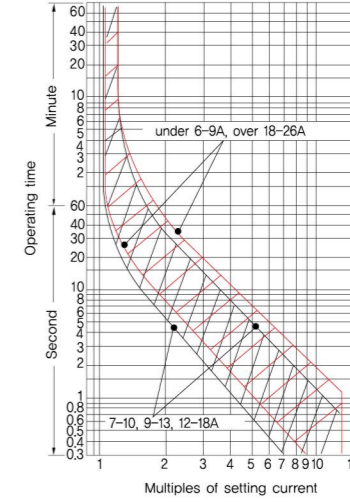


COR 35

Cold Start

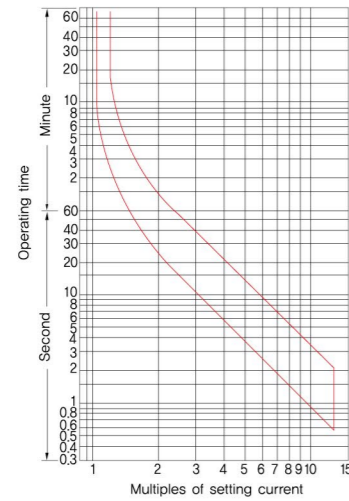


Hot Start

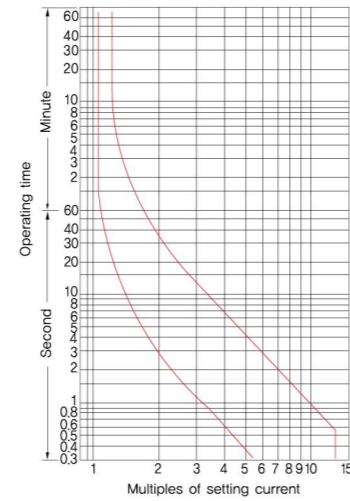


COR 20

Cold Start

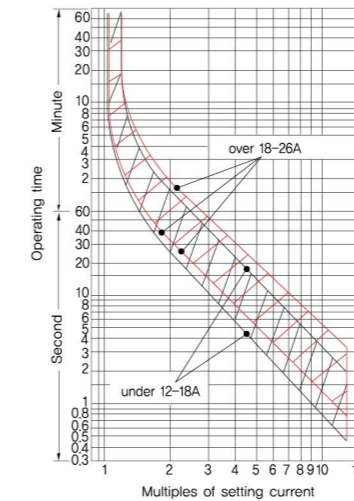


Hot Start

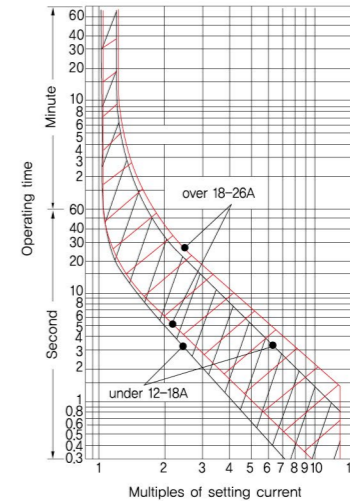


COR 80

Cold Start



Hot Start

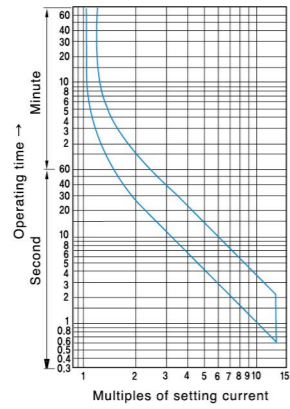


Overload relay

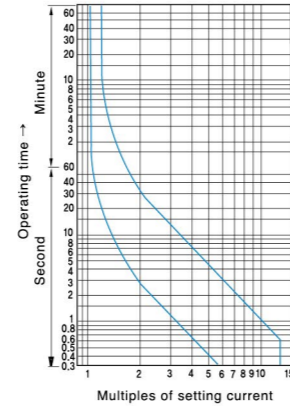
Characteristics Curves

COR 22

Cold Start

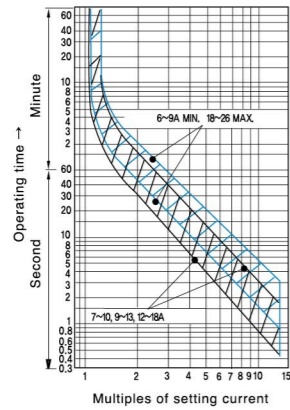


Hot Start

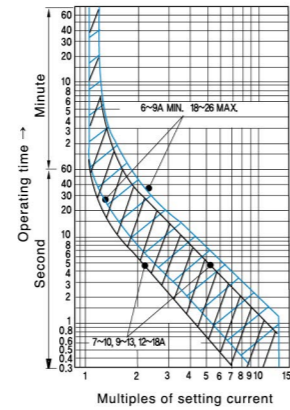


COR 40

Cold Start

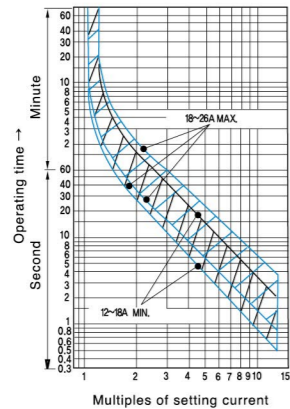


Hot Start

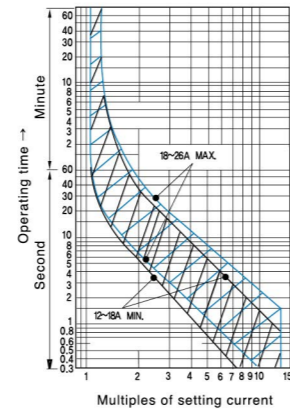


COR 85

Cold Start



Hot Start



World best Quality, CHEIL
To be trusted is greater compliment
than to be loved.