

MeK-Tronics

IEC CONTACTORS AND OVERLOADS



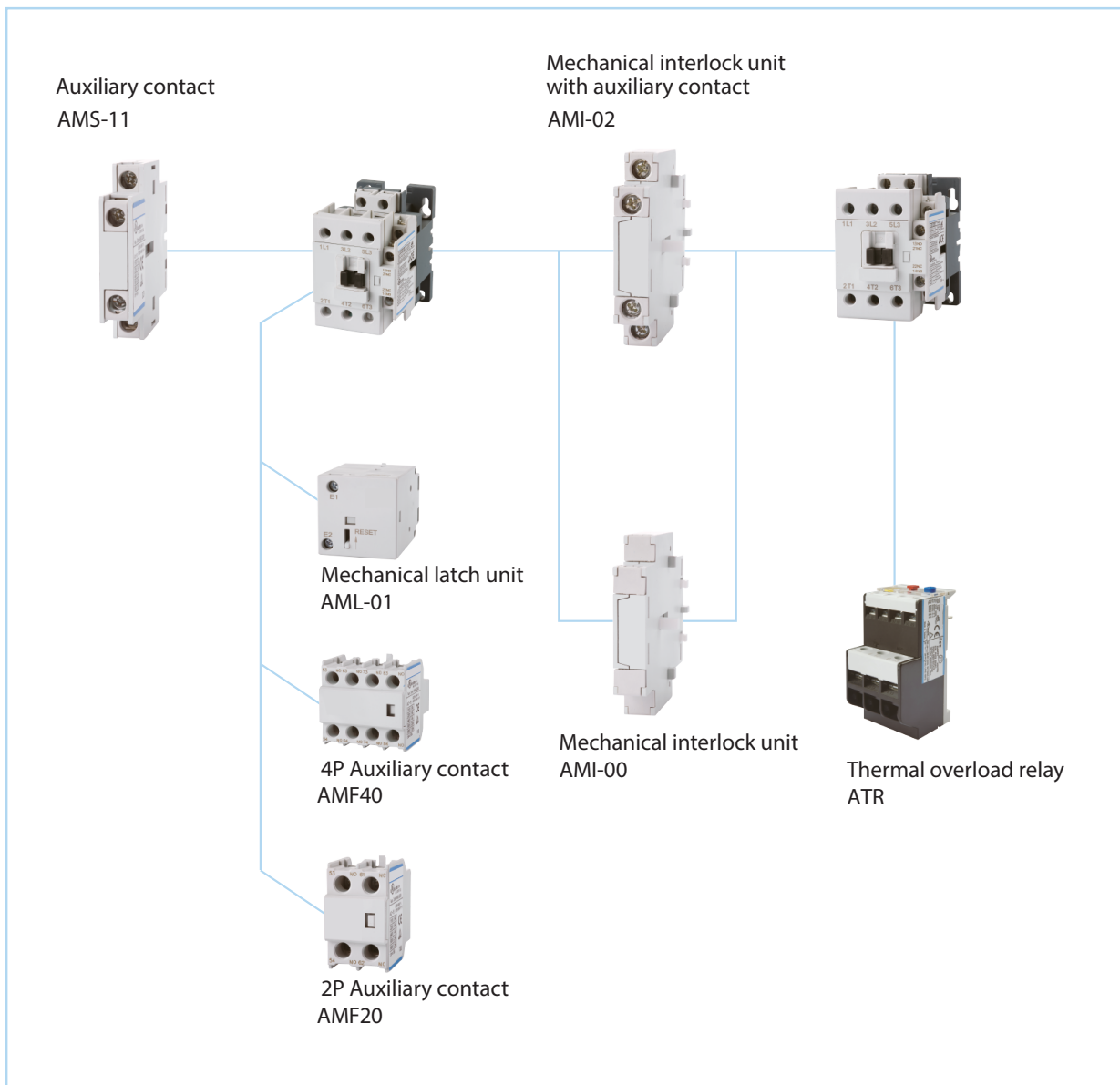
Functionalities and characteristics of IEC Contactor

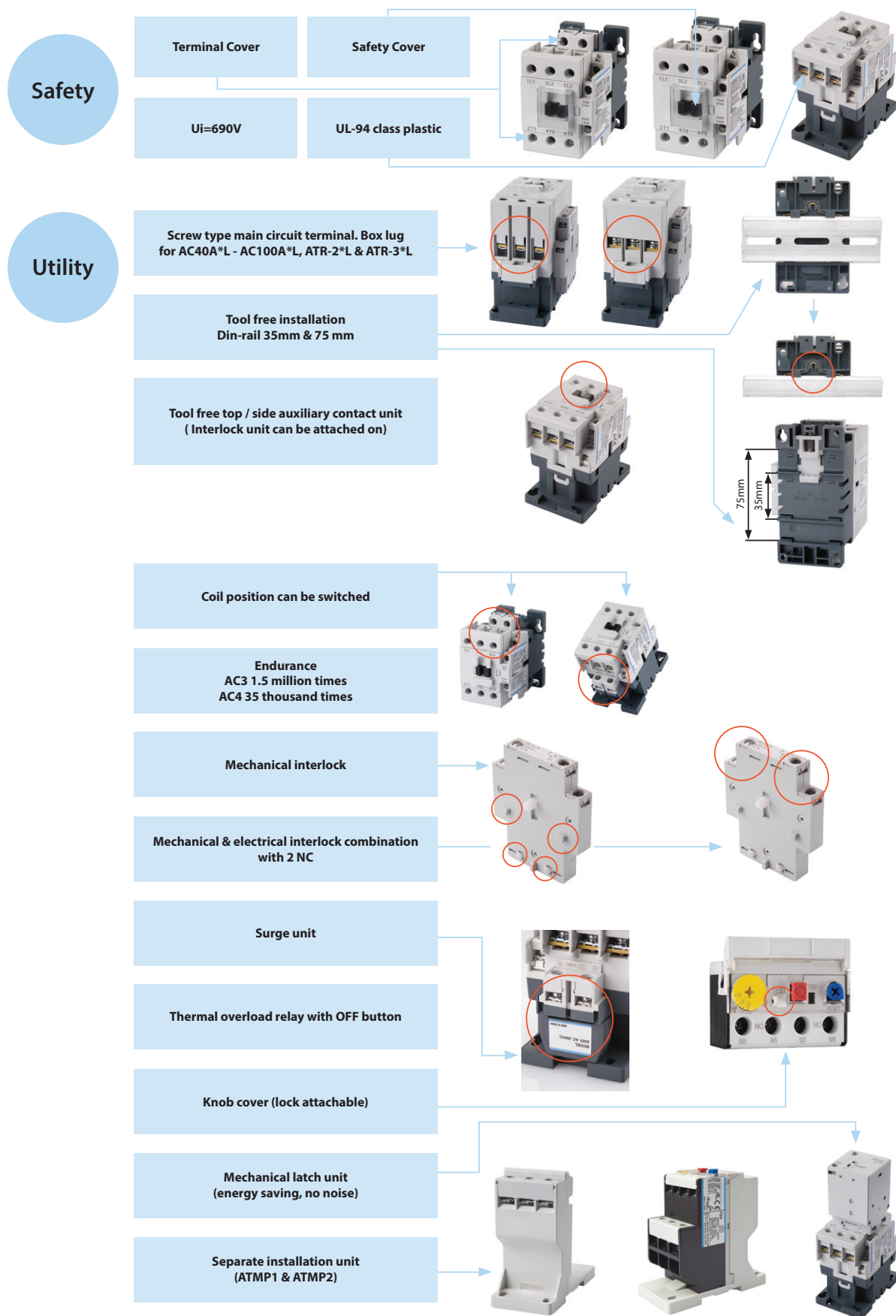
■ Configuration

Composite magnetic switch comprises of a contactor for switching on and off current and a thermal overload relay for protecting the load.

■ Functions

- Switching the control system for electric power transmission and distribution.
- Operation of the start and stop of motors.
- Electric power control for all kinds of industrial machinery, machine tools, injection molding machines.







AC Control Voltage-3P



TYPE					9A					12A						
	Magnetic contactor			Non-reversing	AC09A11**					AC12A11**						
				Reversing ㉔	ACR09A11**					ACR12A11**						
Rated insulation voltage (Ui) IEC				(V)	690					690						
Rated operation voltage (Ue) IEC / UL				(V)	690 / 600					690 / 600						
Rated impulse withstand voltage (Uimp) IEC				(KV)	6					6						
Main contacts					3NO					3NO						
Rated Capacity	Rated power factor and current				kW	HP	A			kW	HP	A				
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	2.2	3	9			3.5	4.5	13				
				380 / 400V	4	5.5	9			5.5	7.5	12				
				415V	4	5.5	9			5.5	7.5	12				
				440V	4	5.5	9			5.5	7.5	12				
				550V	4	5.5	7			5.5	7.5	9				
				660V	4	5.5	5			5.5	7.5	7				
				690V	4	5.5	5			5.5	7.5	7				
	AC-1 Resistance load (A)				25					25						
	Continuous current (Ith) (A)				25					25						
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V		0.5	9.8				0.5	9.8				
				220 ~ 240V		1	8				2	12				
			3 ϕ	220 ~ 240V		2	6.8				3	9.6				
				440 ~ 480V		5	7.6				7.5	11				
				550 ~ 600V		7.5	9				10	11				
			Continuous current (Ith) (A)				25					25				
			NEMA size				00					0				
Auxiliary contact	Auxiliary Contact				1NO & 1NC					1NO & 1NC						
	IEC 60947-5-1 EN 60947-5-1	AC 15 (A)		120V	6					6						
				240V	3					3						
				380V	1.9					1.9						
				480V	1.5					1.5						
				500V	1.4					1.4						
				600V	1.2					1.2						
Continuous current (Ith) (A)				10					10							
Contact class (UL)				A600, Q300					A600, Q300							
Endurance	Mechanical (cycles)				15 Mil.					15 Mil.						
	Electrical (AC3, cycles)				2 Mil.					1.6 Mil.						
	Operation (Time / hour)				1200					1200						
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC	●					●						
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●					●						
		Side		1NO1NC		●					●					
	Coil Suppressor (ACS240)				●					●						
	Mechanical interlock	AMI-00			●					●						
		AMI-02 (With 2NC)			●					●						
	Mechanical latch	AML-01			●					●						
	Dimension (mm) W x H x D				45 x 80 x 85					45 x 80 x 85						
	Weight (Non-reversing)				0.66 lbs. (302g)					0.66 lbs. (302g)						
AC COIL VOLTAGE CODES																
Voltage (50/60Hz)		12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code		JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA

Notes : 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time



18A			25A		
AC18A11**			AC25A11**		
ACR18A11**			ACR25A11**		
690			690		
690 / 600			690 / 600		
6			6		
3NO			3NO		
kW	HP	A	kW	HP	A
4.5	6	18	7.5	10	28
7.5	10	18	11	15	28
7.5	10	18	11	15	25
7.5	10	18	11	15	25
7.5	10	13	15	20	23
7.5	10	10	15	20	18
7.5	10	9	15	20	17
32			40		
32			40		
	1	16		2	24
	3	17		3	17
	5	15.2		7.5	22
	10	14		15	21
	10	11		15	17
25			40		
0			1		
1NO & 1NC			1NO & 1NC		
6			6		
3			3		
1.9			1.9		
1.5			1.5		
1.4			1.4		
1.2			1.2		
10			10		
A600, Q300			A600, Q300		
15 Mil.			15 Mil.		
2 Mil.			2 Mil.		
1200			1200		
●			●		
●			●		
●			●		
●			●		
●			●		
●			●		
●			●		
45 x 80 x 85			55 x 86 x 89		
0.66 lbs. (302g)			0.88 lbs. (400g)		

AC COIL VOLTAGE CODES															
Voltage (50/60Hz)	12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code	JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA



AC Control Voltage-3P



TYPE					32A					38A						
	Magnetic contactor			Non-reversing Reversing®	AC32A11** ACR32A11**					AC38A11** ACR38A11**						
Rated insulation voltage (Ui) IEC				(V)	690					690						
Rated operation voltage (Ue) IEC / UL				(V)	690 / 600					690 / 600						
Rated impulse withstand voltage (Uimp) IEC				(KV)	6					6						
Main contacts					3NO					3NO						
Rated Capacity	Rated power factor and current				kW	HP	A			kW	HP	A				
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	9	12.5	33			11	15	39				
				380 / 400V	15	20	33			18.5	25	38				
				415V	15	20	32			18.5	25	38				
				440V	15	20	32			18.5	25	38				
				550V	18.5	25	29			22	30	33				
				660V	18.5	25	22			22	30	27				
				690V	18.5	25	21			22	30	26				
	AC-1 Resistance load (A)				50					50						
	Continuous current (Ith) (A)				50					50						
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V				3	34					3	34	
				220 ~ 240V				5	28					5	28	
			3 ϕ	220 ~ 240V				10	28					10	28	
				440 ~ 480V				20	27					25	34	
				550 ~ 600V				20	22					25	27	
			Continuous current (Ith) (A)				50					50				
			NEMA size				1					1				
Auxiliary contact	Auxiliary Contact				1NO & 1NC					1NO & 1NC						
	IEC 60947-5-1 EN 60947-5-1	AC 15 (A)		120V	6					6						
				240V	3					3						
				380V	1.9					1.9						
				480V	1.5					1.5						
				500V	1.4					1.4						
				600V	1.2					1.2						
	Continuous current (Ith) (A)				10					10						
Contact class (UL)				A600, Q300					A600, Q300							
Endurance	Mechanical (cycles)				15 Mil.					15 Mil.						
	Electrical (AC3, cycles)				2 Mil.					1.6 Mil.						
	Operation (Time / hour)				1200					1200						
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC	●					●						
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●					●						
		Side		1NO1NC	●					●						
	Coil Suppressor (ACS240)				●					●						
	Mechanical interlock	AMI-00			●					●						
		AMI-02 (With 2NC)			●					●						
	Mechanical latch	AML-01			●					●						
Dimension (mm) W x H x D					55 x 86 x 89					55 x 86 x 89						
Weight (Non-reversing)					0.88 lbs. (400g)					0.88 lbs. (400g)						
AC COIL VOLTAGE CODES																
Voltage (50/60Hz)		12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code		JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA

Notes : 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time

3. Standard model, 40A - 100A do not include an Aux contact. To add one (1) Side Mount Aux Contact (AMS11), change the "00" to "11".

Example, change AC40A00** to AC40A11**



40A			40A/Lugs			50A			50A/Lugs			65A			65A/Lugs		
AC40A00**			AC40A00L**			AC50A00**			AC50A00L**			AC65A00**			AC65A00L**		
ACR40A00**			ACR40A00L**			ACR50A00**			ACR50A00L**			ACR65A00**			ACR65A00L**		
690			690			690			690			690			690		
690 / 600			690 / 600			690 / 600			690 / 600			690 / 600			690 / 600		
6			8			8			8			8			8		
3NO			3NO			3NO			3NO			3NO			3NO		
kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A
12.5	17	44	12.5	17	44	15	20	58	15	20	58	18.5	25	65	18.5	25	65
22	30	40	22	30	40	25	34	52	25	34	52	30	40	65	30	40	65
22	30	40	22	30	40	30	40	50	30	40	50	37	50	65	37	50	65
22	30	40	22	30	40	30	40	50	30	40	50	37	50	65	37	50	65
22	30	33	22	30	33	30	40	41	30	40	41	37	50	52	37	50	52
22	30	27	22	30	27	30	40	34	30	40	34	37	50	43	37	50	43
22	30	26	22	30	26	30	40	32	30	40	32	37	50	39	37	50	39
60			60			80			80			98			98		
60			60			80			80			98			98		
3	34		3	34		5	56		5	56		5	56		5	56	
7.5	40		7.5	40		10	50		10	50		15	68		15	68	
15	42		15	42		20	54		20	54		25	68		25	68	
30	40		30	40		40	52		40	52		50	65		50	65	
30	32		30	32		40	41		40	41		50	52		50	52	
60			60			80			80			98			98		
2			2			2			2			2			2		
Note 2			Note 2			Note 2			Note 2			Note 2			Note 2		
6			6			6			6			6			6		
3			3			3			3			3			3		
1.9			1.9			1.9			1.9			1.9			1.9		
1.5			1.5			1.5			1.5			1.5			1.5		
1.4			1.4			1.4			1.4			1.4			1.4		
1.2			1.2			1.2			1.2			1.2			1.2		
10			10			10			10			10			10		
A600, Q600			A600, Q600			A600, Q600			A600, Q600			A600, Q600			A600, Q600		
10 Mil.			10 Mil.			10 Mil.			10 Mil.			10 Mil.			10 Mil.		
1.6 Mil.			1.6 Mil.			1.5 Mil.			1.5 Mil.			1.5 Mil.			1.5 Mil.		
1200			1200			1200			1200			1200			1200		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
55 x 115 x 120			55 x 115 x 120			55 x 115 x 120			55 x 115 x 120			55 x 115 x 120			55 x 115 x 120		
1.74 lbs. (788g)			1.89 lbs. (860g)			1.74 lbs. (788g)			1.89 lbs. (860g)			1.74 lbs. (788g)			1.89 lbs. (860g)		

AC COIL VOLTAGE CODES

Voltage (50/60Hz)	12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code	JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA



AC Control Voltage-3P



TYPE					80A			80A/Lugs			100A			100A/Lugs		
	Magnetic contactor			Non-reversing	AC80A00**			AC80A00L**			AC100A00**			AC100A00L**		
				Reversing ㉔	ACR80A00**			ACR80A00L**			ACR100A00**			ACR100A00L**		
Rated insulation voltage (Ui) IEC (V)					690			690			690			690		
Rated operation voltage (Ue) IEC / UL (V)					690 / 600			690 / 600			690 / 600			690 / 600		
Rated impulse withstand voltage (Uimp) IEC (KV)					8			8			8			8		
Main contacts					3NO			3NO			3NO			3NO		
Rated Capacity	Rated power factor and current				kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	22	30	85	22	30	85	30	40	105	30	40	105
				380 / 400V	40	54	85	40	54	85	55	73	105	55	73	105
				415V	40	54	80	40	54	80	60	80	100	60	80	100
				440V	40	54	80	40	54	80	60	80	100	60	80	100
				550V	45	60	60	45	60	60	60	80	85	60	80	85
				660V	45	60	50	45	60	50	60	80	70	60	80	70
				690V	45	60	50	45	60	50	60	80	65	60	80	65
	AC-1 Resistance load (A)				125			125			140			140		
	Continuous current (Ith) (A)				125			125			140			140		
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V		7.5	80		7.5	80		10	100		10	100
				220 ~ 240V		20	88		20	88		25	110		25	110
			3 ϕ	220 ~ 240V		30	80		30	80		40	104		40	104
				440 ~ 480V		60	77		60	77		75	96		75	96
				550 ~ 600V		60	62		60	62		75	77		75	77
			Continuous current (Ith) (A)				125			125			140			140
	NEMA size				2			2			3			3		
Auxiliary contact	Auxiliary Contact				Note 2			Note 2			Note 2			Note 2		
	IEC 60947-5-1 EN 60947-5-1	AC 15 (A)		120V	6		6		6		6		6			
				240V	3		3		3		3					
				380V	1.9		1.9		1.9		1.9					
				480V	1.5		1.5		1.5		1.5					
				500V	1.4		1.4		1.4		1.4					
				600V	1.2		1.2		1.2		1.2					
Continuous current (Ith) (A)				10			10			10			10			
Contact class (UL)				A600, Q600			A600, Q600			A600, Q600			A600, Q600			
Endurance	Mechanical (cycles)				10 Mil.			10 Mil.			10 Mil.			10 Mil.		
	Electrical (AC3, cycles)				1.5 Mil.			1.5 Mil.			1.2 Mil.			1.2 Mil.		
	Operation (Time / hour)				1200			1200			1200			1200		
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC	●		●		●		●		●			
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●		●		●		●					
		Side	1NO1NC	●		●		●		●						
	Coil Suppressor (ACS240)				●		●		●		●					
	Mechanical interlock	AMI-00			●		●		●		●					
		AMI-02 (With 2 NC)			●		●		●		●					
	Mechanical latch	AML-01			●		●		●		●					
	Dimension (mm) W x H x D				70 x 140 x 136			70 x 140 x 136			70 x 140 x 136			70 x 140 x 136		
	Weight (Non-reversing)				3.58 lbs. (1625g)			3.75 lbs. (1700g)			3.58 lbs. (1625g)			3.75 lbs. (1700g)		
AC COIL VOLTAGE CODES																
Voltage (50/60Hz)		12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code		JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA

Notes : 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time

3. Standard model, 40A - 100A do not include an Aux contact. To add one (1) Side Mount Aux Contact (AMS11), change the "00" to "11". Example, change AC40A00** to AC40A11**

AC Control Voltage - 4P



TYPE					9A			12A			18A			
Model	Magnetic Contactor (Non-reversing)	Main Contact Configuration	3 NO + 1 NO Aux		AC09B10**			AC12B10**			AC18B10**			
			3 NO + 1 NC Aux		AC09B01**			AC12B01**			AC18B01**			
			4 NO		AC09C00**			AC12C00**			AC18C00**			
			2 NO + 2 NC		AC09D00**			AC12D00**			AC18D00**			
	Magnetic Contractor (Reversing)Ⓢ				ACR09C00**			ACR12C00**			ACR18C00**			
Rated insulation voltage (Ui) IEC (V)				690			690			690				
Rated operation voltage (Ue) IEC / UL (V)				690 / 600			690 / 600			690 / 600				
Rated impulse withstand voltage (Uimp) IEC (KV)				6			6			6				
Main contacts					4NO / 2NO2NC / 3NO			4NO / 2NO2NC / 3NO			4NO / 2NO2NC / 3NO			
Rated Capacity	Rated power factor and current				kW	HP	A	kW	HP	A	kW	HP	A	
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	2.2	3	9	3.5	4.5	13	4.5	6	18	
				380 / 400V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				415V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				440V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				550V	4	5.5	7	5.5	7.5	9	7.5	10	13	
				660V	4	5.5	5	5.5	7.5	7	7.5	10	10	
		690V	4	5.5	5	5.5	7.5	7	7.5	10	9			
	AC-1 Resistance load (A)				25			25			32			
	Continuous current (Ith) (A)				25			25			32			
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V	0.5		9.8	0.5		9.8	1		16	
				220 ~ 240V	1		8	2		12	3		17	
			3 ϕ	220 ~ 240V	2		6.8	3		9.6	5		15.2	
				440 ~ 480V	5		7.6	7.5		11	10		14	
				550 ~ 600V	7.5		9	10		11	10		11	
			Continuous current (Ith) (A)				25			25			25	
		NEMA size				00			0			0		
Auxiliary contact	Auxiliary Contact				Note 2			Note 2			Note 2			
	IEC 60947-5-1 EN 60947-5-1	AC 15 (A)	120V		6			6			6			
			240V		3			3			3			
			380V		1.9			1.9			1.9			
			480V		1.5			1.5			1.5			
			500V		1.4			1.4			1.4			
		600V		1.2			1.2			1.2				
	Continuous current (Ith) (A)				10			10			10			
Contact class (UL)				A600, Q300			A600, Q300			A600, Q300				
Endurance	Mechanical (cycles)				15 Mil.			15 Mil.			15 Mil.			
	Electrical (AC3, cycles)				2 Mil.			2 Mil.			2 Mil.			
	Operation (Time / hour)				1200			1200			1200			
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC	●			●			●			
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●			●			●			
		Side		1NO1NC		●			●			●		
	Coil Suppressor (ACS240)				●			●			●			
	Mechanical interlock	AMI-00			●			●			●			
		AMI-02 (With 2 NC)			●			●			●			
	Mechanical latch		AML-01			●			●			●		
	Dimension (mm) W x H x D				45 x 80 x 85			45 x 80 x 85			45 x 80 x 85			
	Weight (Non-reversing)				0.64 lbs. (290g)			0.64 lbs. (290g)			0.64 lbs. (290g)			

AC COIL VOLTAGE CODES

Voltage (50/60Hz)	12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code	JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA

Notes: 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time

3. 3 Pole version comes with 1 NO or 1 NC auxiliary contact, 4 Pole version does not come with an auxiliary contact



AC Control Voltage - 4P



TYPE					25A			32A			38A			40A			
Model	Magnetic contactor	Main Contact		4 NO	AC25C00**			AC32C00**			AC38C00**			AC40C00**			
	Non-reversing	Configuration		2 NO & 2NC	AC25D00**			AC32D00**			AC38D00**			AC40D00**			
	Magnetic Contactor (Reversing)Ⓢ				ACR25C00**			ACR32C00**			ACR38C00**			ACR40C00**			
	Rated insulation voltage (Ui) IEC (V)				690			690			690			690			
	Rated operation voltage (Ue) IEC / UL (V)				690 / 600			690 / 600			690 / 600			690 / 600			
Rated impulse withstand voltage (Uimp) IEC (KV)					6			6			8			8			
Main contacts					4NO / 2NO2NC			4NO / 2NO2NC			4NO / 2NO2NC			4NO / 2NO2NC			
Rated Capacity	Rated power factor and current				kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A	
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	7.5	10	28	9	12.5	33	11	15	39	11	15	40	
				380 / 400V	11	15	28	15	20	33	18.5	25	38	18.5	25	40	
				415V	11	15	25	15	20	32	18.5	25	38	18.5	25	40	
				440V	11	15	25	15	20	32	18.5	25	38	22	30	40	
				550V	15	20	23	18.5	25	29	22	30	33	22	30	34	
				660V	15	20	18	18.5	25	22	22	30	27	30	40	34	
				690V	15	20	17	18.5	25	21	22	30	26				
	AC-1 Resistance load (A)			40			50			50			50				
	Continuous current (Ith) (A)			40			50			50			50				
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V		2	24		3	34		3	34				
				220 ~ 240V		3	17		5	28		5	28				
			3 ϕ	220 ~ 240V		7.5	22		10	28		10	28				
				440 ~ 480V		15	21		20	27		25	34				
				550 ~ 600V		15	17		20	22		25	27				
			Continuous current (Ith) (A)			40			50			50					
	NEMA size			1			1			1							
	Auxiliary contact	Auxiliary Contact				-			-			-			-		
		IEC 60947-5-1 EN 60947-5-1	AC 15 (A)		120V	-			-			-			-		
				240V	-			-			-			-			
				380V	-			-			-			-			
				480V	-			-			-			-			
				500V	-			-			-			-			
				600V	-			-			-			-			
Continuous current (Ith) (A)			-			-			-			-					
Contact class (UL)				-			-			-			-				
Endurance	Mechanical (cycles)				15 Mil.			15 Mil.			15 Mil.			15 Mil.			
	Electrical (AC3, cycles)				2 Mil.			2 Mil.			1.6 Mil.			1.6 Mil.			
	Operation (Time / hour)				1200			1200			1200			1200			
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC	●			●			●			●			
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●			●			●			●			
		Side	1NO1NC	●			●			●			●				
	Coil Suppressor (ACS240)				●			●			●			●			
	Mechanical interlock	AMI-00			●			●			●			●			
		AMI-02 (With 2 NC)			●			●			●			●			
	Mechanical latch	AML-01			●			●			●			●			
	Dimension (mm) W x H x D				55 x 86 x 89			55 x 86 x 89			55 x 86 x 89			55 x 86 x 89			
	Weight (Non-reversing)				0.92 lbs. (418g)			0.92 lbs. (418g)			0.92 lbs. (418g)			0.92 lbs. (418g)			
AC COIL VOLTAGE CODES																	
Voltage (50/60Hz)		12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v	
Code		JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA	

Notes : 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time

DC Control Voltage - 3P

TYPE				9A			12A			18A				
Model	Magnetic contactor		Non-reversing	AD09A11**			AD12A11**			AD18A11**				
			Reversing®	ADR09A11**			ADR12A11**			ADR18A11**				
	Rated insulation voltage (Ui) IEC (V)			690			690			690				
	Rated operation voltage (Ue) IEC / UL (V)			690 / 600			690 / 600			690 / 600				
	Rated impulse withstand voltage (Uimp) IEC (KV)			6			6			6				
Main contacts				3NO			3NO			3NO				
Rated Capacity	Rated power factor and current			kW	HP	A	kW	HP	A	kW	HP	A		
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	2.2	3	9	3.5	4.5	13	4.5	6	18	
				380 / 400V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				415V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				440V	4	5.5	9	5.5	7.5	12	7.5	10	18	
				550V	4	5.5	7	5.5	7.5	9	7.5	10	13	
				660V	4	5.5	5	5.5	7.5	7	7.5	10	10	
				690V	4	5.5	5	5.5	7.5	7	7.5	10	9	
	AC-1 Resistance load (A)			25			25			32				
	Continuous current (Ith) (A)			25			25			32				
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V		0.5	9.8		0.5	9.8		1	16	
				220 ~ 240V		1	8		2	12		3	17	
			3 ϕ	220 ~ 240V		2	6.8		3	9.6		5	15.2	
				440 ~ 480V		5	7.6		7.5	11		10	14	
				550 ~ 600V		7.5	9		10	11		10	11	
			Continuous current (Ith) (A)			25			25			25		
			NEMA size			00			00			00		
	Auxiliary Contact	Auxiliary Contact			1NO & 1NC			1NO & 1NC			1NO & 1NC			
IEC 60947-5-1 EN 60947-5-1		AC 15 (A)	120V	6			6			6				
			240V	3			3			3				
			380V	1.9			1.9			1.9				
			480V	1.5			1.5			1.5				
			500V	1.4			1.4			1.4				
			600V	1.2			1.2			1.2				
Continuous current (Ith) (A)			10			10			10					
Contact class (UL)			A600, Q300			A600, Q300			A600, Q300					
Endurance	Mechanical (cycles)			15 Mil.			15 Mil.			15 Mil.				
	Electrical (AC3, cycles)			2 Mil.			2 Mil.			2 Mil.				
	Operation (Time / hour)			1200			1200			1200				
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC			●			●				
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC			●			●				
		Side	1NO1NC			●			●					
	Mechanical interlock	AMI-00			●			●			●			
		AMI-02 (With 2 NC)			●			●			●			
	Mechanical latch	AML-01			●			●			●			
	Dimension (mm) W x H x D			45 x 80 x 99			45 x 80 x 99			45 x 80 x 99				

DC COIL VOLTAGE CODES

Voltage	12v	24v	48v	72v	110v	125v	200v	220v
Code	JD	BD	ED	SD	FD	CD	LD	MD

Notes : 1. ** = Add coil voltage code
2. Reversers are not UL approved at this time



DC Control Voltage - 3P

TYPE					25A			32A			38A			40A			40A/Lugs				
Model	Magnetic contactor			Non-reversing	AD25A11**			AD32A11**			AD38A11**			AD40A00**			AD40A00L**				
				Reversing®	ADR25A11**			ADR32A11**			ADR38A11**			ADR40A00**			ADR40A00L**				
	Rated insulation voltage (Ui) IEC (V)				690			690			690			690			690				
	Rated operation voltage (Ue) IEC / UL (V)				690 / 600			690 / 600			690 / 600			690 / 600			690 / 600				
	Rated impulse withstand voltage (Uimp) IEC (KV)				6			6			6			8			8				
Main contacts					3NO			3NO			3NO			3NO			3NO				
Rated Capacity	Rated power factor and current				kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A		
	IEC60947-4-1 EN60947-4-1 DIN VDE 0660	AC3	3 ϕ	200 / 240V	7.5	10	28	9	12.5	33	11	15	39	12.5	17	44	12.5	17	44		
				380 / 400V	11	15	28	15	20	33	18.5	25	38	22	30	40	22	30	40		
				415V	11	15	25	15	20	32	18.5	25	38	22	30	40	22	30	40		
				440V	11	15	25	15	20	32	18.5	25	38	22	30	40	22	30	40		
				550V	15	20	25	18.5	25	29	22	30	33	22	30	33	22	30	33		
				660V	15	20	18	18.5	25	22	22	30	27	22	30	27	22	30	27		
				690V	15	20	17	18.5	25	21	22	30	26	22	30	26	22	30	26		
	AC-1 Resistance load (A)				40			50			50			60			60				
	Continuous current (Ith) (A)				40			50			50			60			60				
	UL 508 CSA-C22.2	FLA	1 ϕ	110 ~ 120V		2	24		3	34		3	34		3	34		3	34		
				220 ~ 240V		3	17		5	28		5	28		7.5	40		7.5	40		
			3 ϕ	220 ~ 240V		7.5	22		10	28		10	28		15	42		15	42		
				440 ~ 480V		15	21		20	27		25	27		30	40		30	40		
				550 ~ 600V		15	17		20	22		25	22		30	32		30	32		
			Continuous current (Ith) (A)				40			50			50			60			60		
			NEMA size				1			1			1			1			2		
	Auxiliary Contact	Auxiliary Contact				1NO & 1NC			1NO & 1NC			1NO & 1NC			Note 2			Note 2			
IEC 60947-5-1 EN 60947-5-1		AC 15 (A)	120V	6			6			6			6			6					
			240V	3			3			3			3			3					
			380V	1.9			1.9			1.9			1.9			1.9					
			480V	1.5			1.5			1.5			1.5			1.5					
			500V	1.4			1.4			1.4			1.4			1.4					
			600V	1.2			1.2			1.2			1.2			1.2					
Continuous current (Ith) (A)				10			10			10			10			10					
Contact class (UL)					A600, Q300			A600, Q300			A600, Q300			A600, Q600			A600, Q600				
Endurance	Mechanical (cycles)				10 Mil.			10 Mil.			10 Mil.			10 Mil.			10 Mil.				
	Electrical (AC3, cycles)				1.6 Mil.			1.6 Mil.			1.6 Mil.			1.6 Mil.			1.6 Mil.				
	Operation (Time / hour)				1200			1200			1200			1200			1200				
Accessory	Auxiliary Contact Unit	Front	2P	2NO, 1NO1NC, 2NC			●			●			●			●			●		
			4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC			●			●			●			●			●		
		Side	1NO1NC			●			●			●			●			●			
	Mechanical interlock	AMI-00			●			●			●			●			●				
		AMI-02 (With 2 NC)			●			●			●			●			●				
	Mechanical latch	AML-01			●			●			●			●			●			●	
	Dimensions (mm) W x H x D				55 x 86 x 108			55 x 86 x 108			55 x 86 x 108			55 x 115 x 123.5			55 x 115 x 123.5				

DC COIL VOLTAGE CODES

Voltage	12v	24v	48v	72v	110v	125v	200v	220v
Code	JD	BD	ED	SD	FD	CD	LD	MD

- Notes:
1. ** = Add coil voltage code
 2. Reversers are not UL approved at this time
 3. Standard model, 40A - 100A do not include an Aux contact. To add one (1) Side Mount Aux Contact (AMS11), change the "00" to "11". Example, change AD40A00** to AD40A11**

DC Control Voltage - 3P

TYPE					50A			50A/Lugs			65A			65A/Lugs			
Model	Magnetic contactor				Non-reversing	AD50A00**			AD50A00L**			AD65A00**			AD65A00L**		
					Reversing®	ADR50A00**			ADR50A00L**			ADR65A00**			ADR65A00L**		
	Rated insulation voltage (Ui) IEC (V)				690			690			690			690			
	Rated operation voltage (Ue) IEC / UL (V)				690 / 600			690 / 600			690 / 600			690 / 600			
	Rated impulse withstand voltage (Uimp) IEC (KV)				8			8			8			8			
Main contacts					3NO			3NO			3NO			3NO			
Rated power factor and current					kW	HP	A	kW	HP	A	kW	HP	A	kW	HP	A	
Rated Capacity	IEC60947-4-1 EN60947-4-1 DIN VDE 0660		AC3	3 ϕ	200 / 240V	15	20	58	15	20	58	18.5	25	65	18.5	25	65
					380 / 400V	25	34	52	25	34	52	30	40	65	30	40	65
					415V	30	40	50	30	40	50	37	50	65	37	50	65
					440V	30	40	50	30	40	50	37	50	65	37	50	65
					550V	30	40	41	30	40	41	37	50	52	37	50	52
					660V	30	40	34	30	40	34	37	50	43	37	50	43
					690V	30	40	32	30	40	32	37	50	39	37	50	39
	AC-1 Resistance load (A)				80			80			98			98			
	Continuous current (Ith) (A)				80			80			98			98			
	UL 508 CSA-C22.2		FLA	1 ϕ	110 ~ 120V		5	56		50	56		5	56		5	56
					220 ~ 240V		10	50		10	50		15	68		15	68
					220 ~ 240V		20	54		20	54		25	68		25	68
				3 ϕ	440 ~ 480V		40	52		40	52		50	65		50	65
					550 ~ 600V		40	41		40	41		50	52		50	52
				Continuous current (Ith) (A)				80			80			98			98
	NEMA size				2			2			2			2			
	Auxiliary Contact					Note 2			Note 2			Note 2			Note 2		
	Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1		AC 15 (A)	120V	6			6			6			6		
240V					3			3			3			3			
380V					1.9			1.9			1.9			1.9			
480V					1.5			1.5			1.5			1.5			
500V					1.4			1.4			1.4			1.4			
600V					1.2			1.2			1.2			1.2			
Continuous current (Ith) (A)				10			10			10			10				
Contact class (UL)					A600, Q600			A600, Q600			A600, Q600			A600, Q600			
Endurance	Mechanical (cycles)				10 Mil.			10 Mil.			10 Mil.			10 Mil.			
	Electrical (AC3, cycles)				1.5 Mil.			1.5 Mil.			1.5 Mil.			1.5 Mil.			
	Operation (Time / hour)				1200			1200			1200			1200			
Accessory	Auxiliary Contact Unit		Front	2P	2NO, 1NO1NC, 2NC	●			●			●			●		
				4P	4NO, 3NO1NC, 2NO2NC, 1NO3NC	●			●			●			●		
			Side <td colspan="1">1NO1NC</td> <td colspan="3">●</td> <td colspan="3">●</td> <td colspan="3">●</td> <td colspan="3">●</td>	1NO1NC	●			●			●			●			
	Mechanical interlock	AMI-00				●			●			●			●		
		AMI-02 (With 2 NC)				●			●			●			●		
	Mechanical latch	AML-01				●			●			●			●		
	Dimensions (mm) W x H x D				55 x 115 x 123.5			55 x 115 x 123.5			55 x 115 x 123.5			55 x 115 x 123.5			

DC COIL VOLTAGE CODES

Voltage	12v	24v	48v	72v	110v	125v	200v	220v
Code	JD	BD	ED	SD	FD	CD	LD	MD

Notes : 1. ** = Add coil voltage code

2. Reversers are not UL approved at this time

3. Standard model, 40A - 100A do not include an Aux contact. To add one (1) Side Mount Aux Contact (AMS11), change the "00" to "11".

Example, change AD40A00** to AD40A11**

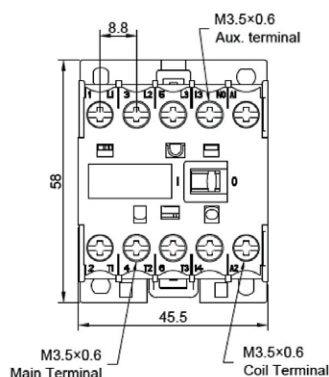
Mini Contactor



Model				6A	9A
	Magnetic Contactor	Nonreversing		AMC06A10**	AMC09A10**
		Reversing Ⓢ		AMCR06A10**	AMCR09A10**
Rated Capacity	IEC60947-4-1 EN60947-4-1 AC3 (kW/HP/A)	3 ϕ	240V	1.5/2/7.5	2.2/3/10.1
			380/415V	3/4/6.6	4/5.5/9
			440V	3/4/6.5	4/5.5/8.5
			550V	3/4/5	4/5.5/6.5
			660V	3/4/4	4/5.5/5
		Continuous current (Ith) AC1(A)		20	20
		Rated Insulation Voltage (Ui) (V)		AC660	AC660
	UL 508 CSA-C22.2 (HP/A)	1 ϕ	100-120V	0.25/8	0.5/9.8
			200-240V	1/8	1.5/10
		3 ϕ	200-240V	2/6.8	3/9.6
			380-480V	3/4.8	5/7.6
			550-600V	3/3.9	5/6.2
		Continuous current (Ith) AC1(A)		20	20
		Rated Insulation Voltage (Ui) (V)		AC660	AC660
	NEMA			00	00
	Auxiliary Contact	IEC 60947-5-1 EN 60947-5-1 (AC15)	Contact	Standard	1NO
Special				1NC	1NC
220V				3.3	3.3
380V				1.9	1.9
Continuous current (Ith) AC1(A)			10	10	
Contact Class (UL)			A600	A600	
Electrical Life (AC3, cycles)		1.6 Mil.	1.6 Mil.		
Mechanical Life (cycles)		10 Mil.	10 Mil.		
Operation (Time / hour)		1200	1200		
Weight		0.36 lbs. (165g)	0.36 lbs. (165g)		

AC COIL VOLTAGE CODES

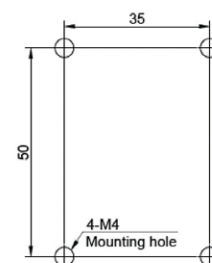
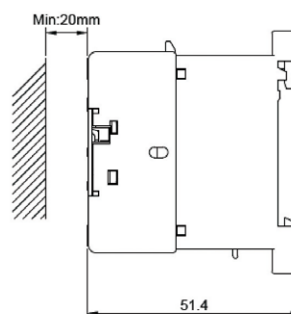
Code (**)	Voltage (50 Hz)	Voltage (60 Hz)
JA	12v	12v
BA	24v	24v
EA	48v - 50v	48v - 50v
FA	100v	100v - 110v
GA	110v - 120v	115v - 120v
MA	210v - 220v	220v
PA	230v	230v
UA	220v - 240v	240v - 260v
QA	346v - 380v	380v
RA	400v	400v - 440v
TA	415v - 440v	460v - 480v
HA	500v	500v - 550v



Thermal Overload Relay



Type	9A and Less	
With phase failure protection	Contractor Assembled Type	AMTR-1 ^{^^}
	Independently Installed Type	- - -
	Reset Mode	Manual/Automatic
Magnetic Contactor		AMC06 & AMC09
Thermal Overload Adjusting Range	P/N CODE (^{^^})	Rating (A) Range (A)
	013	0.13 0.1 ~ 0.16
	020	0.20 0.16 ~ 0.24
	032	0.32 0.24 ~ 0.4
	050	0.5 0.4 ~ 0.6
	080	0.8 0.6 ~ 1
	130	1.3 1 ~ 1.6
	200	2.0 1.6 ~ 2.4
Auxiliary Contact	320	3.2 2.4 ~ 4
	500	5 4 ~ 6
	750	7.5 6 ~ 9
Auxiliary Contact	Contact Type	1NO & 1NC
	Contact Class (UL)	C300, R300
Weight (kg)		0.075
Dimensions (mm) (WxHxD)		45.5 x 64.8 x 50
Example P/N (2A Rating)		AMTR-1200



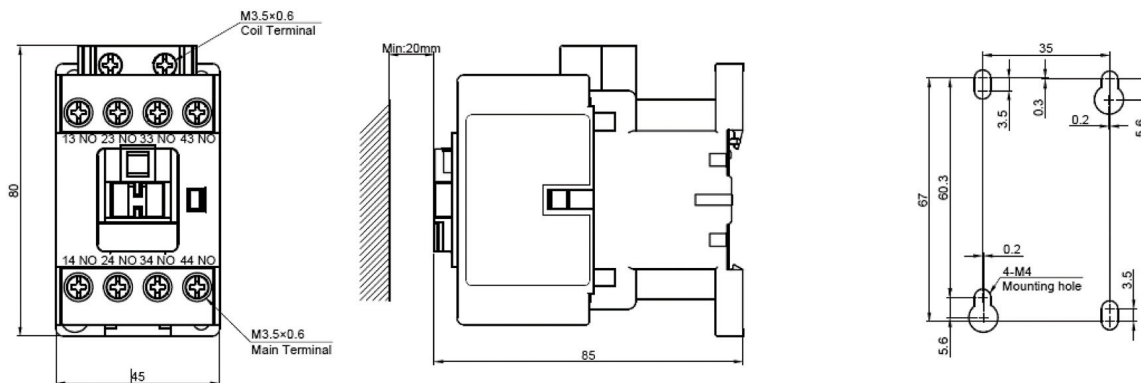
Notes : 1. ** = Add coil voltage code
2. Reversers are not UL approved at this time

Control Relay

Model			10A
Contact	4 NO 2 NO & 2 NC 3 NO & 1 NC		ARC 10C** ARC 10D** ARC 10E**
Rated Capacity (A)	AC-15 (IEC)	120V	6
		240V	3
		380V	1.9
		480V	1.5
		500V	1.4
	DC-13 (IEC)	600V	1.2
		125V	0.55
		250V	0.27
		400V	0.15
		500V	0.13
600V	0.1		
Contact class		(UL)	A600, Q600
Rated insulation voltage (Ui)		(V)	690
Continuous current (Ith)		(A)	10
Electrical life		(cycles)	0.5 Mil.
Mechanical life		(cycles)	10 Mil.

AC COIL VOLTAGE CODES												
Voltage (50/60Hz)	12v	24v	48v	110v	120v	220v	230v	240v	380v	440v	480v	550v
Code	JA	BA	EA	FA	GA	MA	PA	UA	QA	RA	TA	HA

Notes : 1. ** = Add coil voltage code





Coil Characteristics (AC)

Model	Impulse (VA)	Operation (VA)	Power Consumption (W)
AC09	65.0	9.0	3.0
AC12	65.0	9.0	3.0
AC18	65.0	9.0	3.0
AC25	75.0	11.0	3.0
AC32	75.0	11.0	3.0
AC38	75.0	11.0	3.0
AC40	185.0	15.5	5.6
AC50	185.0	15.5	5.6
AC65	185.0	15.5	5.6
AC80	340.0	24.5	6.7
AC100	340.0	24.5	6.7

Coil Characteristics (DC)

Model	Impulse (VA)	Operation (VA)	Power Consumption (W)
AD09	-	-	6.0
AD12	-	-	6.0
AD18	-	-	6.0
AD25	-	-	6.0
AD32	-	-	6.0
AD38	-	-	6.0
AD40	27.0	8.0	8.0
AD50	27.0	8.0	8.0
AD65	27.0	8.0	8.0
AD80 (AC/AD Shared Coil)	300.0	10.0	2.4
AD100 (AC/DC Shared Coil)	300.0	10.0	2.4

Notes : AC/DC shared coil is not standard type. Please specify when ordering.

Coil Specification Table

AC COIL VOLTAGE CODES (AC09-AC100)															
Voltage (50/60Hz)	12v	24v	48v	110v	120v	127v	200v	220v	230v	240v	260v	380v	440v	480v	550v
Code	JA	BA	EA	FA	GA	DA	LA	MA	PA	UA	WA	QA	RA	TA	HA

DC COIL VOLTAGE CODES (AD09-AD65)									
Voltage	12v	24v	48v	72v	110v	125v	200v	220v	
Code	JD	BD	ED	SD	FD	CD	LD	MD	

DC COIL VOLTAGE CODES (AD80-AD100)				
Voltage	AC 24V-25V (50-60Hz) DC 24V	AC 46V-50V (50-60Hz) DC 48V	AC 110V-127V (50-60Hz) DC 110V-120V	AC 200V-250V (50-60Hz) DC 200V-220V
80A-100A	BS	ES	FS	LS

Coil Suppressor

MODEL	VOLTAGE	APPLICATION
ACS 240	MAX. 240V	AC09-AC100

Function and Feature

- Prevents surge voltage caused by coil operation, which interferes with other surrounding electronic equipment (CNC processing machine, wire cutting machine)
- Built-in style and easy to install
- IP 20 level with cover case
- Used in AC coil
- Comparison of coil characteristic with and without surge unit (waveform when the coil is turned OFF)

Waveform without the surge unit



When the coil is OFF, it will generate a surge that will interfere surrounding equipment

Waveform with the surge unit



Absorb the surge and protect surrounding equipment



Auxiliary Contact Unit



TYPE			2P Front			4P Front				Side
Model			AMF20	AMF11	AMF02	AMF40	AMF31	AMF22	AMF13	AMS11
Contact			2NO	1NO1NC	2NC	4NO	3NO1NC	2NO2NC	1NO3NC	1NO1NC
Appliance			AC & AD Contractors and ARC Control Relays							
Rated Capacity (A)	AC-15 (IEC)	120V	6							
		240V	3							
		380V	1.9							
		480V	1.5							
		500V	1.4							
		600V	1.2							
	DC-13 (IEC)	125V	0.55							
		250V	0.27							
		400V	0.15							
		500V	0.13							
	600V	0.1								
Contact class		(UL)	A600, Q600							
Rated insulation voltage (Ui)		(V)	690							
Continuous current (Ith)		(A)	10							
Electrical life		10000 times	50							
Mechanical life		10000 times	1000							

Note : The maximum number of auxiliary contact is 6.

Mechanical Latching Device AML

Operation principle

1. Conduct: When the contactor is activated (ON), the mechanism of latching device will be pulled down, pressing onto the contactor to maintain conduction. (The control power can be disconnected)
2. Release: AML will receive a signal and release the latching (the contactor has to be released first), causing the contactor to disconnect

Feature

1. The contactor conduct and locks under the action of the mechanical latching device
2. When the control power is disconnected, the contactor is still in conduction status (energy saving and quiet)
3. Top mounted to remain in the same installation space
4. Disconnect by receiving a signal (pulse)

Performance

1. Rated insulation voltage (Ui) 690V
2. Maximum operation frequency 360 times/Hr

Application

All AC, AD and ARC Contactors

Precautions

1. The time between power on and off of the control circuit must be greater than 100ms
2. The coil of contactor and latching device cannot be power on at the same time
3. When the main circuit is conducting, the reset linkage cannot be touch by hands, to avoid electric shock
4. If there is a power outage, use the reset linkage to reset the device before resumption of electricity, to avoid damage of equipment or any other danger



Mechanical Latching Device Coil Specification

AC COIL VOLTAGE CODES				
Voltage (50/60 Hz)	24V - 32V	110V - 127V	220V - 277V	380V - 480V
Code	BA	FA	MA	QA

DC COIL VOLTAGE CODES		
Voltage	24V - 36V	42V - 48V
Code	BD	ED

Notes : 1. ** = Add coil voltage code



Thermal Overload Relay (ATR)



Model		ATR-1	ATR-2	ATR-2(L)	ATR-3	ATR-3(L)			
3 Heaters & Differential	Contactor combination type	ATR-1****	ATR-2****	ATR-2****L	ATR-3****	ATR-3****L			
	Separate installation type	ATR-1****B	ATR-2****B	ATR-2****BL	ATR-3****B	ATR-3****BL			
Rated insulation voltage		690V							
Applicable contactor		AC09 AC12 AC18 AC25 AC28 AC32	AC40 AC50 AC65	AC40L AC50L AC65L	AC80 AC100	AC80L AC100L			
Tripping class		Class 10							
Thermal Overboard Adjusting Range		Current Range P/N Code (****)	Nom. Rating (A)	OL Current Range (A)	ATR-1	ATR-2	ATR-2(L)	ATR-3	ATR-3(L)
		0025	0.25	0.19-0.31					
		0040	0.4	0.3-0.5					
		0060	0.6	0.45-0.75					
		0090	0.9	0.7-1.1					
		0120	1.2	0.9-1.5					
		0170	1.7	1.3-2.1					
		0210	2.1	1.6-2.6					
		0330	3.3	2.5-4.1					
		0440	4.4	3.4-5.4					
		0650	6.5	5-8					
		0900	9	7-11					
		1100	11	9-13					
		1500	15	12-18					
		2100	21	17-24					
		2800	28	23-33					
		3500	35	30-40					
		4300	43	38-48					
		5400	54	43-65					
		7200	72	62-82					
9500	95	80-100							
Dimension (mm)		45 x 84 x 66	55 x 87 x 72	55 x 87 x 72	123 x 118 x 102		123 x 118 x 102		
Weight (g)		155	180	195	855		871		
Auxiliary contact	Auxiliary Contact		1NO & 1NC	1NO & 1NC	1NO & 1NC	1NO & 1NC		1NO & 1NC	
	IEC 60947-5-1 EN 60947-5-1 AC 15 (A)	120V	3	3	3	3		3	
		240V	1.5	1.5	1.5	1.5		1.5	
		480V	0.75	0.75	0.75	0.75		0.75	
		600V	0.6	0.6	0.6	0.6		0.6	
		Continuous current (Ith) (A)	5	5	5	5		5	
	Contact class (UL)		B600, R300	B600, R300	B600, R300	B600, R300		B600, R300	
Overload Mounting Base Plate		ATMP1	ATMP2	ATMP2L	-		-		

Note : Model name "B" means the overload is mounted on a Base Plate as a separate installation unit.

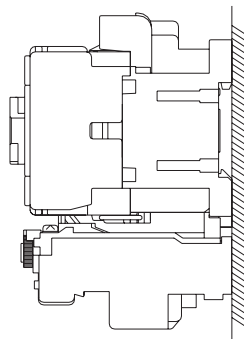
Installation Notes

Operating Environment

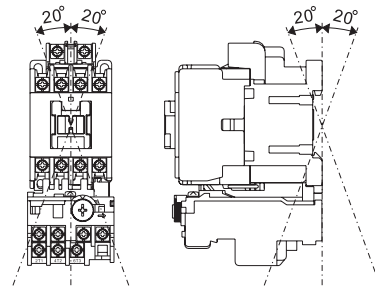
- Altitude below 3000m
- Ambient temperature: $-30^{\circ}\text{C}\sim+70^{\circ}\text{C}$
- Storage temperature: $-50^{\circ}\text{C}\sim+80^{\circ}\text{C}$
- Relative humidity: 50~90%RH
- Withstand vibration 10Hz~55Hz 2G
- Withstand impact 5G
- Please do not install in a place that contains dust, moisture, salt, oil stains, or corrosive or flammable gases.
- After switch installed, please add temporary protection to avoid harmful substances like dust or moisture etc coming into contact with it, if the switch is not to be used for a long period of time.
- Coil operating voltage should be applied within 85~110% of rated voltage. If higher than 110%, the coil life will be reduced, or the coil could burn out if lower than 85%.

Installation Direction

The regular installation direction of the contactor is vertical, but is allowed 20° tilt along all directions. Refer to the figure below.



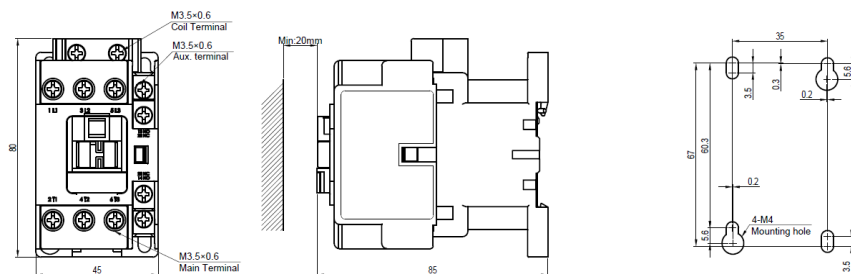
Regular Installation ○



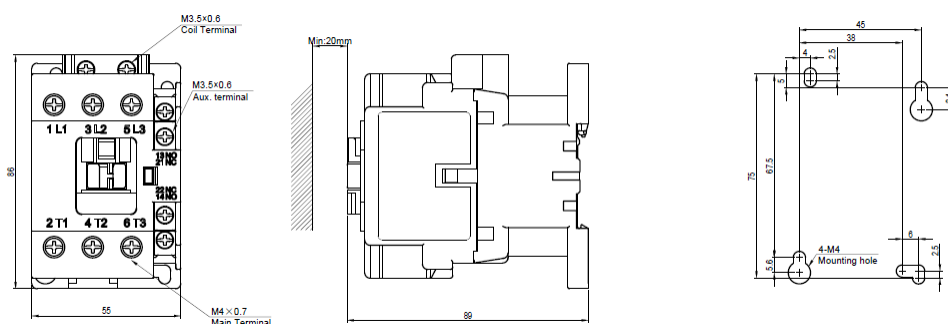
Tilt Installation ○

Dimensions (mm): 3 Pole, AC Coil

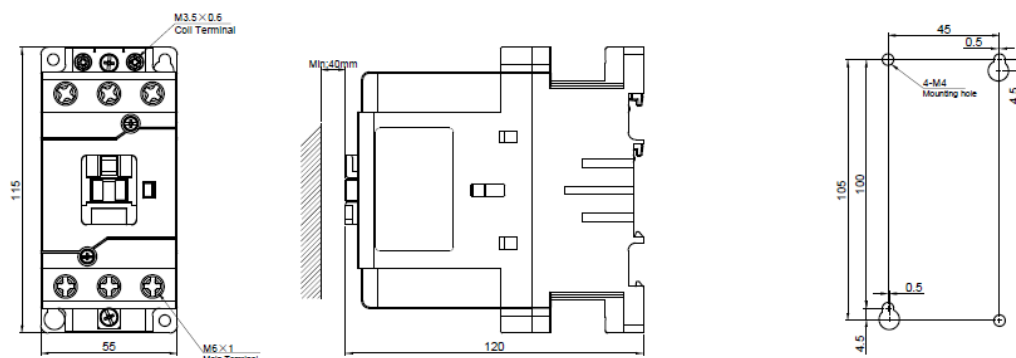
AC09A11 - AC18A11



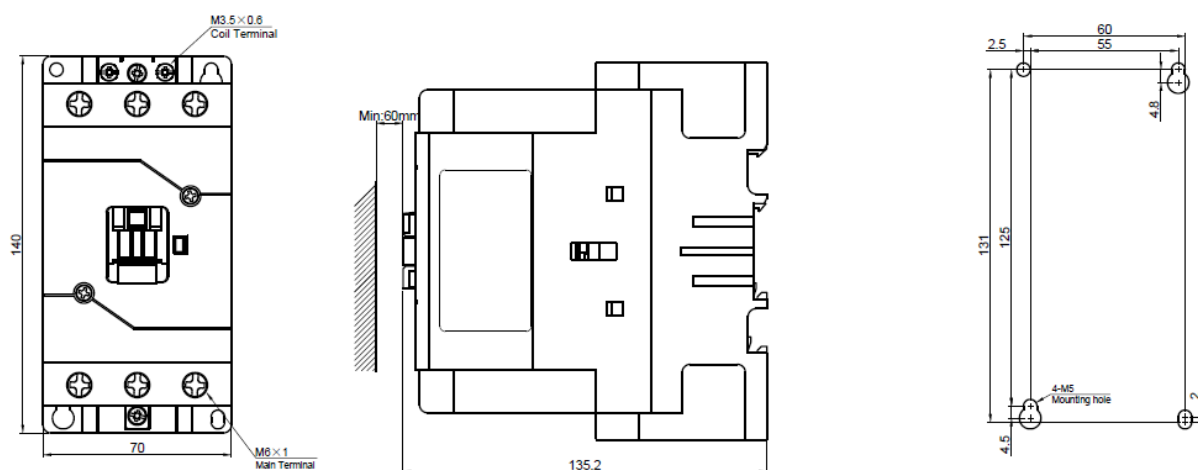
AC25A11 - AC38A11



AC40A00(L) - AC65A00(L)

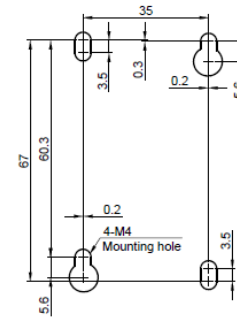
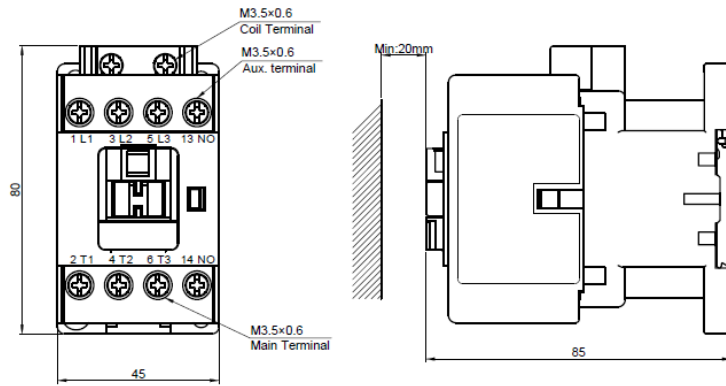


AC80A00(L) - AC100A00(L)

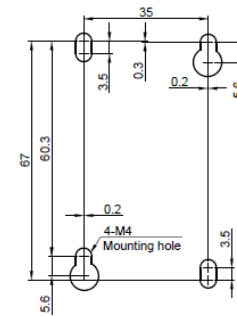
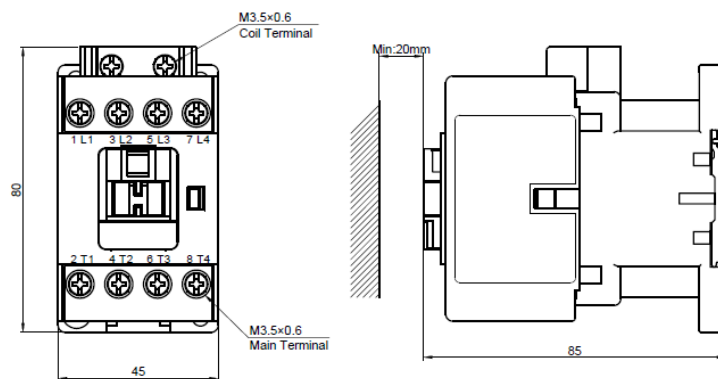


Dimensions (mm): 4 Pole, AC Coil

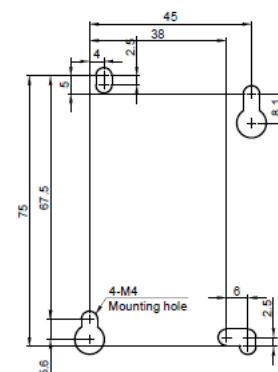
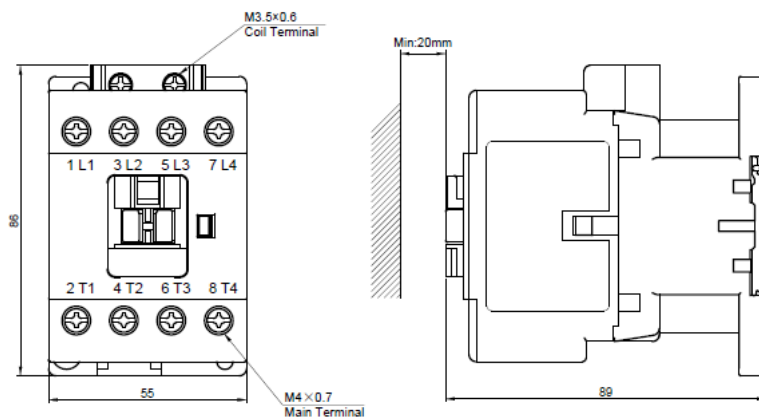
AC09B10 - AC18B10
AC09B01 - AC18B01



AC09C00 - AC18C00
AC09D00 - AC18D00

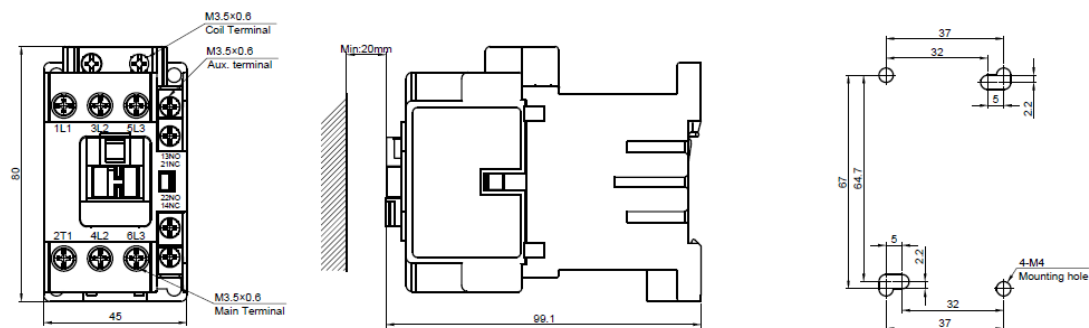


AC25C00 - AC40C00
AC25D00 - AC40D00

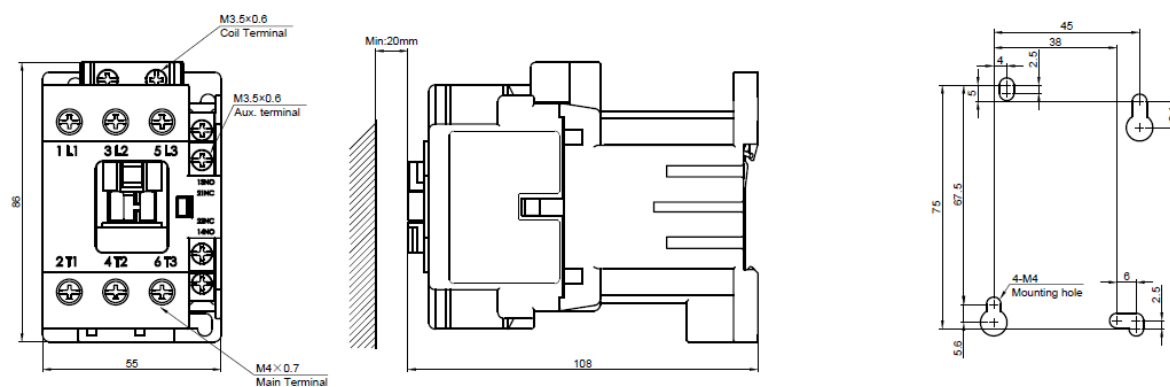


Dimensions (mm): 3 Pole, DC Coil

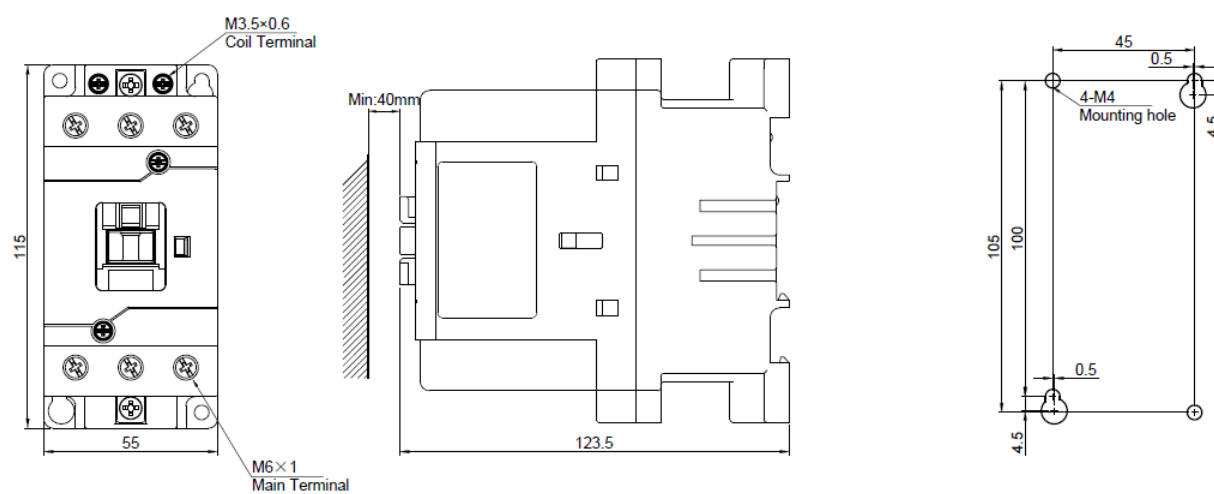
AD09A11 - AD18A11



AD25A11 - AD38A11

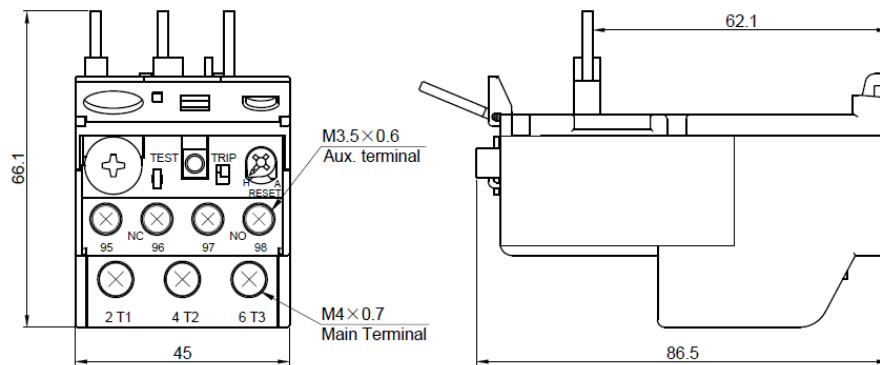


AD40A00 (L) - AD65A00 (L)

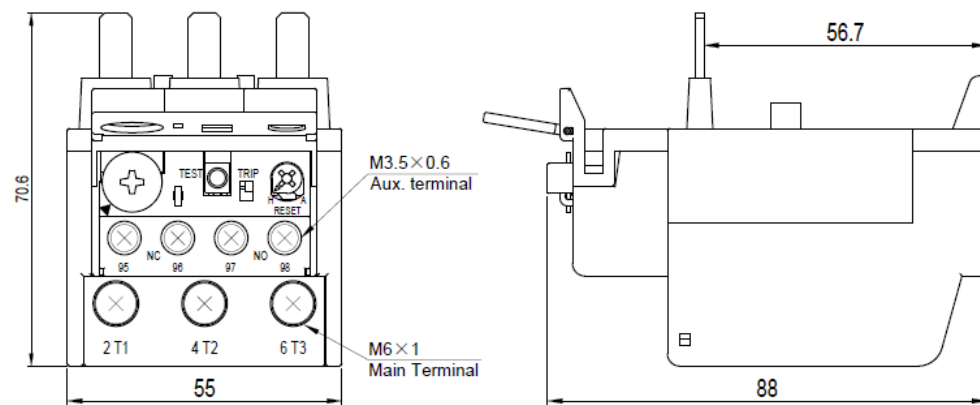


Dimensions (mm): Thermal Overload Relay

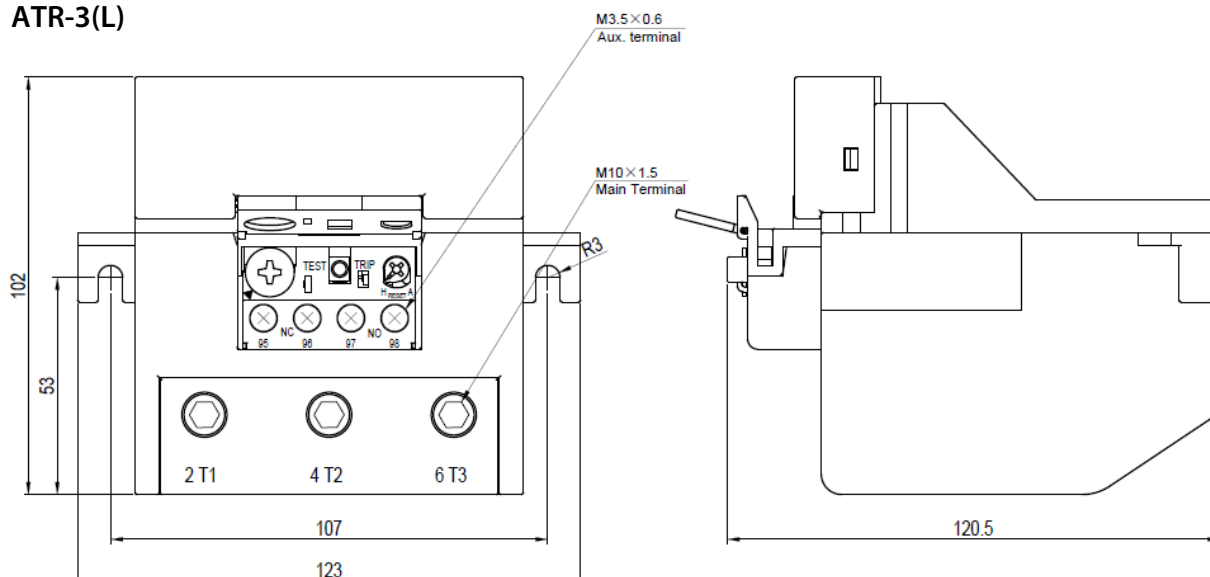
ATR-1



ATR-2(L)



ATR-3(L)





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