











A9 ... A30 3-pole contactors

Technical data

Connecting characteristics













Contactor types	AC operated	A9	A12	A16	A26	A30
Main terminals		 Screw terminals with cable clamp				 Screw terminals with double connector 2 x (5.6 x 6.5 mm)
Connection capacity (min. ... max.)						
Main conductors (poles)						
 Rigid Solid ($\leq 4 \text{ mm}^2$)	} 1 x	1...4 mm ²			1.5...6 mm ²	2.5...16 mm ²
 Stranded ($\geq 6 \text{ mm}^2$)		2 x	1...4 mm ²			1.5...6 mm ²
 Flexible with ferrule	1 x	0.75...2.5 mm ²			0.75...4 mm ²	2.5...10 mm ²
 Flexible with ferrule	2 x	0.75...2.5 mm ²			0.75...4 mm ²	2.5...10 mm ²
 Bars or lugs	L <	7.7 mm			10 mm	-
	I <	3.7 mm			4.2 mm	-
Connection capacity acc. to UL / CSA	1 or 2 x	AWG 18...10			AWG 12...8	AWG 8...4
Tightening torque	Recommended	1 Nm / 9 lb.in			1.7 Nm / 15 lb.in	2.3 Nm / 20 lb.in
	Max.	1.2 Nm			2.20 Nm	2.60 Nm
Auxiliary conductors (built-in auxiliary terminals + coil terminals)						
 Rigid solid	1 x	1...4 mm ²				
	2 x	1...4 mm ²				
 Flexible with ferrule	1 x	0.75...2.5 mm ²				
	2 x	0.75...2.5 mm ²				
 Lugs	L <	7.7 mm			(1)	8 mm
	I <	3.7 mm			(1)	3.7 mm
Connection capacity acc. to UL / CSA	1 or 2 x	AWG 18...14				
Tightening torque	Coil terminals	Recommended	1 Nm / 9 lb.in			
		Max.	1.20 Nm			
Built-in auxiliary terminals	Recommended	1 Nm / 9 lb.in			1.7 Nm / 15 lb.in	1 Nm / 9 lb.in
	Max.	1.20 Nm			2.20 Nm	1.20 Nm
Degree of protection						
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529						
Main terminals		IP20				
Coil terminals		IP20				
Built-in auxiliary terminals		IP20				
Screw terminals		Delivered in open position, screws of unused terminals must be tightened				
Main terminals		M3.5			M4	M5
	Screwdriver type	Flat Ø 5.5 / Pozidriv 2				Flat Ø 6.5 / Pozidriv 2
Coil terminals		M3.5				
	Screwdriver type	Flat Ø 5.5 / Pozidriv 2				
Built-in auxiliary terminals		M3.5			M4	M3.5
	Screwdriver type	Flat Ø 5.5 / Pozidriv 2				

(1) L ≤ 8 and I > 3.7 for coil terminals - L ≤ 10 and I > 4.2 for built-in auxiliary terminals.

A40 ... A110 3-pole contactors

Technical data

Connecting characteristics

Contactor types	AC operated	A40	A50	A63	A75	A95	A110	
Main terminals		 Screw terminals with double connector 2 x (5.6 x 6.5 mm)	 Screw terminals with single connector (13 x 10 mm)			 Screw terminals with single connector (14 x 14 mm)		
Connection capacity (min. ... max.)								
Main conductors (poles)								
 Rigid	Solid ($\leq 4 \text{ mm}^2$)	} 1 x 2.5...16 mm ²	} 6...50 mm ²			} 10...95 mm ²		
 Stranded ($\geq 6 \text{ mm}^2$)								} 2 x 2.5...16 mm ²
 Flexible with ferrule		1 x 2.5...10 mm ²	6...35 mm ²		10...70 mm ² (1)			
 Flexible without ferrule		2 x 2.5...10 mm ²	6...16 mm ²		6...35 mm ² (1)			
 Bars or lugs		L < -	-		-	30 mm (2)		
		l < -	-		-	6 mm		
Connection capacity acc. to UL / CSA	1 or 2 x	AWG 8...4	AWG 8...1			AWG 6...2/0		
Tightening torque	Recommended	2.30 Nm / 20 lb.in	4.00 Nm / 35 lb.in			8 Nm / 71 lb.in		
	Max.	2.60 Nm	4.50 Nm			9 Nm		
Auxiliary conductors								
(built-in auxiliary terminals + coil terminals)								
 Rigid solid		1 x 1...4 mm ²				0.75...2.5 mm ²		
		2 x 1...4 mm ²				0.75...2.5 mm ²		
 Flexible with ferrule		1 x 0.75...2.5 mm ²	1...2.5 mm ²			0.75...2.5 mm ²		
 Flexible without ferrule		2 x 0.75...2.5 mm ²						
 Lugs		L < 8 mm						
		l < 3.7 mm						
Connection capacity acc. to UL / CSA	1 or 2 x	AWG 18...14						
Tightening torque								
Coil terminals	Recommended	1.00 Nm / 9 lb.in						
	Max.	1.20 Nm						
Built-in auxiliary terminals	Recommended	1.00 Nm / 9 lb.in	-			-		
	Max.	1.20 Nm	-			-		
Degree of protection								
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529								
Main terminals		IP20	IP10					
Coil terminals		IP20						
Built-in auxiliary terminals		IP20	-			-		
Screw terminals								
Main terminals		Delivered in open position, screws of unused terminals must be tightened						
		M5	M6			M8		
	Screwdriver type	Flat Ø 6.5 / Pozidriv 2				Hexagon socket (s = 4 mm)		
Coil terminals		M3.5						
	Screwdriver type	Flat Ø 5.5 / Pozidriv 2						
Built-in auxiliary terminals		M3.5	-					
	Screwdriver type	Flat Ø 5.5 / Pozidriv 2	-					

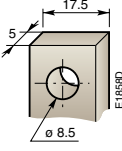
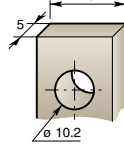





(1) A95 / A110: use flexible without ferrule.

(2) With LW110 enlargement piece, see "Accessories".

A145 ... A300 3-pole contactors

Technical data

Connecting characteristics

Contactor types	AC operated	A145	A185	A210	A260	A300
Main terminals Flat type						
Connection capacity (min. ... max.)						
Main conductors (poles)						
 Rigid with connector	Single for Cu cable	6...185 mm ²		16...240 mm ²		
	Single for Al/Cu cable	25...150 mm ²		120...240 mm ²		
	Double for Al/Cu cable	–		2 x 95...120 mm ²		
 Bars or lugs	L ≤	24 mm		32 mm		
	Ø >	8 mm		10 mm		
Connection capacity acc. to UL / CSA	1 or 2 x	6 - 250 MCM		4 - 500 MCM (1)		
Tightening torque	Recommended	18 Nm / 160 lb.in		28 Nm / 247 lb.in		
	Max.	20 Nm		30 Nm		
Auxiliary conductors (coil terminals)						
 Rigid solid	1 x	1...4 mm ²				
	2 x	1...4 mm ²				
 Flexible with ferrule	1 x	0.75...2.5 mm ²				
	2 x	0.75...2.5 mm ²				
 Lugs	L ≤	8 mm				
	l >	3.7 mm				
Connection capacity acc. to UL / CSA	1 or 2 x	AWG 18...14				
Tightening torque	Recommended	1.00 Nm / 9 lb.in				
	Max.	1.20 Nm				
Degree of protection acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529						
Main terminals		IP00				
Coil terminals		IP20				
Screw terminals						
Main terminals		M8		M10		
		Screws and bolts				
Coil terminals (delivered in open position)		M3.5				
	Screwdriver type	Flat Ø 5.5 mm / Pozidriv 2				

(1) With LW110 enlargement piece: see "Accessories".