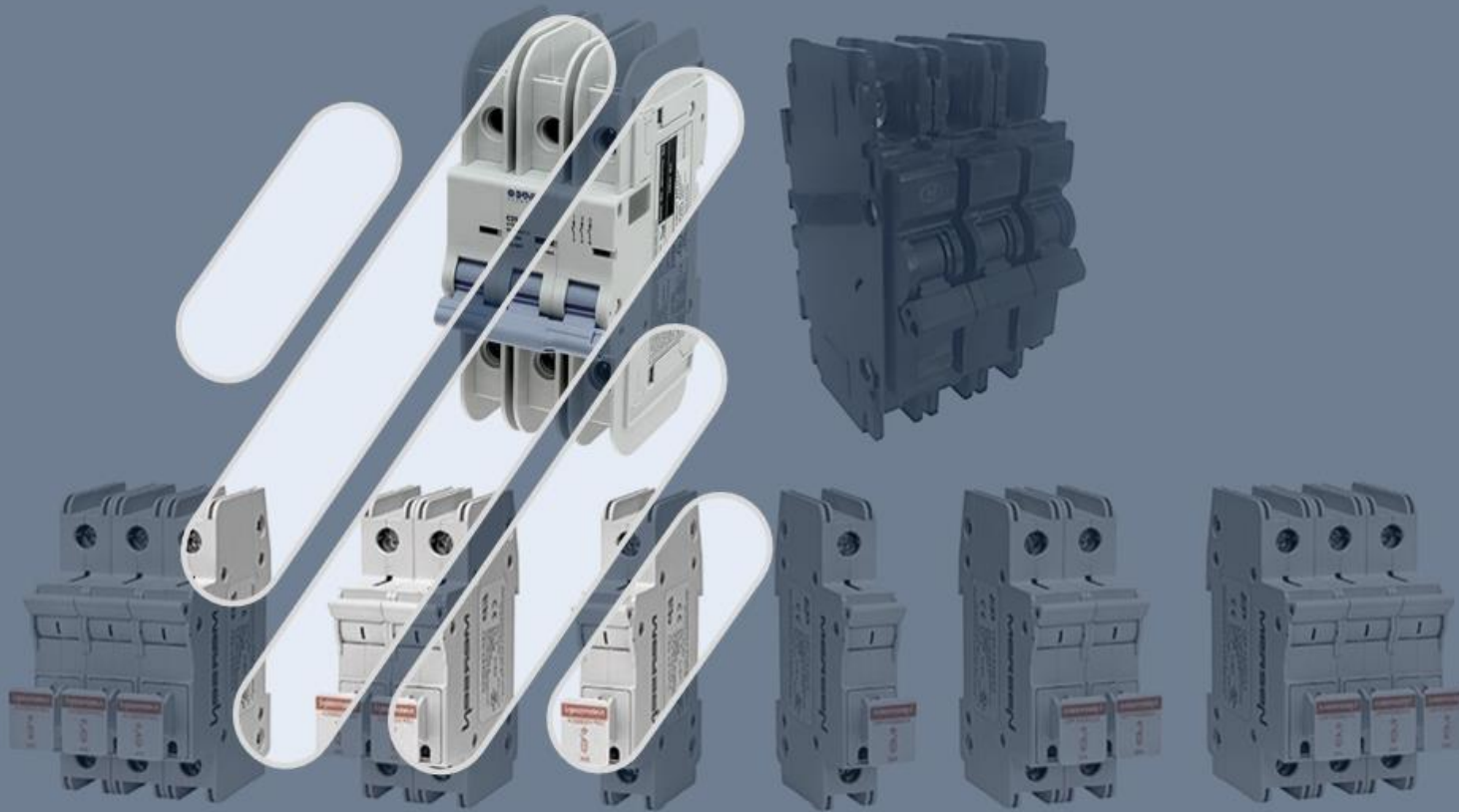


MCA

Electrical Distribution . Controls . Metal Fabrication



CIRCUIT BREAKER TECHNICAL CROSS

MCA FABRICATION ABB S200U SERIES BREAKER



ABB S200U SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	K Curve 1 Pole	Z Curve 1 Pole	C Curve 2 Pole	K Curve 2 Pole	Z Curve 2 Pole	C Curve 3 Pole	K Curve 3 Pole	Z Curve 3 Pole
0.1											
0.2	X			S201U-K0.2			S202U-K0.2			S203U-K0.2	
0.3	X			S201U-K0.3			S202U-K0.3			S203U-K0.3	
0.5	X		S201U-C0.5	S201U-K0.5	S201U-Z0.5	S202U-C0.5	S202U-K0.5	S202U-Z0.5	S203U-C0.5	S203U-K0.5	S203U-Z0.5
0.75	X			S201U-K0.75			S202U-K0.75			S203U-K0.75	
1	X		S201U-C1	S201U-K1	S201U-Z1	S202U-C1	S202U-K1	S202U-Z1	S203U-C1	S203U-K1	S203U-Z1
1.2	X										
1.5	X										
1.6	X		S201U-C1.6	S201U-K1.6	S201U-Z1.6	S202U-C1.6	S202U-K1.6	S202U-Z1.6	S203U-C1.6	S203U-K1.6	S203U-Z1.6
2	X		S201U-C2	S201U-K2	S201U-Z2	S202U-C2	S202U-K2	S202U-Z2	S203U-C2	S203U-K2	S203U-Z2
2.5	X										
3	X		S201U-C3	S201U-K3	S201U-Z3	S202U-C3	S202U-K3	S202U-Z3	S203U-C3	S203U-K3	S203U-Z3
3.5	X										
4	X		S201U-C4	S201U-K4	S201U-Z4	S202U-C4	S202U-K4	S202U-Z4	S203U-C4	S203U-K4	S203U-Z4
5	X		S201U-C5	S201U-K5	S201U-Z5	S202U-C5	S202U-K5	S202U-Z5	S203U-C5	S203U-K5	S203U-Z5
6	X		S201U-C6	S201U-K6	S201U-Z6	S202U-C6	S202U-K6	S202U-Z6	S203U-C6	S203U-K6	S203U-Z6
7	X										
8	X		S201U-C8	S201U-K8	S201U-Z8	S202U-C8	S202U-K8	S202U-Z8	S203U-C8	S203U-K8	S203U-Z8
9	X										
10	X		S201U-C10	S201U-K10	S201U-Z10	S202U-C10	S202U-K10	S202U-Z10	S203U-C10	S203U-K10	S203U-Z10
12	X										
13	X		S201U-C13	S201U-K13	S201U-Z13	S202U-C13	S202U-K13	S202U-Z13	S203U-C13	S203U-K13	S203U-Z13
14	X										
15	X		S201U-C15	S201U-K15	S201U-Z15	S202U-C15	S202U-K15	S202U-Z15	S203U-C15	S203U-K15	S203U-Z15
16	X		S201U-C16	S201U-K16	S201U-Z16	S202U-C16	S202U-K16	S202U-Z16	S203U-C16	S203U-K16	S203U-Z16
20	X		S201U-C20	S201U-K20	S201U-Z20	S202U-C20	S202U-K20	S202U-Z20	S203U-C20	S203U-K20	S203U-Z20
25	X		S201U-C25	S201U-K25	S201U-Z25	S202U-C25	S202U-K25	S202U-Z25	S203U-C25	S203U-K25	S203U-Z25
30	X		S201U-C30	S201U-K30	S201U-Z30	S202U-C30	S202U-K30	S202U-Z30	S203U-C30	S203U-K30	S203U-Z30
32	X		S201U-C32	S201U-K32	S201U-Z32	S202U-C32	S202U-K32	S202U-Z32	S203U-C32	S203U-K32	S203U-Z32
35	X										
40	X		S201U-C40	S201U-K40	S201U-Z40	S202U-C40	S202U-K40	S202U-Z40	S203U-C40	S203U-K40	S203U-Z40
45	X										
50	X		S201U-C50	S201U-K50	S201U-Z50	S202U-C50	S202U-K50	S202U-Z50	S203U-C50	S203U-K50	S203U-Z50
55	X										
60	X		S201U-C60	S201U-K60	S201U-Z60	S202U-C60	S202U-K60	S202U-Z60	S203U-C60	S203U-K60	S203U-Z60
63	X		S201U-C63	S201U-K63	S201U-Z63	S202U-C63	S202U-K63	S202U-Z63	S203U-C63	S203U-K63	S203U-Z63
70											
80											
90											
100											
110											
125											



ABB S200U - TECHNICAL REFERENCE	
Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 40, 50, 60, 63 @ 120/240 VAC
Voltage	120/240 VAC
Short Circuit	10kA
Poles	1,2,3,4
Curves	C, K, Z
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	18-4 AWG
Tightening Torque	2.8Nm
Certifications	UL489, CSA22.2, VDE, CCC, GB14048.2, IEC60947-2
Calibration Temperature	25 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION ABB S200UP SERIES BREAKER



ABB S200UP SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	C Curve			K Curve			Z Curve		
			1 Pole	1 Pole	1 Pole	2 Pole	2 Pole	2 Pole	3 Pole	3 Pole	3 Pole
0.1											
0.2	X			S201UP-K0.2			S202UP-K0.2			S203UP-K0.2	
0.3	X			S201UP-K0.3			S202UP-K0.3			S203UP-K0.3	
0.5	X		S201UP-C0.5	S201UP-K0.5	S201UP-Z0.5	S202UP-C0.5	S202UP-K0.5	S202UP-Z0.5	S203UP-C0.5	S203UP-K0.5	S203UP-Z0.5
0.75	X			S201UP-K0.75			S202UP-K0.75			S203UP-K0.75	
1	X		S201UP-C1	S201UP-K1	S201UP-Z1	S202UP-C1	S202UP-K1	S202UP-Z1	S203UP-C1	S203UP-K1	S203UP-Z1
1.2	X										
1.5	X										
1.6	X		S201UP-C1.6	S201UP-K1.6	S201UP-Z1.6	S202UP-C1.6	S202UP-K1.6	S202UP-Z1.6	S203UP-C1.6	S203UP-K1.6	S203UP-Z1.6
2	X		S201UP-C2	S201UP-K2	S201UP-Z2	S202UP-C2	S202UP-K2	S202UP-Z2	S203UP-C2	S203UP-K2	S203UP-Z2
2.5	X										
3	X		S201UP-C3	S201UP-K3	S201UP-Z3	S202UP-C3	S202UP-K3	S202UP-Z3	S203UP-C3	S203UP-K3	S203UP-Z3
3.5	X										
4	X		S201UP-C4	S201UP-K4	S201UP-Z4	S202UP-C4	S202UP-K4	S202UP-Z4	S203UP-C4	S203UP-K4	S203UP-Z4
5	X		S201UP-C5	S201UP-K5	S201UP-Z5	S202UP-C5	S202UP-K5	S202UP-Z5	S203UP-C5	S203UP-K5	S203UP-Z5
6	X		S201UP-C6	S201UP-K6	S201UP-Z6	S202UP-C6	S202UP-K6	S202UP-Z6	S203UP-C6	S203UP-K6	S203UP-Z6
7	X										
8	X		S201UP-C8	S201UP-K8	S201UP-Z8	S202UP-C8	S202UP-K8	S202UP-Z8	S203UP-C8	S203UP-K8	S203UP-Z8
9	X										
10	X		S201UP-C10	S201UP-K10	S201UP-Z10	S202UP-C10	S202UP-K10	S202UP-Z10	S203UP-C10	S203UP-K10	S203UP-Z10
12	X										
13	X		S201UP-C13	S201UP-K13	S201UP-Z13	S202UP-C13	S202UP-K13	S202UP-Z13	S203UP-C13	S203UP-K13	S203UP-Z13
14	X										
15	X		S201UP-C15	S201UP-K15	S201UP-Z15	S202UP-C15	S202UP-K15	S202UP-Z15	S203UP-C15	S203UP-K15	S203UP-Z15
16	X		S201UP-C16	S201UP-K16	S201UP-Z16	S202UP-C16	S202UP-K16	S202UP-Z16	S203UP-C16	S203UP-K16	S203UP-Z16
20	X		S201UP-C20	S201UP-K20	S201UP-Z20	S202UP-C20	S202UP-K20	S202UP-Z20	S203UP-C20	S203UP-K20	S203UP-Z20
25	X		S201UP-C25	S201UP-K25	S201UP-Z25	S202UP-C25	S202UP-K25	S202UP-Z25	S203UP-C25	S203UP-K25	S203UP-Z25
30											
32											
35											
40											
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



ABB S200UP - TECHNICAL REFERENCE	
Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25 @ 277/480 VAC
Voltage	277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3,4
Curves	C, K, Z
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	18-4 AWG
Tightening Torque	2.8Nm
Certifications	UL489, CSA22.2, VDE, CCC, GB14048.2, IEC60947-2
Calibration Temperature	25 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION ABB SU200M SERIES BREAKER



ABB SU200M SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	K Curve 1 Pole	Z Curve 1 Pole	C Curve 2 Pole	K Curve 2 Pole	Z Curve 2 Pole	C Curve 3 Pole	K Curve 3 Pole	Z Curve 3 Pole
0.1											
0.2	X	X		SU201M-K0.2			SU202M-K0.2			SU203M-K0.2	
0.3	X	X		SU201M-K0.3			SU202M-K0.3			SU203M-K0.3	
0.5	X	X	SU201M-C0.5	SU201M-K0.5	SU201M-Z0.5	SU202M-C0.5	SU202M-K0.5	SU202M-Z0.5	SU203M-C0.5	SU203M-K0.5	SU203M-Z0.5
0.75	X	X		SU201M-K0.75			SU202M-K0.75			SU203M-K0.75	
1	X	X	SU201M-C1	SU201M-K1	SU201M-Z1	SU202M-C1	SU202M-K1	SU202M-Z1	SU203M-C1	SU203M-K1	SU203M-Z1
1.2	X	X									
1.5	X	X									
1.6	X	X	SU201M-C1.6	SU201M-K1.6	SU201M-Z1.6	SU202M-C1.6	SU202M-K1.6	SU202M-Z1.6	SU203M-C1.6	SU203M-K1.6	SU203M-Z1.6
2	X	X	SU201M-C2	SU201M-K2	SU201M-Z2	SU202M-C2	SU202M-K2	SU202M-Z2	SU203M-C2	SU203M-K2	SU203M-Z2
2.5	X	X									
3	X	X	SU201M-C3	SU201M-K3	SU201M-Z3	SU202M-C3	SU202M-K3	SU202M-Z3	SU203M-C3	SU203M-K3	SU203M-Z3
3.5	X	X									
4	X	X	SU201M-C4	SU201M-K4	SU201M-Z4	SU202M-C4	SU202M-K4	SU202M-Z4	SU203M-C4	SU203M-K4	SU203M-Z4
5	X	X	SU201M-C5	SU201M-K5	SU201M-Z5	SU202M-C5	SU202M-K5	SU202M-Z5	SU203M-C5	SU203M-K5	SU203M-Z5
6	X	X	SU201M-C6	SU201M-K6	SU201M-Z6	SU202M-C6	SU202M-K6	SU202M-Z6	SU203M-C6	SU203M-K6	SU203M-Z6
7	X	X									
8	X	X	SU201M-C8	SU201M-K8	SU201M-Z8	SU202M-C8	SU202M-K8	SU202M-Z8	SU203M-C8	SU203M-K8	SU203M-Z8
9	X	X									
10	X	X	SU201M-C10	SU201M-K10	SU201M-Z10	SU202M-C10	SU202M-K10	SU202M-Z10	SU203M-C10	SU203M-K10	SU203M-Z10
12	X	X									
13	X	X	SU201M-C13	SU201M-K13	SU201M-Z13	SU202M-C13	SU202M-K13	SU202M-Z13	SU203M-C13	SU203M-K13	SU203M-Z13
14	X	X									
15	X	X	SU201M-C15	SU201M-K15	SU201M-Z15	SU202M-C15	SU202M-K15	SU202M-Z15	SU203M-C15	SU203M-K15	SU203M-Z15
16	X	X	SU201M-C16	SU201M-K16	SU201M-Z16	SU202M-C16	SU202M-K16	SU202M-Z16	SU203M-C16	SU203M-K16	SU203M-Z16
20	X	X	SU201M-C20	SU201M-K20	SU201M-Z20	SU202M-C20	SU202M-K20	SU202M-Z20	SU203M-C20	SU203M-K20	SU203M-Z20
25	X	X	SU201M-C25	SU201M-K25	SU201M-Z25	SU202M-C25	SU202M-K25	SU202M-Z25	SU203M-C25	SU203M-K25	SU203M-Z25
30	X		SU201M-C30	SU201M-K30	SU201M-Z30	SU202M-C30	SU202M-K30	SU202M-Z30	SU203M-C30	SU203M-K30	SU203M-Z30
32	X		SU201M-C32	SU201M-K32	SU201M-Z32	SU202M-C32	SU202M-K32	SU202M-Z32	SU203M-C32	SU203M-K32	SU203M-Z32
35	X										
40	X		SU201M-C40	SU201M-K40	SU201M-Z40	SU202M-C40	SU202M-K40	SU202M-Z40	SU203M-C40	SU203M-K40	SU203M-Z40
45	X										
50	X		SU201M-C50	SU201M-K50	SU201M-Z50	SU202M-C50	SU202M-K50	SU202M-Z50	SU203M-C50	SU203M-K50	SU203M-Z50
55	X										
60	X		SU201M-C60	SU201M-K60	SU201M-Z60	SU202M-C60	SU202M-K60	SU202M-Z60	SU203M-C60	SU203M-K60	SU203M-Z60
63	X		SU201M-C63	SU201M-K63	SU201M-Z63	SU202M-C63	SU202M-K63	SU202M-Z63	SU203M-C63	SU203M-K63	SU203M-Z63
70											
80											
90											
100											
110											
125											



ABB SU200M - TECHNICAL REFERENCE

Amps	.2, .3, .5, .75, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, @ 120/240/277/480 VAC 35, 40, 50, 60, 63 @ 120/240VAC & 48/96 VDC
Voltage	120/240/277/480 VAC Wye, 48/96VDC
Short Circuit	10kA
Poles	1,2,3,4
Curves	C, K, Z
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.5mm
Wire Size	16-4 AWG
Tightening Torque	2.8Nm
Certifications	UL489, CSA22.2, IEC60947-2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION ALTECH L SERIES BREAKER



ALTECH L SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2	X	X	1CU02L	1DU02L	2CU02L	2DU02L	3CU02L	3DU02L
0.3	X	X						
0.5	X	X	1CU05L	1DU05L	2CU05L	2DU05L	3CU05L	3DU05L
0.75	X	X						
1	X	X	1CU1L	1DU1L	2CU1L	2DU1L	3CU1L	3DU1L
1.2	X	X						
1.5	X	X						
1.6	X	X	1CU1.6L	1DU1.6L	2CU1.6L	2DU1.6L	3CU1.6L	3DU1.6L
2	X	X	1CU2L	1DU2L	2CU2L	2DU2L	3CU2L	3DU2L
2.5	X	X						
3	X	X	1CU3L	1DU3L	2CU3L	2DU3L	3CU3L	3DU3L
3.5	X	X						
4	X	X	1CU4L	1DU4L	2CU4L	2DU4L	3CU4L	3DU4L
5	X	X	1CU5L	1DU5L	2CU5L	2DU5L	3CU5L	3DU5L
6	X	X	1CU6L	1DU6L	2CU6L	2DU6L	3CU6L	3DU6L
7	X	X						
8	X	X	1CU8L	1DU8L	2CU8L	2DU8L	3CU8L	3DU8L
9	X	X						
10	X	X	1CU10L	1DU10L	2CU10L	2DU10L	3CU10L	3DU10L
12	X	X	1CU12L	1DU12L	2CU12L	2DU12L	3CU12L	3DU12L
13	X	X	1CU13L	1DU13L	2CU13L	2DU13L	3CU13L	3DU13L
14	X	X						
15	X	X	1CU15L	1DU15L	2CU15L	2DU15L	3CU15L	3DU15L
16	X	X	1CU16L	1DU16L	2CU16L	2DU16L	3CU16L	3DU16L
20	X	X	1CU20L	1DU20L	2CU20L	2DU20L	3CU20L	3DU20L
25	X	X	1CU25L	1DU25L	2CU25L	2DU25L	3CU25L	3DU25L
30	X	X	1CU30L	1DU30L	2CU30L	2DU30L	3CU30L	3DU30L
32	X	X	1CU32L	1DU32L	2CU32L	2DU32L	3CU32L	3DU32L
35	X							
40	X		1CU40L	1DU40L	2CU40L	2DU40L	3CU40L	3DU40L
45	X							
50	X		1CU50L	1DU50L	2CU50L	2DU50L	3CU50L	3DU50L
55	X							
60	X		1CU60L	1DU60L	2CU60L	2DU60L	3CU60L	3DU60L
63	X		1CU63L	1DU63L	2CU63L	2DU63L	3CU63L	3DU63L
70								
80								
90								
100								
110								
125								



ALTECH L - TECHNICAL REFERENCE

Amps	.2, .5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480 VAC 40, 50, 60, 63 @ 120/240 VAC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	No
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +60 deg C

MCA FABRICATION ALTECH UL SERIES BREAKER



ALTECH UL SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2	X	X	1C02UL	1D02UL	2C02UL	2D02UL	3C02UL	3D02UL
0.3	X	X						
0.5	X	X	1C05UL	1D05UL	2C05UL	2D05UL	3C05UL	3D05UL
0.75	X	X						
1	X	X	1C1UL	1D1UL	2C1UL	2D1UL	3C1UL	3D1UL
1.2	X	X						
1.5	X	X						
1.6	X	X	1C1.6UL	1D1.6UL	2C1.6UL	2D1.6UL	3C1.6UL	3D1.6UL
2	X	X	1C2UL	1D2UL	2C2UL	2D2UL	3C2UL	3D2UL
2.5	X	X						
3	X	X	1C3UL	1D3UL	2C3UL	2D3UL	3C3UL	3D3UL
3.5	X	X						
4	X	X	1C4UL	1D4UL	2C4UL	2D4UL	3C4UL	3D4UL
5	X	X	1C5UL	1D5UL	2C5UL	2D5UL	3C5UL	3D5UL
6	X	X	1C6UL	1D6UL	2C6UL	2D6UL	3C6UL	3D6UL
7	X	X						
8	X	X	1C8UL	1D8UL	2C8UL	2D8UL	3C8UL	3D8UL
9	X	X						
10	X	X	1C10UL	1D10UL	2C10UL	2D10UL	3C10UL	3D10UL
12	X	X	1C12UL	1D12UL	2C12UL	2D12UL	3C12UL	3D12UL
13	X	X	1C13UL	1D13UL	2C13UL	2D13UL	3C13UL	3D13UL
14	X	X						
15	X	X	1C15UL	1D15UL	2C15UL	2D15UL	3C15UL	3D15UL
16	X	X	1C16UL	1D16UL	2C16UL	2D16UL	3C16UL	3D16UL
20	X	X	1C20UL	1D20UL	2C20UL	2D20UL	3C20UL	3D20UL
25	X	X	1C25UL	1D25UL	2C25UL	2D25UL	3C25UL	3D25UL
30	X	X	1C30UL	1D30UL	2C30UL	2D30UL	3C30UL	3D30UL
32	X	X	1C32UL	1D32UL	2C32UL	2D32UL	3C32UL	3D32UL
35	X							
40	X		1C40UL	1D40UL	2C40UL	2D40UL	3C40UL	3D40UL
45	X							
50	X		1C50UL	1D50UL	2C50UL	2D50UL	3C50UL	3D50UL
55	X							
60	X		1C60UL	1D60UL	2C60UL	2D60UL	3C60UL	3D60UL
63	X		1C63UL	1D63UL	2C63UL	2D63UL	3C63UL	3D63UL
70								
80								
90								
100								
110								
125								



ALTECH UL - TECHNICAL REFERENCE	
Amps	.3, .5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480 VAC
Voltage	35, 40, 50, 60, 63 @ 120/240 VAC
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxillary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C
Operating Temperature	-25 to +60 deg C

MCA FABRICATION CBI QL SERIES BREAKER



		CBI QL SERIES - PART NUMBER REFERENCE						
Rated Current	Voltage 240	Voltage 277	1 Curve 1 Pole	9 Curve 1 Pole	K Curve 1 Pole	1 Curve 2 Pole	9 Curve 2 Pole	K Curve 2 Pole
0.1			QL-1(13)-D-1-0.1A	QL-1(13)-D-9-0.1A	QL-1(13)-D-KM-0.1A	QL-2(13)-D-1-0.1A	QL-2(13)-D-9-0.1A	QL-2(13)-D-KM-0.1A
0.2	X		QL-1(13)-D-1-0.2A	QL-1(13)-D-9-0.2A	QL-1(13)-D-KM-0.2A	QL-2(13)-D-1-0.2A	QL-2(13)-D-9-0.2A	QL-2(13)-D-KM-0.2A
0.3	X		QL-1(13)-D-1-0.3A	QL-1(13)-D-9-0.3A	QL-1(13)-D-KM-0.3A	QL-2(13)-D-1-0.3A	QL-2(13)-D-9-0.3A	QL-2(13)-D-KM-0.3A
0.5	X		QL-1(13)-D-1-0.5A	QL-1(13)-D-9-0.5A	QL-1(13)-D-KM-0.5A	QL-2(13)-D-1-0.5A	QL-2(13)-D-9-0.5A	QL-2(13)-D-KM-0.5A
0.75	X							
1	X		QL-1(13)-D-1-1A	QL-1(13)-D-9-1A	QL-1(13)-D-KM-1A	QL-2(13)-D-1-1A	QL-2(13)-D-9-1A	QL-2(13)-D-KM-1A
1.2	X							
1.5	X							
1.6	X							
2	X		QL-1(13)-D-1-2A	QL-1(13)-D-9-2A	QL-1(13)-D-KM-2A	QL-2(13)-D-1-2A	QL-2(13)-D-9-2A	QL-2(13)-D-KM-2A
2.5	X							
3	X		QL-1(13)-D-1-3A	QL-1(13)-D-9-3A	QL-1(13)-D-KM-3A	QL-2(13)-D-1-3A	QL-2(13)-D-9-3A	QL-2(13)-D-KM-3A
3.5	X							
4	X		QL-1(13)-D-1-4A	QL-1(13)-D-9-4A	QL-1(13)-D-KM-4A	QL-2(13)-D-1-4A	QL-2(13)-D-9-4A	QL-2(13)-D-KM-4A
5	X		QL-1(13)-D-1-5A	QL-1(13)-D-9-5A	QL-1(13)-D-KM-5A	QL-2(13)-D-1-5A	QL-2(13)-D-9-5A	QL-2(13)-D-KM-5A
6	X		QL-1(13)-D-1-6A	QL-1(13)-D-9-6A	QL-1(13)-D-KM-6A	QL-2(13)-D-1-6A	QL-2(13)-D-9-6A	QL-2(13)-D-KM-6A
7	X		QL-1(13)-D-1-7A	QL-1(13)-D-9-7A	QL-1(13)-D-KM-7A	QL-2(13)-D-1-7A	QL-2(13)-D-9-7A	QL-2(13)-D-KM-7A
8	X		QL-1(13)-D-1-8A	QL-1(13)-D-9-8A	QL-1(13)-D-KM-8A	QL-2(13)-D-1-8A	QL-2(13)-D-9-8A	QL-2(13)-D-KM-8A
9	X		QL-1(13)-D-1-9A	QL-1(13)-D-9-9A	QL-1(13)-D-KM-9A	QL-2(13)-D-1-9A	QL-2(13)-D-9-9A	QL-2(13)-D-KM-9A
10	X		QL-1(13)-D-1-10A	QL-1(13)-D-9-10A	QL-1(13)-D-KM-10A	QL-2(13)-D-1-10A	QL-2(13)-D-9-10A	QL-2(13)-D-KM-10A
12	X		QL-1(13)-D-1-12A	QL-1(13)-D-9-12A	QL-1(13)-D-KM-12A	QL-2(13)-D-1-12A	QL-2(13)-D-9-12A	QL-2(13)-D-KM-12A
13	X							
14	X							
15	X		QL-1(13)-D-1-15A	QL-1(13)-D-9-15A	QL-1(13)-D-KM-15A	QL-2(13)-D-1-15A	QL-2(13)-D-9-15A	QL-2(13)-D-KM-15A
16	X		QL-1(13)-D-1-16A	QL-1(13)-D-9-16A	QL-1(13)-D-KM-16A	QL-2(13)-D-1-16A	QL-2(13)-D-9-16A	QL-2(13)-D-KM-16A
20	X		QL-1(13)-D-1-20A	QL-1(13)-D-9-20A	QL-1(13)-D-KM-20A	QL-2(13)-D-1-20A	QL-2(13)-D-9-20A	QL-2(13)-D-KM-20A
25	X					QL-2(13)-D-1-25A	QL-2(13)-D-9-25A	QL-2(13)-D-KM-25A
30								
32								
35								
40								
45								
50								
55								
60								
63								
70								
80								
90								
100								
110								
125								



CBI QL - TECHNICAL REFERENCE	
Amps	.1, .2, .3, .4, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25
Voltage	120/240 VAC Wye
Short Circuit	10kA 120 VAC, 5kA 240 VAC
Poles	1,2,3,
Curves	1, 9, KM
Position Indicator	No Indicator, Center Trip Positon
Auxillary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	
Current Limiting	No
IEC	Yes
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	13mm
Wire Size	14-6 AWG, 16 AWG, 18 AWG
Tightening Torque	20 lb in
Certifications	UL489, CSA22.2, VDE, CE, CCC
Calibration Temperature	30 deg C
Operating Temperature	-40 to +60 deg C

MCA FABRICATION CARLO GAVAZZI GMB SERIES BREAKER



CARLO GAVAZZI GMB SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	B Curve 2 Pole	B Curve 3 Pole	C Curve 1 Pole	C Curve 2 Pole	C Curve 3 Pole	D Curve 1 Pole	D Curve 2 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X		GMB631PB0.5	GMB632PB0.5	GMB633PB0.5	GMB631PC0.5	GMB632PC0.5	GMB633PC0.5	GMB631PD0.5	GMB632PD0.5	GMB633PD0.5
0.75	X										
1	X		GMB631PB1	GMB632PB1	GMB633PB1	GMB631PC1	GMB632PC1	GMB633PC1	GMB631PD1	GMB632PD1	GMB633PD1
1.2	X										
1.5	X										
1.6	X		GMB631PB1.6	GMB632PB1.6	GMB633PB1.6	GMB631PC1.6	GMB632PC1.6	GMB633PC1.6	GMB631PD1.6	GMB632PD1.6	GMB633PD1.6
2	X		GMB631PB2	GMB632PB2	GMB633PB2	GMB631PC2	GMB632PC2	GMB633PC2	GMB631PD2	GMB632PD2	GMB633PD2
2.5	X										
3	X		GMB631PB3	GMB632PB3	GMB633PB3	GMB631PC3	GMB632PC3	GMB633PC3	GMB631PD3	GMB632PD3	GMB633PD3
3.5	X										
4	X		GMB631PB4	GMB632PB4	GMB633PB4	GMB631PC4	GMB632PC4	GMB633PC4	GMB631PD4	GMB632PD4	GMB633PD4
5	X		GMB631PB5	GMB632PB5	GMB633PB5	GMB631PC5	GMB632PC5	GMB633PC5	GMB631PD5	GMB632PD5	GMB633PD5
6	X		GMB631PB6	GMB632PB6	GMB633PB6	GMB631PC6	GMB632PC6	GMB633PC6	GMB631PD6	GMB632PD6	GMB633PD6
7	X										
8	X		GMB631PB8	GMB632PB8	GMB633PB8	GMB631PC8	GMB632PC8	GMB633PC8	GMB631PD8	GMB632PD8	GMB633PD8
9	X										
10	X		GMB631PB10	GMB632PB10	GMB633PB10	GMB631PC10	GMB632PC10	GMB633PC10	GMB631PD10	GMB632PD10	GMB633PD10
12	X										
13	X		GMB631PB13	GMB632PB13	GMB633PB13	GMB631PC13	GMB632PC13	GMB633PC13	GMB631PD13	GMB632PD13	GMB633PD13
14	X										
15	X		GMB631PB15	GMB632PB15	GMB633PB15	GMB631PC15	GMB632PC15	GMB633PC15	GMB631PD15	GMB632PD15	GMB633PD15
16	X		GMB631PB16	GMB632PB16	GMB633PB16	GMB631PC16	GMB632PC16	GMB633PC16	GMB631PD16	GMB632PD16	GMB633PD16
20	X		GMB631PB20	GMB632PB20	GMB633PB20	GMB631PC20	GMB632PC20	GMB633PC20	GMB631PD20	GMB632PD20	GMB633PD20
25	X		GMB631PB25	GMB632PB25	GMB633PB25	GMB631PC25	GMB632PC25	GMB633PC25	GMB631PD25	GMB632PD25	GMB633PD25
30	X		GMB631PB30	GMB632PB30	GMB633PB30	GMB631PC30	GMB632PC30	GMB633PC30	GMB631PD30	GMB632PD30	GMB633PD30
32	X		GMB631PB32	GMB632PB32	GMB633PB32	GMB631PC32	GMB632PC32	GMB633PC32	GMB631PD32	GMB632PD32	GMB633PD32
35	X		GMB631PB35	GMB632PB35	GMB633PB35	GMB631PC35	GMB632PC35	GMB633PC35	GMB631PD35	GMB632PD35	GMB633PD35
40	X		GMB631PB40	GMB632PB40	GMB633PB40	GMB631PC40	GMB632PC40	GMB633PC40	GMB631PD40	GMB632PD40	GMB633PD40
45	X										
50	X		GMB631PB50	GMB632PB50	GMB633PB50	GMB631PC50	GMB632PC50	GMB633PC50	GMB631PD50	GMB632PD50	GMB633PD50
55	X										
60	X		GMB631PB60	GMB632PB60	GMB633PB60	GMB631PC60	GMB632PC60	GMB633PC60	GMB631PD60	GMB632PD60	GMB633PD60
63	X		GMB631PB63	GMB632PB63	GMB633PB63	GMB631PC63	GMB632PC63	GMB633PC63	GMB631PD63	GMB632PD63	GMB633PD63
70											
80											
90											
100											
110											
125											



CARLO GAVAZZI GMB - TECHNICAL REFERENCE

Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63
Voltage	120/240 VAC Wye, 60-125 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	Yes
Width Dimensions	17.8mm
Wire Size	14-6 AWG
Tightening Torque	31 lb in
Certifications	UL489, CSA22.2, CE
Calibration Temperature	40 deg C
Operating Temperature	-5 to +40 deg C

MCA FABRICATION CARLO GAVAZZI GMB "H" SERIES BREAKER



CARLO GAVAZZI GMB "H" SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	B Curve 2 Pole	B Curve 3 Pole	C Curve 1 Pole	C Curve 2 Pole	C Curve 3 Pole	D Curve 1 Pole	D Curve 2 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X		GMB63H1PB0.5	GMB63H2PB0.5	GMB63H3PB0.5	GMB63H1PC0.5	GMB63H2PC0.5	GMB63H3PC0.5	GMB63H1PD0.5	GMB63H2PD0.5	GMB63H3PD0.5
0.75	X										
1	X		GMB63H1PB1	GMB63H2PB1	GMB63H3PB1	GMB63H1PC1	GMB63H2PC1	GMB63H3PC1	GMB63H1PD1	GMB63H2PD1	GMB63H3PD1
1.2	X										
1.5	X										
1.6	X		GMB63H1PB1.6	GMB63H2PB1.6	GMB63H3PB1.6	GMB63H1PC1.6	GMB63H2PC1.6	GMB63H3PC1.6	GMB63H1PD1.6	GMB63H2PD1.6	GMB63H3PD1.6
2	X		GMB63H1PB2	GMB63H2PB2	GMB63H3PB2	GMB63H1PC2	GMB63H2PC2	GMB63H3PC2	GMB63H1PD2	GMB63H2PD2	GMB63H3PD2
2.5	X										
3	X		GMB63H1PB3	GMB63H2PB3	GMB63H3PB3	GMB63H1PC3	GMB63H2PC3	GMB63H3PC3	GMB63H1PD3	GMB63H2PD3	GMB63H3PD3
3.5	X										
4	X		GMB63H1PB4	GMB63H2PB4	GMB63H3PB4	GMB63H1PC4	GMB63H2PC4	GMB63H3PC4	GMB63H1PD4	GMB63H2PD4	GMB63H3PD4
5	X		GMB63H1PB5	GMB63H2PB5	GMB63H3PB5	GMB63H1PC5	GMB63H2PC5	GMB63H3PC5	GMB63H1PD5	GMB63H2PD5	GMB63H3PD5
6	X		GMB63H1PB6	GMB63H2PB6	GMB63H3PB6	GMB63H1PC6	GMB63H2PC6	GMB63H3PC6	GMB63H1PD6	GMB63H2PD6	GMB63H3PD6
7	X										
8	X		GMB63H1PB8	GMB63H2PB8	GMB63H3PB8	GMB63H1PC8	GMB63H2PC8	GMB63H3PC8	GMB63H1PD8	GMB63H2PD8	GMB63H3PD8
9	X										
10	X		GMB63H1PB10	GMB63H2PB10	GMB63H3PB10	GMB63H1PC10	GMB63H2PC10	GMB63H3PC10	GMB63H1PD10	GMB63H2PD10	GMB63H3PD10
12	X										
13	X		GMB63H1PB13	GMB63H2PB13	GMB63H3PB13	GMB63H1PC13	GMB63H2PC13	GMB63H3PC13	GMB63H1PD13	GMB63H2PD13	GMB63H3PD13
14	X										
15	X		GMB63H1PB15	GMB63H2PB15	GMB63H3PB15	GMB63H1PC15	GMB63H2PC15	GMB63H3PC15	GMB63H1PD15	GMB63H2PD15	GMB63H3PD15
16	X		GMB63H1PB16	GMB63H2PB16	GMB63H3PB16	GMB63H1PC16	GMB63H2PC16	GMB63H3PC16	GMB63H1PD16	GMB63H2PD16	GMB63H3PD16
20	X		GMB63H1PB20	GMB63H2PB20	GMB63H3PB20	GMB63H1PC20	GMB63H2PC20	GMB63H3PC20	GMB63H1PD20	GMB63H2PD20	GMB63H3PD20
25	X		GMB63H1PB25	GMB63H2PB25	GMB63H3PB25	GMB63H1PC25	GMB63H2PC25	GMB63H3PC25	GMB63H1PD25	GMB63H2PD25	GMB63H3PD25
30	X		GMB63H1PB30	GMB63H2PB30	GMB63H3PB30	GMB63H1PC30	GMB63H2PC30	GMB63H3PC30	GMB63H1PD30	GMB63H2PD30	GMB63H3PD30
32	X		GMB63H1PB32	GMB63H2PB32	GMB63H3PB32	GMB63H1PC32	GMB63H2PC32	GMB63H3PC32	GMB63H1PD32	GMB63H2PD32	GMB63H3PD32
35											
40											
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



CARLO GAVAZZI GMB "H" - TECHNICAL REFERENCE

Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20,
Voltage	277/480 VAC Wye, 60-125 VDC
Short Circuit	10kA
Poles	1,2,3,
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	Yes
Width Dimensions	17.8mm
Wire Size	14-6 AWG
Tightening Torque	31 lb in
Certifications	UL489, CSA22.2, CE
Calibration Temperature	40 deg C
Operating Temperature	-5 to +40 deg C

MCA FABRICATION EATON FAZ SERIES BREAKER



EATON FAZ SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X	X									
0.75	X	X									
1	X	X	FAZ-B1/1-NA	FAZ-C1/1-NA	FAZ-D1/1-NA	FAZ-B1/2-NA	FAZ-C1/2-NA	FAZ-D1/2-NA	FAZ-B1/3-NA	FAZ-C1/3-NA	FAZ-D1/3-NA
1.2	X	X									
1.5	X	X	FAZ-B1.5/1-NA	FAZ-C1.5/1-NA	FAZ-D1.5/1-NA	FAZ-B1.5/2-NA	FAZ-C1.5/2-NA	FAZ-D1.5/2-NA	FAZ-B1.5/3-NA	FAZ-C1.5/3-NA	FAZ-D1.5/3-NA
1.6	X	X									
2	X	X	FAZ-B2/1-NA	FAZ-C2/1-NA	FAZ-D2/1-NA	FAZ-B2/2-NA	FAZ-C2/2-NA	FAZ-D2/2-NA	FAZ-B2/3-NA	FAZ-C2/3-NA	FAZ-D2/3-NA
2.5	X	X									
3	X	X	FAZ-B3/1-NA	FAZ-C3/1-NA	FAZ-D3/1-NA	FAZ-B3/2-NA	FAZ-C3/2-NA	FAZ-D3/2-NA	FAZ-B3/3-NA	FAZ-C3/3-NA	FAZ-D3/3-NA
3.5	X	X									
4	X	X	FAZ-B4/1-NA	FAZ-C4/1-NA	FAZ-D4/1-NA	FAZ-B4/2-NA	FAZ-C4/2-NA	FAZ-D4/2-NA	FAZ-B4/3-NA	FAZ-C4/3-NA	FAZ-D4/3-NA
5	X	X	FAZ-B5/1-NA	FAZ-C5/1-NA	FAZ-D5/1-NA	FAZ-B5/2-NA	FAZ-C5/2-NA	FAZ-D5/2-NA	FAZ-B5/3-NA	FAZ-C5/3-NA	FAZ-D5/3-NA
6	X	X	FAZ-B6/1-NA	FAZ-C6/1-NA	FAZ-D6/1-NA	FAZ-B6/2-NA	FAZ-C6/2-NA	FAZ-D6/2-NA	FAZ-B6/3-NA	FAZ-C6/3-NA	FAZ-D6/3-NA
7	X	X	FAZ-B7/1-NA	FAZ-C7/1-NA	FAZ-D7/1-NA	FAZ-B7/2-NA	FAZ-C7/2-NA	FAZ-D7/2-NA	FAZ-B7/3-NA	FAZ-C7/3-NA	FAZ-D7/3-NA
8	X	X	FAZ-B8/1-NA	FAZ-C8/1-NA	FAZ-D8/1-NA	FAZ-B8/2-NA	FAZ-C8/2-NA	FAZ-D8/2-NA	FAZ-B8/3-NA	FAZ-C8/3-NA	FAZ-D8/3-NA
9	X	X									
10	X	X	FAZ-B10/1-NA	FAZ-C10/1-NA	FAZ-D10/1-NA	FAZ-B10/2-NA	FAZ-C10/2-NA	FAZ-D10/2-NA	FAZ-B10/3-NA	FAZ-C10/3-NA	FAZ-D10/3-NA
12	X	X									
13	X	X	FAZ-B13/1-NA	FAZ-C13/1-NA	FAZ-D13/1-NA	FAZ-B13/2-NA	FAZ-C13/2-NA	FAZ-D13/2-NA	FAZ-B13/3-NA	FAZ-C13/3-NA	FAZ-D13/3-NA
14	X	X									
15	X	X	FAZ-B15/1-NA	FAZ-C15/1-NA	FAZ-D15/1-NA	FAZ-B15/2-NA	FAZ-C15/2-NA	FAZ-D15/2-NA	FAZ-B15/3-NA	FAZ-C15/3-NA	FAZ-D15/3-NA
16	X	X	FAZ-B16/1-NA	FAZ-C16/1-NA	FAZ-D16/1-NA	FAZ-B16/2-NA	FAZ-C16/2-NA	FAZ-D16/2-NA	FAZ-B16/3-NA	FAZ-C16/3-NA	FAZ-D16/3-NA
20	X	X	FAZ-B20/1-NA	FAZ-C20/1-NA	FAZ-D20/1-NA	FAZ-B20/2-NA	FAZ-C20/2-NA	FAZ-D20/2-NA	FAZ-B20/3-NA	FAZ-C20/3-NA	FAZ-D20/3-NA
25	X	X	FAZ-B25/1-NA	FAZ-C25/1-NA	FAZ-D25/1-NA	FAZ-B25/2-NA	FAZ-C25/2-NA	FAZ-D25/2-NA	FAZ-B25/3-NA	FAZ-C25/3-NA	FAZ-D25/3-NA
30	X	X	FAZ-B30/1-NA	FAZ-C30/1-NA	FAZ-D30/1-NA	FAZ-B30/2-NA	FAZ-C30/2-NA	FAZ-D30/2-NA	FAZ-B30/3-NA	FAZ-C30/3-NA	FAZ-D30/3-NA
32	X	X	FAZ-B32/1-NA	FAZ-C32/1-NA	FAZ-D32/1-NA	FAZ-B32/2-NA	FAZ-C32/2-NA	FAZ-D32/2-NA	FAZ-B32/3-NA	FAZ-C32/3-NA	FAZ-D32/3-NA
35	X		FAZ-B35/1-NA	FAZ-C35/1-NA	FAZ-D35/1-NA	FAZ-B35/2-NA	FAZ-C35/2-NA	FAZ-D35/2-NA	FAZ-B35/3-NA	FAZ-C35/3-NA	FAZ-D35/3-NA
40	X		FAZ-B40/1-NA	FAZ-C40/1-NA	FAZ-D40/1-NA	FAZ-B40/2-NA	FAZ-C40/2-NA	FAZ-D40/2-NA	FAZ-B40/3-NA	FAZ-C40/3-NA	FAZ-D40/3-NA
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



EATON FAZ - TECHNICAL REFERENCE

Amps	.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40
Voltage	120/240/277/480 VAC Wye, 60/125 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.7mm
Wire Size	18-21 AWG 10-8 AWG 6 AWG
Tightening Torque	21 lb in 25 lb in 36 lb in
Certifications	UL489, CSA22.2, VDE, ABS, IEC60947-2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +70 deg C

MCA FABRICATION EATON QC SERIES BREAKER



EATON FAZ SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X	X									
0.75	X	X									
1	X	X	FAZ-B1/1-NA	FAZ-C1/1-NA	FAZ-D1/1-NA	FAZ-B1/2-NA	FAZ-C1/2-NA	FAZ-D1/2-NA	FAZ-B1/3-NA	FAZ-C1/3-NA	FAZ-D1/3-NA
1.2	X	X									
1.5	X	X	FAZ-B1.5/1-NA	FAZ-C1.5/1-NA	FAZ-D1.5/1-NA	FAZ-B1.5/2-NA	FAZ-C1.5/2-NA	FAZ-D1.5/2-NA	FAZ-B1.5/3-NA	FAZ-C1.5/3-NA	FAZ-D1.5/3-NA
1.6	X	X									
2	X	X	FAZ-B2/1-NA	FAZ-C2/1-NA	FAZ-D2/1-NA	FAZ-B2/2-NA	FAZ-C2/2-NA	FAZ-D2/2-NA	FAZ-B2/3-NA	FAZ-C2/3-NA	FAZ-D2/3-NA
2.5	X	X									
3	X	X	FAZ-B3/1-NA	FAZ-C3/1-NA	FAZ-D3/1-NA	FAZ-B3/2-NA	FAZ-C3/2-NA	FAZ-D3/2-NA	FAZ-B3/3-NA	FAZ-C3/3-NA	FAZ-D3/3-NA
3.5	X	X									
4	X	X	FAZ-B4/1-NA	FAZ-C4/1-NA	FAZ-D4/1-NA	FAZ-B4/2-NA	FAZ-C4/2-NA	FAZ-D4/2-NA	FAZ-B4/3-NA	FAZ-C4/3-NA	FAZ-D4/3-NA
5	X	X	FAZ-B5/1-NA	FAZ-C5/1-NA	FAZ-D5/1-NA	FAZ-B5/2-NA	FAZ-C5/2-NA	FAZ-D5/2-NA	FAZ-B5/3-NA	FAZ-C5/3-NA	FAZ-D5/3-NA
6	X	X	FAZ-B6/1-NA	FAZ-C6/1-NA	FAZ-D6/1-NA	FAZ-B6/2-NA	FAZ-C6/2-NA	FAZ-D6/2-NA	FAZ-B6/3-NA	FAZ-C6/3-NA	FAZ-D6/3-NA
7	X	X	FAZ-B7/1-NA	FAZ-C7/1-NA	FAZ-D7/1-NA	FAZ-B7/2-NA	FAZ-C7/2-NA	FAZ-D7/2-NA	FAZ-B7/3-NA	FAZ-C7/3-NA	FAZ-D7/3-NA
8	X	X	FAZ-B8/1-NA	FAZ-C8/1-NA	FAZ-D8/1-NA	FAZ-B8/2-NA	FAZ-C8/2-NA	FAZ-D8/2-NA	FAZ-B8/3-NA	FAZ-C8/3-NA	FAZ-D8/3-NA
9	X	X									
10	X	X	FAZ-B10/1-NA	FAZ-C10/1-NA	FAZ-D10/1-NA	FAZ-B10/2-NA	FAZ-C10/2-NA	FAZ-D10/2-NA	FAZ-B10/3-NA	FAZ-C10/3-NA	FAZ-D10/3-NA
12	X	X									
13	X	X	FAZ-B13/1-NA	FAZ-C13/1-NA	FAZ-D13/1-NA	FAZ-B13/2-NA	FAZ-C13/2-NA	FAZ-D13/2-NA	FAZ-B13/3-NA	FAZ-C13/3-NA	FAZ-D13/3-NA
14	X	X									
15	X	X	FAZ-B15/1-NA	FAZ-C15/1-NA	FAZ-D15/1-NA	FAZ-B15/2-NA	FAZ-C15/2-NA	FAZ-D15/2-NA	FAZ-B15/3-NA	FAZ-C15/3-NA	FAZ-D15/3-NA
16	X	X	FAZ-B16/1-NA	FAZ-C16/1-NA	FAZ-D16/1-NA	FAZ-B16/2-NA	FAZ-C16/2-NA	FAZ-D16/2-NA	FAZ-B16/3-NA	FAZ-C16/3-NA	FAZ-D16/3-NA
20	X	X	FAZ-B20/1-NA	FAZ-C20/1-NA	FAZ-D20/1-NA	FAZ-B20/2-NA	FAZ-C20/2-NA	FAZ-D20/2-NA	FAZ-B20/3-NA	FAZ-C20/3-NA	FAZ-D20/3-NA
25	X	X	FAZ-B25/1-NA	FAZ-C25/1-NA	FAZ-D25/1-NA	FAZ-B25/2-NA	FAZ-C25/2-NA	FAZ-D25/2-NA	FAZ-B25/3-NA	FAZ-C25/3-NA	FAZ-D25/3-NA
30	X	X	FAZ-B30/1-NA	FAZ-C30/1-NA	FAZ-D30/1-NA	FAZ-B30/2-NA	FAZ-C30/2-NA	FAZ-D30/2-NA	FAZ-B30/3-NA	FAZ-C30/3-NA	FAZ-D30/3-NA
32	X	X	FAZ-B32/1-NA	FAZ-C32/1-NA	FAZ-D32/1-NA	FAZ-B32/2-NA	FAZ-C32/2-NA	FAZ-D32/2-NA	FAZ-B32/3-NA	FAZ-C32/3-NA	FAZ-D32/3-NA
35	X		FAZ-B35/1-NA	FAZ-C35/1-NA	FAZ-D35/1-NA	FAZ-B35/2-NA	FAZ-C35/2-NA	FAZ-D35/2-NA	FAZ-B35/3-NA	FAZ-C35/3-NA	FAZ-D35/3-NA
40	X		FAZ-B40/1-NA	FAZ-C40/1-NA	FAZ-D40/1-NA	FAZ-B40/2-NA	FAZ-C40/2-NA	FAZ-D40/2-NA	FAZ-B40/3-NA	FAZ-C40/3-NA	FAZ-D40/3-NA
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



EATON QC/QCD/QCR/QCGF - TECHNICAL REFERENCE	
Amps	QC 10, 15, 20, 30, 40, 50, 100 / QCR 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 QCD 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100
Voltage	120/240 VAC
Short Circuit	10kA
Poles	1,2,3
Curves	QC
Position Indicator	No Indicator, Center Trip Positon
Auxillary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	20K Operations
Current Limiting	No
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	
Wire Size	
Tightening Torque	
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +85 deg C
Operating Temperature	-25 to +70 deg C

MCA FABRICATION ETA 4230 SERIES BREAKER



ETA 4230 - PART NUMBER REFERENCE

Rated Current	Voltage 240	Voltage 277	B Curve			C Curve			D Curve		
			1 Pole	1 Pole	1 Pole	2 Pole	2 Pole	2 Pole	3 Pole	3 Pole	3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1	X	X	4230-T110-K0BU1A	4230-T110-K0CU1A	4230-T110-K0DU1A	4230-T120-K0BU1A	4230-T120-K0CU1A	4230-T120-K0DU1A	4230-T130-K0BU1A	4230-T130-K0CU1A	4230-T130-K0DU1A
1.2	X	X	4230-T110-K0BU1.2A	4230-T110-K0CU1.2A	4230-T110-K0DU1.2A	4230-T120-K0BU1.2A	4230-T120-K0CU1.2A	4230-T120-K0DU1.2A	4230-T130-K0BU1.2A	4230-T130-K0CU1.2A	4230-T130-K0DU1.2A
1.5	X	X	4230-T110-K0BU1.5A	4230-T110-K0CU1.5A	4230-T110-K0DU1.5A	4230-T120-K0BU1.5A	4230-T120-K0CU1.5A	4230-T120-K0DU1.5A	4230-T130-K0BU1.5A	4230-T130-K0CU1.5A	4230-T130-K0DU1.5A
1.6	X	X	4230-T110-K0BU1.6A	4230-T110-K0CU1.6A	4230-T110-K0DU1.6A	4230-T120-K0BU1.6A	4230-T120-K0CU1.6A	4230-T120-K0DU1.6A	4230-T130-K0BU1.6A	4230-T130-K0CU1.6A	4230-T130-K0DU1.6A
2	X	X	4230-T110-K0BU2A	4230-T110-K0CU2A	4230-T110-K0DU2A	4230-T120-K0BU2A	4230-T120-K0CU2A	4230-T120-K0DU2A	4230-T130-K0BU2A	4230-T130-K0CU2A	4230-T130-K0DU2A
2.5	X	X									
3	X	X	4230-T110-K0BU3A	4230-T110-K0CU3A	4230-T110-K0DU3A	4230-T120-K0BU3A	4230-T120-K0CU3A	4230-T120-K0DU3A	4230-T130-K0BU3A	4230-T130-K0CU3A	4230-T130-K0DU3A
3.5	X	X									
4	X	X	4230-T110-K0BU4A	4230-T110-K0CU4A	4230-T110-K0DU4A	4230-T120-K0BU4A	4230-T120-K0CU4A	4230-T120-K0DU4A	4230-T130-K0BU4A	4230-T130-K0CU4A	4230-T130-K0DU4A
5	X	X	4230-T110-K0BU5A	4230-T110-K0CU5A	4230-T110-K0DU5A	4230-T120-K0BU5A	4230-T120-K0CU5A	4230-T120-K0DU5A	4230-T130-K0BU5A	4230-T130-K0CU5A	4230-T130-K0DU5A
6	X	X	4230-T110-K0BU6A	4230-T110-K0CU6A	4230-T110-K0DU6A	4230-T120-K0BU6A	4230-T120-K0CU6A	4230-T120-K0DU6A	4230-T130-K0BU6A	4230-T130-K0CU6A	4230-T130-K0DU6A
7	X	X	4230-T110-K0BU7A	4230-T110-K0CU7A	4230-T110-K0DU7A	4230-T120-K0BU7A	4230-T120-K0CU7A	4230-T120-K0DU7A	4230-T130-K0BU7A	4230-T130-K0CU7A	4230-T130-K0DU7A
8	X	X	4230-T110-K0BU8A	4230-T110-K0CU8A	4230-T110-K0DU8A	4230-T120-K0BU8A	4230-T120-K0CU8A	4230-T120-K0DU8A	4230-T130-K0BU8A	4230-T130-K0CU8A	4230-T130-K0DU8A
9	X	X									
10	X	X	4230-T110-K0BU10A	4230-T110-K0CU10A	4230-T110-K0DU10A	4230-T120-K0BU10A	4230-T120-K0CU10A	4230-T120-K0DU10A	4230-T130-K0BU10A	4230-T130-K0CU10A	4230-T130-K0DU10A
12	X	X	4230-T110-K0BU12A	4230-T110-K0CU12A	4230-T110-K0DU12A	4230-T120-K0BU12A	4230-T120-K0CU12A	4230-T120-K0DU12A	4230-T130-K0BU12A	4230-T130-K0CU12A	4230-T130-K0DU12A
13	X	X	4230-T110-K0BU13A	4230-T110-K0CU13A	4230-T110-K0DU13A	4230-T120-K0BU13A	4230-T120-K0CU13A	4230-T120-K0DU13A	4230-T130-K0BU13A	4230-T130-K0CU13A	4230-T130-K0DU13A
14	X	X									
15	X	X	4230-T110-K0BU15A	4230-T110-K0CU15A	4230-T110-K0DU15A	4230-T120-K0BU15A	4230-T120-K0CU15A	4230-T120-K0DU15A	4230-T130-K0BU15A	4230-T130-K0CU15A	4230-T130-K0DU15A
16	X	X	4230-T110-K0BU16A	4230-T110-K0CU16A	4230-T110-K0DU16A	4230-T120-K0BU16A	4230-T120-K0CU16A	4230-T120-K0DU16A	4230-T130-K0BU16A	4230-T130-K0CU16A	4230-T130-K0DU16A
20	X	X	4230-T110-K0BU20A	4230-T110-K0CU20A	4230-T110-K0DU20A	4230-T120-K0BU20A	4230-T120-K0CU20A	4230-T120-K0DU20A	4230-T130-K0BU20A	4230-T130-K0CU20A	4230-T130-K0DU20A
25	X	X	4230-T110-K0BU25A	4230-T110-K0CU25A	4230-T110-K0DU25A	4230-T120-K0BU25A	4230-T120-K0CU25A	4230-T120-K0DU25A	4230-T130-K0BU25A	4230-T130-K0CU25A	4230-T130-K0DU25A
30	X	X	4230-T110-K0BU30A	4230-T110-K0CU30A	4230-T110-K0DU30A	4230-T120-K0BU30A	4230-T120-K0CU30A	4230-T120-K0DU30A	4230-T130-K0BU30A	4230-T130-K0CU30A	4230-T130-K0DU30A
32	X	X	4230-T110-K0BU32A	4230-T110-K0CU32A	4230-T110-K0DU32A	4230-T120-K0BU32A	4230-T120-K0CU32A	4230-T120-K0DU32A	4230-T130-K0BU32A	4230-T130-K0CU32A	4230-T130-K0DU32A
35	X	X	4230-T110-K0BU35A	4230-T110-K0CU35A	4230-T110-K0DU35A	4230-T120-K0BU35A	4230-T120-K0CU35A	4230-T120-K0DU35A	4230-T130-K0BU35A	4230-T130-K0CU35A	4230-T130-K0DU35A
40	X	X	4230-T110-K0BU40A	4230-T110-K0CU40A	4230-T110-K0DU40A	4230-T120-K0BU40A	4230-T120-K0CU40A	4230-T120-K0DU40A	4230-T130-K0BU40A	4230-T130-K0CU40A	4230-T130-K0DU40A
45	X	X									
50	X	X	4230-T110-K0BU50A	4230-T110-K0CU50A	4230-T110-K0DU50A	4230-T120-K0BU50A	4230-T120-K0CU50A	4230-T120-K0DU50A	4230-T130-K0BU50A	4230-T130-K0CU50A	4230-T130-K0DU50A
55	X	X									
60	X	X	4230-T110-K0BU60A	4230-T110-K0CU60A	4230-T110-K0DU60A	4230-T120-K0BU60A	4230-T120-K0CU60A	4230-T120-K0DU60A	4230-T130-K0BU60A	4230-T130-K0CU60A	4230-T130-K0DU60A
63	X	X	4230-T110-K0BU63A	4230-T110-K0CU63A	4230-T110-K0DU63A	4230-T120-K0BU63A	4230-T120-K0CU63A	4230-T120-K0DU63A	4230-T130-K0BU63A	4230-T130-K0CU63A	4230-T130-K0DU63A
70											
80											
90											
100											
110											
125											



ETA 4230 - TECHNICAL REFERENCE

Amps	1, 1.2, 1.5, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480VAC & 60/125VDC 35, 40, 50, 60, 63 @ 120/240VAC & 60/125 VDC
Voltage	120/240/277/480 VAC Wye, 60/125 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.6mm
Wire Size	18-2 AWG
Tightening Torque	2.0 Nm
Certifications	cULus 489, CE, IEC60947-2
Calibration Temperature	30 deg C
Operating Temperature	-30 to +70 deg C
Operating Temperature	-25 to +70 deg C

MCA FABRICATION GE / AEG EP 100 ULH SERIES BREAKER



GE / AEG EP 100 ULH SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X					EP102ULHB0.5	EP102ULHC0.5	EP102ULHD0.5	EP103ULHB0.5	EP103ULHC0.5	EP103ULHD0.5
0.75	X										
1	X					EP102ULHB01	EP102ULHC01	EP102ULHD01	EP103ULHB01	EP103ULHC01	EP103ULHD01
1.2	X										
1.5	X										
1.6	X										
2	X					EP102ULHB02	EP102ULHC02	EP102ULHD02	EP103ULHB02	EP103ULHC02	EP103ULHD02
2.5	X										
3	X										
3.5	X										
4	X					EP102ULHB04	EP102ULHC04	EP102ULHD04	EP103ULHB04	EP103ULHC04	EP103ULHD04
5	X										
6	X		EP101ULHB06	EP101ULHC06	EP101ULHD06	EP102ULHB06	EP102ULHC06	EP102ULHD06	EP103ULHB06	EP103ULHC06	EP103ULHD06
7	X										
8	X										
9	X										
10	X		EP101ULHB10	EP101ULHC10	EP101ULHD10	EP102ULHB10	EP102ULHC10	EP102ULHD10	EP103ULHB10	EP103ULHC10	EP103ULHD10
12	X										
13	X										
14	X										
15	X										
16	X		EP101ULHB16	EP101ULHC16	EP101ULHD16	EP102ULHB16	EP102ULHC16	EP102ULHD16	EP103ULHB16	EP103ULHC16	EP103ULHD16
20	X		EP101ULHB20	EP101ULHC20	EP101ULHD20	EP102ULHB20	EP102ULHC20	EP102ULHD20	EP103ULHB20	EP103ULHC20	EP103ULHD20
25	X		EP101ULHB25	EP101ULHC25	EP101ULHD25	EP102ULHB25	EP102ULHC25	EP102ULHD25	EP103ULHB25	EP103ULHC25	EP103ULHD25
30	X										
32	X		EP101ULHB32	EP101ULHC32	EP101ULHD32	EP102ULHB32	EP102ULHC32	EP102ULHD32	EP103ULHB32	EP103ULHC32	EP103ULHD32
35											
40											
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



GE / AEG EP 100 ULH - TECHNICAL REFERENCE

Amps	.5, 1, 2, 4, 6, 10, 16, 20, 25, 32A @ 120/240 VAC & 60/125 VDC
Voltage	120/240 VAC Wye, 60/125 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	20K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	24.5 lb in
Certifications	UL489, IEC60497-2, CE
Calibration Temperature	50 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION GE TQC/THQC/THHQC SERIES BREAKER



GE TQC/THQC/THHQC SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	TQC 1 Pole	TQC 2 Pole	TQC 3 Pole	THQC 1 Pole	THQC 2 Pole	THQC 3 Pole	THHQC 1 Pole	THHQC 2 Pole	THHQC 3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1											
1.2											
1.5											
1.6											
2											
2.5											
3											
3.5											
4											
5											
6											
7											
8											
9											
10	X		TQC1210	TQC2410	TQC3410						
12	X										
13	X										
14	X										
15	X		TQC1215	TQC2415	TQC3415	THQC1215	THQC2415	THQC3415	THHQC1215	THHQC2415	THHQC3415
16	X										
20	X		TQC1220	TQC2420	TQC3420	THQC1220	THQC2420	THQC3420	THHQC1220	THHQC2420	THHQC3420
25	X		TQC1225	TQC2425	TQC3425	THQC1225	THQC2425	THQC3425	THHQC1225	THHQC2425	THHQC3425
30	X		TQC1230	TQC2430	TQC3430	THQC1230	THQC2430	THQC3430	THHQC1230	THHQC2430	THHQC3430
32	X										
35	X		TQC1235	TQC2435	TQC3435	THQC1235	THQC2435	THQC3435	THHQC1235	THHQC2435	THHQC3435
40	X		TQC1240	TQC2440	TQC3440	THQC1240	THQC2440	THQC3440	THHQC1240	THHQC2440	THHQC3440
45	X		TQC1245	TQC2445	TQC3445	THQC1245	THQC2445	THQC3445	THHQC1245	THHQC2445	THHQC3445
50	X		TQC1250	TQC2450	TQC3450	THQC1250	THQC2450	THQC3450	THHQC1250	THHQC2450	THHQC3450
55	X										
60	X		TQC1260	TQC2460	TQC3460	THQC1260	THQC2460	THQC3460	THHQC1260	THHQC2460	THHQC3460
63	X										
70	X		TQC1270	TQC2470	TQC3470	THQC1270	THQC2470	THQC3470	THHQC1270	THHQC2470	THHQC3470
80	X										
90	X		TQC1290	TQC2490	TQC3490	THQC1290	THQC2490	THQC3490		THHQC2490	THHQC3490
100	X		TQC12100	TQC24100	TQC34100	THQC12100	THQC24100	THQC34100		THHQC24100	THHQC34100
110											
125											



GE TQC/THQC/THHQC - TECHNICAL REFERENCE

Amps	10, 15, 20, 25, 30, 35, 40, 45, 50, 60
Voltage	120/240 VAC
Short Circuit	5kA 1P, 10kA 2P/3P
Poles	1,2,3
Curves	THQ
Position Indicator	No Indicator, Center Trip Positon
Auxillary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	20K Operations
Current Limiting	No
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	
Wire Size	8-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489
Calibration Temperature	30 deg C
Operating Temperature	0 to +60 deg C

MCA FABRICATION WEG UMBW SERIES BREAKER



WEG UMBW SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1	X	X	UMBW-4B1-1	UMBW-4C1-1	UMBW-4D1-1	UMBW-4B2-1	UMBW-4C2-1	UMBW-4D2-1	UMBW-4B3-1	UMBW-4C3-1	UMBW-4D3-1
1.2	X	X	UMBW-4B1-1.2	UMBW-4C1-1.2	UMBW-4D1-1.2	UMBW-4B2-1.2	UMBW-4C2-1.2	UMBW-4D2-1.2	UMBW-4B3-1.2	UMBW-4C3-1.2	UMBW-4D3-1.2
1.5	X	X	UMBW-4B1-1.5	UMBW-4C1-1.5	UMBW-4D1-1.5	UMBW-4B2-1.5	UMBW-4C2-1.5	UMBW-4D2-1.5	UMBW-4B3-1.5	UMBW-4C3-1.5	UMBW-4D3-1.5
1.6	X	X	UMBW-4B1-1.6	UMBW-4C1-1.6	UMBW-4D1-1.6	UMBW-4B2-1.6	UMBW-4C2-1.6	UMBW-4D2-1.6	UMBW-4B3-1.6	UMBW-4C3-1.6	UMBW-4D3-1.6
2	X	X	UMBW-4B1-2	UMBW-4C1-2	UMBW-4D1-2	UMBW-4B2-2	UMBW-4C2-2	UMBW-4D2-2	UMBW-4B3-2	UMBW-4C3-2	UMBW-4D3-2
2.5	X	X									
3	X	X	UMBW-4B1-3	UMBW-4C1-3	UMBW-4D1-3	UMBW-4B2-3	UMBW-4C2-3	UMBW-4D2-3	UMBW-4B3-3	UMBW-4C3-3	UMBW-4D3-3
3.5	X	X									
4	X	X	UMBW-4B1-4	UMBW-4C1-4	UMBW-4D1-4	UMBW-4B2-4	UMBW-4C2-4	UMBW-4D2-4	UMBW-4B3-4	UMBW-4C3-4	UMBW-4D3-4
5	X	X	UMBW-4B1-5	UMBW-4C1-5	UMBW-4D1-5	UMBW-4B2-5	UMBW-4C2-5	UMBW-4D2-5	UMBW-4B3-5	UMBW-4C3-5	UMBW-4D3-5
6	X	X	UMBW-4B1-6	UMBW-4C1-6	UMBW-4D1-6	UMBW-4B2-6	UMBW-4C2-6	UMBW-4D2-6	UMBW-4B3-6	UMBW-4C3-6	UMBW-4D3-6
7	X	X	UMBW-4B1-7	UMBW-4C1-7	UMBW-4D1-7	UMBW-4B2-7	UMBW-4C2-7	UMBW-4D2-7	UMBW-4B3-7	UMBW-4C3-7	UMBW-4D3-7
8	X	X	UMBW-4B1-8	UMBW-4C1-8	UMBW-4D1-8	UMBW-4B2-8	UMBW-4C2-8	UMBW-4D2-8	UMBW-4B3-8	UMBW-4C3-8	UMBW-4D3-8
9	X	X									
10	X	X	UMBW-4B1-10	UMBW-4C1-10	UMBW-4D1-10	UMBW-4B2-10	UMBW-4C2-10	UMBW-4D2-10	UMBW-4B3-10	UMBW-4C3-10	UMBW-4D3-10
12	X	X	UMBW-4B1-12	UMBW-4C1-12	UMBW-4D1-12	UMBW-4B2-12	UMBW-4C2-12	UMBW-4D2-12	UMBW-4B3-12	UMBW-4C3-12	UMBW-4D3-12
13	X	X	UMBW-4B1-13	UMBW-4C1-13	UMBW-4D1-13	UMBW-4B2-13	UMBW-4C2-13	UMBW-4D2-13	UMBW-4B3-13	UMBW-4C3-13	UMBW-4D3-13
14	X	X									
15	X	X	UMBW-4B1-15	UMBW-4C1-15	UMBW-4D1-15	UMBW-4B2-15	UMBW-4C2-15	UMBW-4D2-15	UMBW-4B3-15	UMBW-4C3-15	UMBW-4D3-15
16	X	X	UMBW-4B1-16	UMBW-4C1-16	UMBW-4D1-16	UMBW-4B2-16	UMBW-4C2-16	UMBW-4D2-16	UMBW-4B3-16	UMBW-4C3-16	UMBW-4D3-16
20	X	X	UMBW-4B1-20	UMBW-4C1-20	UMBW-4D1-20	UMBW-4B2-20	UMBW-4C2-20	UMBW-4D2-20	UMBW-4B3-20	UMBW-4C3-20	UMBW-4D3-20
25	X	X	UMBW-4B1-25	UMBW-4C1-25	UMBW-4D1-25	UMBW-4B2-25	UMBW-4C2-25	UMBW-4D2-25	UMBW-4B3-25	UMBW-4C3-25	UMBW-4D3-25
30	X	X	UMBW-4B1-30	UMBW-4C1-30	UMBW-4D1-30	UMBW-4B2-30	UMBW-4C2-30	UMBW-4D2-30	UMBW-4B3-30	UMBW-4C3-30	UMBW-4D3-30
32	X	X	UMBW-4B1-32	UMBW-4C1-32	UMBW-4D1-32	UMBW-4B2-32	UMBW-4C2-32	UMBW-4D2-32	UMBW-4B3-32	UMBW-4C3-32	UMBW-4D3-32
35	X	X	UMBW-4B1-35	UMBW-4C1-35	UMBW-4D1-35	UMBW-4B2-35	UMBW-4C2-35	UMBW-4D2-35	UMBW-4B3-35	UMBW-4C3-35	UMBW-4D3-35
40	X	X	UMBW-4B1-40	UMBW-4C1-40	UMBW-4D1-40	UMBW-4B2-40	UMBW-4C2-40	UMBW-4D2-40	UMBW-4B3-40	UMBW-4C3-40	UMBW-4D3-40
45	X	X									
50	X	X	UMBW-4B1-50	UMBW-4C1-50	UMBW-4D1-50	UMBW-4B2-50	UMBW-4C2-50	UMBW-4D2-50	UMBW-4B3-50	UMBW-4C3-50	UMBW-4D3-50
55	X	X									
60	X	X	UMBW-4B1-60	UMBW-4C1-60	UMBW-4D1-60	UMBW-4B2-60	UMBW-4C2-60	UMBW-4D2-60	UMBW-4B3-60	UMBW-4C3-60	UMBW-4D3-60
63	X	X	UMBW-4B1-63	UMBW-4C1-63	UMBW-4D1-63	UMBW-4B2-63	UMBW-4C2-63	UMBW-4D2-63	UMBW-4B3-63	UMBW-4C3-63	UMBW-4D3-63
70											
80											
90											
100											
110											
125											



WEG UMBW - TECHNICAL REFERENCE

Amps	.3, 5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480 VAC 40, 50, 60, 63 @ 120/240 VAC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	No Indicator, Center Trip Position
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION NOARK B1H SERIES BREAKER



NOARK B1H SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X		B1H1B0.5	B1H1C0.5	B1H1D0.5	B1H2B0.5	B1H2C0.5	B1H2D0.5	B1H3B0.5	B1H3C0.5	B1H3D0.5
0.75	X										
1	X		B1H1B1	B1H1C1	B1H1D1	B1H2B1	B1H2C1	B1H2D1	B1H3B1	B1H3C1	B1H3D1
1.2	X										
1.5	X										
1.6	X		B1H1B1.6	B1H1C1.6	B1H1D1.6	B1H2B1.6	B1H2C1.6	B1H2D1.6	B1H3B1.6	B1H3C1.6	B1H3D1.6
2	X		B1H1B2	B1H1C2	B1H1D2	B1H2B2	B1H2C2	B1H2D2	B1H3B2	B1H3C2	B1H3D2
2.5	X										
3	X		B1H1B3	B1H1C3	B1H1D3	B1H2B3	B1H2C3	B1H2D3	B1H3B3	B1H3C3	B1H3D3
3.5	X										
4	X		B1H1B4	B1H1C4	B1H1D4	B1H2B4	B1H2C4	B1H2D4	B1H3B4	B1H3C4	B1H3D4
5	X		B1H1B5	B1H1C5	B1H1D5	B1H2B5	B1H2C5	B1H2D5	B1H3B5	B1H3C5	B1H3D5
6	X		B1H1B6	B1H1C6	B1H1D6	B1H2B6	B1H2C6	B1H2D6	B1H3B6	B1H3C6	B1H3D6
7	X										
8	X		B1H1B8	B1H1C8	B1H1D8	B1H2B8	B1H2C8	B1H2D8	B1H3B8	B1H3C8	B1H3D8
9	X										
10	X		B1H1B10	B1H1C10	B1H1D10	B1H2B10	B1H2C10	B1H2D10	B1H3B10	B1H3C10	B1H3D10
12	X										
13	X		B1H1B13	B1H1C13	B1H1D13	B1H2B13	B1H2C13	B1H2D13	B1H3B13	B1H3C13	B1H3D13
14	X										
15	X		B1H1B15	B1H1C15	B1H1D15	B1H2B15	B1H2C15	B1H2D15	B1H3B15	B1H3C15	B1H3D15
16	X		B1H1B16	B1H1C16	B1H1D16	B1H2B16	B1H2C16	B1H2D16	B1H3B16	B1H3C16	B1H3D16
20	X		B1H1B20	B1H1C20	B1H1D20	B1H2B20	B1H2C20	B1H2D20	B1H3B20	B1H3C20	B1H3D20
25											
30											
32											
35											
40											
45											
50											
55											
60											
63											
70											
80											
90											
100											
110											
125											



NOARK B1H - TECHNICAL REFERENCE

Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20,
Voltage	277/480 VAC Wye, 60-125 VDC
Short Circuit	10kA
Poles	1,2,3,
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.8mm
Wire Size	14-6 AWG
Tightening Torque	31 lb in
Certifications	UL489, CSA22.2, CE
Calibration Temperature	40 deg C
Operating Temperature	-5 to +40 deg C

MCA FABRICATION NOARK B1N SERIES BREAKER



NOARK B1N SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5	X		B1N1B0.5	B1N1C0.5	B1N1D0.5	B1N2B0.5	B1N2C0.5	B1N2D0.5	B1N3B0.5	B1N3C0.5	B1N3D0.5
0.75	X										
1	X		B1N1B1	B1N1C1	B1N1D1	B1N2B1	B1N2C1	B1N2D1	B1N3B1	B1N3C1	B1N3D1
1.2	X										
1.5	X										
1.6	X		B1N1B1.6	B1N1C1.6	B1N1D1.6	B1N2B1.6	B1N2C1.6	B1N2D1.6	B1N3B1.6	B1N3C1.6	B1N3D1.6
2	X		B1N1B2	B1N1C2	B1N1D2	B1N2B2	B1N2C2	B1N2D2	B1N3B2	B1N3C2	B1N3D2
2.5	X										
3	X		B1N1B3	B1N1C3	B1N1D3	B1N2B3	B1N2C3	B1N2D3	B1N3B3	B1N3C3	B1N3D3
3.5	X										
4	X		B1N1B4	B1N1C4	B1N1D4	B1N2B4	B1N2C4	B1N2D4	B1N3B4	B1N3C4	B1N3D4
5	X		B1N1B5	B1N1C5	B1N1D5	B1N2B5	B1N2C5	B1N2D5	B1N3B5	B1N3C5	B1N3D5
6	X		B1N1B6	B1N1C6	B1N1D6	B1N2B6	B1N2C6	B1N2D6	B1N3B6	B1N3C6	B1N3D6
7	X										
8	X		B1N1B8	B1N1C8	B1N1D8	B1N2B8	B1N2C8	B1N2D8	B1N3B8	B1N3C8	B1N3D8
9	X										
10	X		B1N1B10	B1N1C10	B1N1D10	B1N2B10	B1N2C10	B1N2D10	B1N3B10	B1N3C10	B1N3D10
12	X										
13	X		B1N1B13	B1N1C13	B1N1D13	B1N2B13	B1N2C13	B1N2D13	B1N3B13	B1N3C13	B1N3D13
14	X										
15	X		B1N1B15	B1N1C15	B1N1D15	B1N2B15	B1N2C15	B1N2D15	B1N3B15	B1N3C15	B1N3D15
16	X		B1N1B16	B1N1C16	B1N1D16	B1N2B16	B1N2C16	B1N2D16	B1N3B16	B1N3C16	B1N3D16
20	X		B1N1B20	B1N1C20	B1N1D20	B1N2B20	B1N2C20	B1N2D20	B1N3B20	B1N3C20	B1N3D20
25	X		B1N1B25	B1N1C25	B1N1D25	B1N2B25	B1N2C25	B1N2D25	B1N3B25	B1N3C25	B1N3D25
30	X		B1N1B30	B1N1C30	B1N1D30	B1N2B30	B1N2C30	B1N2D30	B1N3B30	B1N3C30	B1N3D30
32	X		B1N1B32	B1N1C32	B1N1D32	B1N2B32	B1N2C32	B1N2D32	B1N3B32	B1N3C32	B1N3D32
35	X		B1N1B35	B1N1C35	B1N1D35	B1N2B35	B1N2C35	B1N2D35	B1N3B35	B1N3C35	B1N3D35
40	X		B1N1B40	B1N1C40	B1N1D40	B1N2B40	B1N2C40	B1N2D40	B1N3B40	B1N3C40	B1N3D40
45	X										
50	X		B1N1B50	B1N1C50	B1N1D50	B1N2B50	B1N2C50	B1N2D50	B1N3B50	B1N3C50	B1N3D50
55	X										
60	X		B1N1B60	B1N1C60	B1N1D60	B1N2B60	B1N2C60	B1N2D60	B1N3B60	B1N3C60	B1N3D60
63	X		B1N1B63	B1N1C63	B1N1D63	B1N2B63	B1N2C63	B1N2D63	B1N3B63	B1N3C63	B1N3D63
70											
80											
90											
100											
110											
125											



NOARK B1N - TECHNICAL REFERENCE

Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63
Voltage	120/240 VAC Wye, 60-125VDC
Short Circuit	10kA
Poles	1,2,3
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.8mm
Wire Size	14-6 AWG
Tightening Torque	31 lb in
Certifications	UL489, CSA22.2, CE
Calibration Temperature	40 deg C
Operating Temperature	-5 to +40 deg C

MCA FABRICATION ROCKWELL 1489M SERIES BREAKER



ROCKWELL 1489M SERIES - PART NUMBER REFERENCE								
Rated Current	240	277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2								
0.3								
0.5	X	X	1489-M1C005	1489-M1D005	1489-M2C005	1489-M2D005	1489-M3C005	1489-M3D005
0.75	X	X						
1	X	X	1489-M1C010	1489-M1D010	1489-M2C010	1489-M2D010	1489-M3C010	1489-M3D010
1.2	X	X						
1.5	X	X						
1.6	X	X	1489-M1C016	1489-M1D016	1489-M2C016	1489-M2D016	1489-M3C016	1489-M3D016
2	X	X	1489-M1C020	1489-M1D020	1489-M2C020	1489-M2D020	1489-M3C020	1489-M3D020
2.5	X	X						
3	X	X	1489-M1C030	1489-M1D030	1489-M2C030	1489-M2D030	1489-M3C030	1489-M3D030
3.5	X	X						
4	X	X	1489-M1C040	1489-M1D040	1489-M2C040	1489-M2D040	1489-M3C040	1489-M3D040
5	X	X	1489-M1C050	1489-M1D050	1489-M2C050	1489-M2D050	1489-M3C050	1489-M3D050
6	X	X	1489-M1C060	1489-M1D060	1489-M2C060	1489-M2D060	1489-M3C060	1489-M3D060
7	X	X	1489-M1C070	1489-M1D070	1489-M2C070	1489-M2D070	1489-M3C070	1489-M3D070
8	X	X	1489-M1C080	1489-M1D080	1489-M2C080	1489-M2D080	1489-M3C080	1489-M3D080
9	X	X						
10	X	X	1489-M1C100	1489-M1D100	1489-M2C100	1489-M2D100	1489-M3C100	1489-M3D100
12	X	X						
13	X	X	1489-M1C130	1489-M1D130	1489-M2C130	1489-M2D130	1489-M3C130	1489-M3D130
14	X	X						
15	X	X	1489-M1C150	1489-M1D150	1489-M2C150	1489-M2D150	1489-M3C150	1489-M3D150
16	X	X	1489-M1C160	1489-M1D160	1489-M2C160	1489-M2D160	1489-M3C160	1489-M3D160
20	X	X	1489-M1C200	1489-M1D200	1489-M2C200	1489-M2D200	1489-M3C200	1489-M3D200
25	X	X	1489-M1C250	1489-M1D250	1489-M2C250	1489-M2D250	1489-M3C250	1489-M3D250
30	X	X	1489-M1C300	1489-M1D300	1489-M2C300	1489-M2D300	1489-M3C300	1489-M3D300
32	X	X	1489-M1C320	1489-M1D320	1489-M2C320	1489-M2D320	1489-M3C320	1489-M3D320
35	X	X	1489-M1C350	1489-M1D350	1489-M2C350	1489-M2D350	1489-M3C350	1489-M3D350
40	X	X	1489-M1C400	1489-M1D400	1489-M2C400	1489-M2D400	1489-M3C400	1489-M3D400
45	X							
50	X		1489-M1C500	1489-M1D500	1489-M2C500	1489-M2D500	1489-M3C500	1489-M3D500
55	X							
60	X		1489-M1C600	1489-M1D600	1489-M2C600	1489-M2D600	1489-M3C600	1489-M3D600
63	X		1489-M1C630	1489-M1D630	1489-M2C630	1489-M2D630	1489-M3C630	1489-M3D630
70								
80								
90								
100								
110								
125								



ROCKWELL 1489M - TECHNICAL REFERENCE

Amps	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100
Voltage	120/240/277/480 VAC Wye, 48/90 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	
Position Indicator	No Indicator, Center Trip Positon
Auxillary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	
Current Limiting	No
IEC	No
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	25.4 mm
Wire Size	14-10 AWG, 8-4 AWG, 4-1/0 AWG
Tightening Torque	20 lb in 32 lb in 50 lb in
Certifications	UL489, CSA C22.2
Calibration Temperature	20 deg C
Operating Temperature	0 to +60 deg C

MCA FABRICATION ROCKWELL MCA/MCEA/MCGA SERIES BREAKER



ROCKWELL MCA/MCEA/MCGA SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	MCA/MCB 1 Pole	MCA/MCB 2 Pole	MCEA 1 Pole	MCEA 2 Pole	MCGA 1 Pole	MCGA 2 Pole
0.1								
0.2								
0.3								
0.5								
0.75								
1								
1.2								
1.5								
1.6								
2								
2.5								
3								
3.5								
4								
5								
6								
7								
8								
9								
10	X		1492-MCAA110	1492-MCAA210				
12	X							
13	X							
14	X							
15	X		1492-MCAA115	1492-MCAA215	1492-MCEA115	1492-MCEA215	1492-MCGA115	1492-MCGA215
16	X							
20	X		1492-MCAA120	1492-MCAA220				
25	X		1492-MCAA125	1492-MCAA225	1492-MCEA120	1492-MCEA220	1492-MCGA120	1492-MCGA220
30	X		1492-MCAA130	1492-MCAA230	1492-MCEA130	1492-MCEA230	1492-MCGA130	1492-MCGA230
32	X							
35	X		1492-MCAA135	1492-MCAA235				
40	X		1492-MCAA140	1492-MCAA240	1492-MCEA140	1492-MCEA240	1492-MCGA140	1492-MCGA240
45	X		1492-MCAA145	1492-MCAA245				
50	X		1492-MCAA150	1492-MCAA250		1492-MCEA250		1492-MCGA250
55	X		1492-MCAA155	1492-MCAA255				
60	X		1492-MCAA160	1492-MCAA260				
63	X							
70	X		1492-MCAA170	1492-MCAA270				
80	X		1492-MCAA180	1492-MCAA280				
90	X		1492-MCAA190	1492-MCAA290				
100	X		1492-MCAA1A0	1492-MCAA2A0				
110								
125								



ROCKWELL MCA/MCEA/MCGA - TECHNICAL REFERENCE

Amps	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100
Voltage	120/240/277/480 VAC Wye, 48/90 VDC
Short Circuit	10kA
Poles	1,2,3
Curves	
Position Indicator	No Indicator, Center Trip Position
Auxiliary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	
Current Limiting	No
IEC	No
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	25.4 mm
Wire Size	14-10 AWG, 8-4 AWG, 4-1/0 AWG
Tightening Torque	20 lb in 32 lb in 50 lb in
Certifications	UL489, CSA C22.2
Calibration Temperature	20 deg C
Operating Temperature	0 to +60 deg C

MCA FABRICATION SCHNEIDER MULT 9 C60 SERIES BREAKER



SCHNEIDER MULTI 9 C60 SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2								
0.3								
0.5	X		60100	60117	60134	60151		
0.75	X							
1	X	X	60101	60118	60135	60152	60168	60184
1.2	X	X						
1.5	X	X	60102	60119	60136	60153	60169	60185
1.6	X	X						
2	X	X	60103	60120	60137	60154	60170	60186
2.5	X	X						
3	X	X	60104	60121	60138	60155	60171	60187
3.5	X	X						
4	X	X	60105	60122	60139	60156	60172	60188
5	X	X	60106	60123	60140	60157	60173	60189
6	X	X	60107	60124	60141	60158	60174	60190
7	X	X	60108	60125	60142	60159	60175	60191
8	X	X	60109	60126	60143	60160	60176	60192
9	X	X						
10	X	X	60110	60127	60144	60161	60177	60193
12	X	X						
13	X	X	60111	60128	60145	60162	60178	60194
14	X	X						
15	X	X	60112	60129	60146	60163	60179	60195
16	X	X						
20	X	X	60113	60130	60147	60164	60180	60196
25	X		60114	60131	60148	60165	60181	60197
30	X		60115	60132	60149	60166	60182	60198
32	X							
35	X		60116	60133	60150	60167	60183	60199
40								
45								
50								
55								
60								
63								
70								
80								
90								
100								
110								
125								



SCHNEIDER MULTI 9 C60 - TECHNICAL REFERENCE	
Amps	.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 20 @ 120/240/277/480VAC & 60/125VDC, 25, 30, 35 @ 120/240VAC & 60/125VDC
Voltage	120/240/277/480 VAC Wye, 60/125 VDC
Short Circuit	10kA
Poles	1,2,3,
Curves	B, C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	6K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	Yes
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.8mm
Wire Size	14-4 AWG
Tightening Torque	22 lb in
Certifications	UL489, CSA22.2, CE
Calibration Temperature	25 deg C
Operating Temperature	-30 to +70 deg C

MCA FABRICATION SQD QOU SERIES BREAKER



SQD QOU SERIES - PART NUMBER REFERENCE					
Rated Current	Voltage 240	Voltage 277	QOU 1 Pole	QOU 2 Pole	QOU 3 Pole
0.1					
0.2					
0.3					
0.5					
0.75					
1					
1.2					
1.5					
1.6					
2					
2.5					
3					
3.5					
4					
5					
6					
7					
8					
9					
10	X		QOU110	QOU210	QOU310
12	X				
13	X				
14	X				
15	X		QOU115	QOU215	QOU315
16	X				
20	X		QOU120	QOU220	QOU320
25	X		QOU125	QOU225	QOU325
30	X		QOU130	QOU230	QOU330
32	X				
35	X		QOU135	QOU235	QOU335
40	X		QOU140	QOU240	QOU340
45	X		QOU145	QOU245	QOU345
50	X		QOU150	QOU250	QOU350
55	X				
60	X		QOU160	QOU260	QOU360
63	X				
70	X		QOU170	QOU270	QOU370
80	X		QOU180	QOU280	QOU380
90	X		QOU190	QOU290	QOU390
100	X		QOU1100	QOU2100	QOU3100
110	X				
125	X			QOU2125	



SQD QOU - TECHNICAL REFERENCE

Amps	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 @ 120/240VAC
Voltage	120/240 VAC, 48-60 VDC
Short Circuit	10kA standard, 22kA with "H & VH" version VAC5kA VDC
Poles	1,2,3,
Curves	
Position Indicator	No Indicator, Center Trip Positon
Auxillary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	6K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	Yes
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	19.05mm
Wire Size	14-3 AWG
Tightening Torque	50 lb in
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	-10 to +60 deg C

MCA FABRICATION SIEMENS 5SJ4 HG41 SERIES BREAKER



SIEMENS 5SJ4 HG41 SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2								
0.3	X		5SJ4 114-7HG41	5SJ4 114-8HG41	5SJ4 214-7HG41	5SJ4 214-8HG41	5SJ4 314-7HG41	5SJ4 314-8HG41
0.5	X		5SJ4 105-7HG41	5SJ4 105-8HG41	5SJ4 205-7HG41	5SJ4 205-8HG41	5SJ4 305-7HG41	5SJ4 305-8HG41
0.75	X							
1	X		5SJ4 101-7HG41	5SJ4 101-8HG41	5SJ4 201-7HG41	5SJ4 201-8HG41	5SJ4 301-7HG41	5SJ4 301-8HG41
1.2	X							
1.5	X							
1.6	X		5SJ4 115-7HG41	5SJ4 115-8HG41	5SJ4 215-7HG41	5SJ4 215-8HG41	5SJ4 315-7HG41	5SJ4 315-8HG41
2	X		5SJ4 102-7HG41	5SJ4 102-8HG41	5SJ4 202-7HG41	5SJ4 202-8HG41	5SJ4 302-7HG41	5SJ4 302-8HG41
2.5	X							
3	X		5SJ4 103-7HG41	5SJ4 103-8HG41	5SJ4 203-7HG41	5SJ4 203-8HG41	5SJ4 303-7HG41	5SJ4 303-8HG41
3.5	X							
4	X		5SJ4 104-7HG41	5SJ4 104-8HG41	5SJ4 204-7HG41	5SJ4 204-8HG41	5SJ4 304-7HG41	5SJ4 304-8HG41
5	X		5SJ4 111-7HG41	5SJ4 111-8HG41	5SJ4 211-7HG41	5SJ4 211-8HG41	5SJ4 311-7HG41	5SJ4 311-8HG41
6	X		5SJ4 106-7HG41	5SJ4 106-8HG41	5SJ4 206-7HG41	5SJ4 206-8HG41	5SJ4 306-7HG41	5SJ4 306-8HG41
7	X							
8	X		5SJ4 108-7HG41	5SJ4 108-8HG41	5SJ4 208-7HG41	5SJ4 208-8HG41	5SJ4 308-7HG41	5SJ4 308-8HG41
9	X							
10	X		5SJ4 110-7HG41	5SJ4 110-8HG41	5SJ4 210-7HG41	5SJ4 210-8HG41	5SJ4 310-7HG41	5SJ4 310-8HG41
12	X							
13	X		5SJ4 113-7HG41	5SJ4 113-8HG41	5SJ4 213-7HG41	5SJ4 213-8HG41	5SJ4 313-7HG41	5SJ4 313-8HG41
14	X							
15	X		5SJ4 115-7HG41	5SJ4 115-8HG41	5SJ4 215-7HG41	5SJ4 215-8HG41	5SJ4 315-7HG41	5SJ4 315-8HG41
16	X		5SJ4 116-7HG41	5SJ4 116-8HG41	5SJ4 216-7HG41	5SJ4 216-8HG41	5SJ4 316-7HG41	5SJ4 316-8HG41
20	X		5SJ4 120-7HG41	5SJ4 120-8HG41	5SJ4 220-7HG41	5SJ4 220-8HG41	5SJ4 320-7HG41	5SJ4 320-8HG41
25	X		5SJ4 125-7HG41	5SJ4 125-8HG41	5SJ4 225-7HG41	5SJ4 225-8HG41	5SJ4 325-7HG41	5SJ4 325-8HG41
30	X		5SJ4 130-7HG41	5SJ4 130-8HG41	5SJ4 230-7HG41	5SJ4 230-8HG41	5SJ4 330-7HG41	5SJ4 330-8HG41
32	X		5SJ4 132-7HG41	5SJ4 132-8HG41	5SJ4 232-7HG41	5SJ4 232-8HG41	5SJ4 332-7HG41	5SJ4 332-8HG41
35	X		5SJ4 135-7HG41	5SJ4 135-8HG41	5SJ4 235-7HG41	5SJ4 235-8HG41	5SJ4 335-7HG41	5SJ4 335-8HG41
40	X		5SJ4 140-7HG41	5SJ4 140-8HG41	5SJ4 240-7HG41	5SJ4 240-8HG41	5SJ4 340-7HG41	5SJ4 340-8HG41
45	X		5SJ4 145-7HG41	5SJ4 145-8HG41	5SJ4 245-7HG41	5SJ4 245-8HG41	5SJ4 345-7HG41	5SJ4 345-8HG41
50	X		5SJ4 150-7HG41	5SJ4 150-8HG41	5SJ4 250-7HG41	5SJ4 250-8HG41	5SJ4 350-7HG41	5SJ4 350-8HG41
55	X							
60	X		5SJ4 160-7HG41	5SJ4 160-8HG41	5SJ4 260-7HG41	5SJ4 260-8HG41	5SJ4 360-7HG41	5SJ4 360-8HG41
63	X		5SJ4 163-7HG41	5SJ4 163-8HG41	5SJ4 263-7HG41	5SJ4 263-8HG41	5SJ4 363-7HG41	5SJ4 363-8HG41
70								
80								
90								
100								
110								
125								



SIEMENS 5SJ4 HG41 - TECHNICAL REFERENCE

Amps	.3, 5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40, 45, 50, 60, 63 @ 120/240VAC, 60/125VDC
Voltage	120/240 VAC, 60/125VDC
Short Circuit	10kA and 14kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxiliary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	2K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	18mm
Wire Size	14-4 AWG
Tightening Torque	3.5 Nm
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +45 deg C

MCA FABRICATION SIEMENS 5SJ4 HG42 SERIES BREAKER



SIEMENS 5SJ4 HG42 SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve		D Curve		D Curve	
			1 Pole	1 Pole	2 Pole	2 Pole	3 Pole	3 Pole
0.1								
0.2								
0.3	X		5SJ4 114-7HG42	5SJ4 114-8HG42	5SJ4 214-7HG42	5SJ4 214-8HG42	5SJ4 314-7HG42	5SJ4 314-8HG42
0.5	X		5SJ4 105-7HG42	5SJ4 105-8HG42	5SJ4 205-7HG42	5SJ4 205-8HG42	5SJ4 305-7HG42	5SJ4 305-8HG42
0.75	X							
1	X		5SJ4 101-7HG42	5SJ4 101-8HG42	5SJ4 201-7HG42	5SJ4 201-8HG42	5SJ4 301-7HG42	5SJ4 301-8HG42
1.2	X							
1.5	X							
1.6	X		5SJ4 115-7HG42	5SJ4 115-8HG42	5SJ4 215-7HG42	5SJ4 215-8HG42	5SJ4 315-7HG42	5SJ4 315-8HG42
2	X		5SJ4 102-7HG42	5SJ4 102-8HG42	5SJ4 202-7HG42	5SJ4 202-8HG42	5SJ4 302-7HG42	5SJ4 302-8HG42
2.5	X							
3	X		5SJ4 103-7HG42	5SJ4 103-8HG42	5SJ4 203-7HG42	5SJ4 203-8HG42	5SJ4 303-7HG42	5SJ4 303-8HG42
3.5	X							
4	X		5SJ4 104-7HG42	5SJ4 104-8HG42	5SJ4 204-7HG42	5SJ4 204-8HG42	5SJ4 304-7HG42	5SJ4 304-8HG42
5	X		5SJ4 111-7HG42	5SJ4 111-8HG42	5SJ4 211-7HG42	5SJ4 211-8HG42	5SJ4 311-7HG42	5SJ4 311-8HG42
6	X		5SJ4 106-7HG42	5SJ4 106-8HG42	5SJ4 206-7HG42	5SJ4 206-8HG42	5SJ4 306-7HG42	5SJ4 306-8HG42
7	X							
8	X		5SJ4 108-7HG42	5SJ4 108-8HG42	5SJ4 208-7HG42	5SJ4 208-8HG42	5SJ4 308-7HG42	5SJ4 308-8HG42
9	X							
10	X		5SJ4 110-7HG42	5SJ4 110-8HG42	5SJ4 210-7HG42	5SJ4 210-8HG42	5SJ4 310-7HG42	5SJ4 310-8HG42
12	X							
13	X		5SJ4 113-7HG42	5SJ4 113-8HG42	5SJ4 213-7HG42	5SJ4 213-8HG42	5SJ4 313-7HG42	5SJ4 313-8HG42
14	X							
15	X		5SJ4 115-7HG42	5SJ4 115-8HG42	5SJ4 215-7HG42	5SJ4 215-8HG42	5SJ4 315-7HG42	5SJ4 315-8HG42
16	X		5SJ4 116-7HG42	5SJ4 116-8HG42	5SJ4 216-7HG42	5SJ4 216-8HG42	5SJ4 316-7HG42	5SJ4 316-8HG42
20	X		5SJ4 120-7HG42	5SJ4 120-8HG42	5SJ4 220-7HG42	5SJ4 220-8HG42	5SJ4 320-7HG42	5SJ4 320-8HG42
25	X		5SJ4 125-7HG42	5SJ4 125-8HG42	5SJ4 225-7HG42	5SJ4 225-8HG42	5SJ4 325-7HG42	5SJ4 325-8HG42
30	X		5SJ4 130-7HG42	5SJ4 130-8HG42	5SJ4 230-7HG42	5SJ4 230-8HG42	5SJ4 330-7HG42	5SJ4 330-8HG42
32	X		5SJ4 132-7HG42	5SJ4 132-8HG42	5SJ4 232-7HG42	5SJ4 232-8HG42	5SJ4 332-7HG42	5SJ4 332-8HG42
35	X		5SJ4 135-7HG42	5SJ4 135-8HG42	5SJ4 235-7HG42	5SJ4 235-8HG42	5SJ4 335-7HG42	5SJ4 335-8HG42
40	X		5SJ4 140-7HG42	5SJ4 140-8HG42	5SJ4 240-7HG42	5SJ4 240-8HG42	5SJ4 340-7HG42	5SJ4 340-8HG42
45								
50								
55								
60								
63								
70								
80								
90								
100								
110								
125								



SIEMENS 5SJ4 HG42 - TECHNICAL REFERENCE	
Amps	.3, 5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 @ 277/480VAC, 60/125VDC
Voltage	277/480 VAC, 60/125VDC
Short Circuit	10kA and 14kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxiliary Contact	No
Shunt Trip	No
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	2K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	18mm
Wire Size	14-4 AWG
Tightening Torque	3.5 Nm
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +45 deg C

MCA FABRICATION SIEMENS BQ SERIES BREAKER



SIEMENS BQ/BQH/HQB SERIES - PART NUMBER REFERENCE

Rated Current	Voltage 240	Voltage 277	BQ 1 Pole	BQ 1 Pole	BQ 1 Pole	BQH 2 Pole	BQH 2 Pole	BQH 2 Pole	HQB 3 Pole	HQB 3 Pole	HQB 3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1											
1.2											
1.5											
1.6											
2											
2.5											
3											
3.5											
4											
5											
6											
7											
8											
9											
10											
12											
13											
14											
15	X		BQ1B015L	BQ2B015L	BQ3B015L	BQ1B015LH	BQ2B015LH	BQ3B015LH	HB1B015L	HB2B015L	HB3B015L
16	X										
20	X		BQ1B020L	BQ2B020L	BQ3B020L	BQ1B020LH	BQ2B020LH	BQ3B020LH	HB1B020L	HB2B020L	HB3B020L
25	X		BQ1B025L	BQ2B025L	BQ3B025L	BQ1B025LH	BQ2B025LH	BQ3B025LH	HB1B025L	HB2B025L	HB3B025L
30	X		BQ1B030L	BQ2B030L	BQ3B030L	BQ1B030LH	BQ2B030LH	BQ3B030LH	HB1B030L	HB2B030L	HB3B030L
32	X										
35	X		BQ1B035L	BQ2B035L	BQ3B035L	BQ1B035LH	BQ2B035LH	BQ3B035LH	HB1B035L	HB2B035L	HB3B035L
40	X		BQ1B040L	BQ2B040L	BQ3B040L	BQ1B040LH	BQ2B040LH	BQ3B040LH	HB1B040L	HB2B040L	HB3B040L
45	X		BQ1B045L	BQ2B045L	BQ3B045L	BQ1B045LH	BQ2B045LH	BQ3B045LH	HB1B045L	HB2B045L	HB3B045L
50	X		BQ1B050L	BQ2B050L	BQ3B050L	BQ1B050LH	BQ2B050LH	BQ3B050LH	HB1B050L	HB2B050L	HB3B050L
55	X										
60	X		BQ1B060L	BQ2B060L	BQ3B060L	BQ1B060LH	BQ2B060LH	BQ3B060LH	HB1B060L	HB2B060L	HB3B060L
63	X										
70	X		BQ1B060L	BQ2B070L	BQ3B070L	BQ1B060LH	BQ2B070LH	BQ3B070LH	HB1B060L	HB2B070L	HB3B070L
80	X			BQ2B080L	BQ3B080L		BQ2B080LH	BQ3B080LH		HB2B080L	HB3B080L
90	X			BQ2B090L	BQ3B090L		BQ2B090LH	BQ3B090LH		HB2B090L	HB3B090L
100	X			BQ2B100L	BQ3B100L		BQ2B100LH	BQ3B100LH		HB2B100L	HB3B100L
110	X			BQ2B110L			BQ2B110LH			HB2B110L	
125	X			BQ2B125L			BQ2B125LH			HB2B125L	



SIEMENS BQ/BQH/HQB - TECHNICAL REFERENCE

Amps	15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125
Voltage	120/240 VAC
Short Circuit	10kA
Poles	1,2,3
Curves	
Position Indicator	No Indicator, Center Trip Position
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	No
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	No
Mechanical Life	
Current Limiting	No
IEC	No
Rotary Handle	No
Lockout Tagout	No
Ring Tongue	No
Width Dimensions	25.4mm
Wire Size	14-10 AWG, 8 AWG, 6-4 AWG, 3-1/0 AWG
Tightening Torque	35 lb in 40 lb in 45 lb in 50 lb in
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	

MCA FABRICATION SPRECHER + SCHUH L9 SERIES BREAKER



SPRECHER + SCHUH L9 SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2								
0.3								
0.5	X	X	L9-0.5/1/C	L9-0.5/1/D	L9-0.5/2/C	L9-0.5/2/D	L9-0.5/3/C	L9-0.5/3/D
0.75	X	X						
1	X	X	L9-1/1/C	L9-1/1/D	L9-1/2/C	L9-1/2/D	L9-1/3/C	L9-1/3/D
1.2	X	X						
1.5	X	X						
1.6	X	X	L9-1.6/1/C	L9-1.6/1/D	L9-1.6/2/C	L9-1.6/2/D	L9-1.6/3/C	L9-1.6/3/D
2	X	X	L9-2/1/C	L9-2/1/D	L9-2/2/C	L9-2/2/D	L9-2/3/C	L9-2/3/D
2.5	X	X						
3	X	X	L9-3/1/C	L9-3/1/D	L9-3/2/C	L9-3/2/D	L9-3/3/C	L9-3/3/D
3.5	X	X						
4	X	X	L9-4/1/C	L9-4/1/D	L9-4/2/C	L9-4/2/D	L9-4/3/C	L9-4/3/D
5	X	X	L9-5/1/C	L9-5/1/D	L9-5/2/C	L9-5/2/D	L9-5/3/C	L9-5/3/D
6	X	X	L9-6/1/C	L9-6/1/D	L9-6/2/C	L9-6/2/D	L9-6/3/C	L9-6/3/D
7	X	X	L9-7/1/C	L9-7/1/D	L9-7/2/C	L9-7/2/D	L9-7/3/C	L9-7/3/D
8	X	X	L9-8/1/C	L9-8/1/D	L9-8/2/C	L9-8/2/D	L9-8/3/C	L9-8/3/D
9	X	X						
10	X	X	L9-10/1/C	L9-10/1/D	L9-10/2/C	L9-10/2/D	L9-10/3/C	L9-10/3/D
12	X	X						
13	X	X	L9-13/1/C	L9-13/1/D	L9-13/2/C	L9-13/2/D	L9-13/3/C	L9-13/3/D
14	X	X						
15	X	X	L9-15/1/C	L9-15/1/D	L9-15/2/C	L9-15/2/D	L9-15/3/C	L9-15/3/D
16	X	X	L9-16/1/C	L9-16/1/D	L9-16/2/C	L9-16/2/D	L9-16/3/C	L9-16/3/D
20	X	X	L9-20/1/C	L9-20/1/D	L9-20/2/C	L9-20/2/D	L9-20/3/C	L9-20/3/D
25	X	X	L9-25/1/C	L9-25/1/D	L9-25/2/C	L9-25/2/D	L9-25/3/C	L9-25/3/D
30	X	X	L9-30/1/C	L9-30/1/D	L9-30/2/C	L9-30/2/D	L9-30/3/C	L9-30/3/D
32	X	X	L9-32/1/C	L9-32/1/D	L9-32/2/C	L9-32/2/D	L9-32/3/C	L9-32/3/D
35	X	X	L9-35/1/C	L9-35/1/D	L9-35/2/C	L9-35/2/D	L9-35/3/C	L9-35/3/D
40	X	X	L9-40/1/C	L9-40/1/D	L9-40/2/C	L9-40/2/D	L9-40/3/C	L9-40/3/D
45	X							
50	X		L9-50/1/C	L9-50/1/D	L9-50/2/C	L9-50/2/D	L9-50/3/C	L9-50/3/D
55	X							
60	X		L9-60/1/C	L9-60/1/D	L9-60/2/C	L9-60/2/D	L9-60/3/C	L9-60/3/D
63	X		L9-63/1/C	L9-63/1/D	L9-63/2/C	L9-63/2/D	L9-63/3/C	L9-63/3/D
70								
80								
90								
100								
110								
125								



SPRECHER + SCHUH L9 - TECHNICAL REFERENCE	
Amps	.5, 1, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63 @ 120/240VAC .5, 1, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 15, 16, 20, 25, 30, 32, 35, 40 @ 120/240/277/480VAC
Voltage	277/480 VAC, 60/125VDC
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	2K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	14-4 AWG
Tightening Torque	3.5 Nm
Certifications	UL489, CSA22.2
Calibration Temperature	40 deg C
Operating Temperature	-25 to +45 deg C

MCA FABRICATION TECHNA JTECH SERIES BREAKER



TECHNA JTECH SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole
0.1								
0.2	X	X	JTECH4891B0.2	JTECH4891C0.2	JTECH4892B0.2	JTECH4892C0.2	JTECH4893B0.2	JTECH4893C0.2
0.3	X	X						
0.5	X	X	JTECH4891B0.5	JTECH4891C0.5	JTECH4892B0.5	JTECH4892C0.5	JTECH4893B0.5	JTECH4893C0.5
0.75	X	X						
1	X	X	JTECH4891B01	JTECH4891C01	JTECH4892B01	JTECH4892C01	JTECH4893B01	JTECH4893C01
1.2	X	X						
1.5	X	X						
1.6	X	X	JTECH4891B1.6	JTECH4891C1.6	JTECH4892B1.6	JTECH4892C1.6	JTECH4893B1.6	JTECH4893C1.6
2	X	X	JTECH4891B02	JTECH4891C02	JTECH4892B02	JTECH4892C02	JTECH4893B02	JTECH4893C02
2.5	X	X						
3	X	X	JTECH4891B03	JTECH4891C03	JTECH4892B03	JTECH4892C03	JTECH4893B03	JTECH4893C03
3.5	X	X						
4	X	X	JTECH4891B04	JTECH4891C04	JTECH4892B04	JTECH4892C04	JTECH4893B04	JTECH4893C04
5	X	X	JTECH4891B05	JTECH4891C05	JTECH4892B05	JTECH4892C05	JTECH4893B05	JTECH4893C05
6	X	X	JTECH4891B06	JTECH4891C06	JTECH4892B06	JTECH4892C06	JTECH4893B06	JTECH4893C06
7	X	X	JTECH4891B07	JTECH4891C07	JTECH4892B07	JTECH4892C07	JTECH4893B07	JTECH4893C07
8	X	X	JTECH4891B08	JTECH4891C08	JTECH4892B08	JTECH4892C08	JTECH4893B08	JTECH4893C08
9	X	X	JTECH4891B09	JTECH4891C09	JTECH4892B09	JTECH4892C09	JTECH4893B09	JTECH4893C09
10	X	X	JTECH4891B10	JTECH4891C10	JTECH4892B10	JTECH4892C10	JTECH4893B10	JTECH4893C10
12	X	X						
13	X	X	JTECH4891B13	JTECH4891C13	JTECH4892B13	JTECH4892C13	JTECH4893B13	JTECH4893C13
14	X	X						
15	X	X	JTECH4891B15	JTECH4891C15	JTECH4892B15	JTECH4892C15	JTECH4893B15	JTECH4893C15
16	X	X	JTECH4891B16	JTECH4891C16	JTECH4892B16	JTECH4892C16	JTECH4893B16	JTECH4893C16
20	X	X	JTECH4891B20	JTECH4891C20	JTECH4892B20	JTECH4892C20	JTECH4893B20	JTECH4893C20
25	X	X	JTECH4891B25	JTECH4891C25	JTECH4892B25	JTECH4892C25	JTECH4893B25	JTECH4893C25
30	X	X	JTECH4891B30	JTECH4891C30	JTECH4892B30	JTECH4892C30	JTECH4893B30	JTECH4893C30
32	X		JTECH4891B32	JTECH4891C32	JTECH4892B32	JTECH4892C32	JTECH4893B32	JTECH4893C32
35	X		JTECH4891B35	JTECH4891C35	JTECH4892B35	JTECH4892C35	JTECH4893B35	JTECH4893C35
40	X		JTECH4891B40	JTECH4891C40	JTECH4892B40	JTECH4892C40	JTECH4893B40	JTECH4893C40
45	X							
50	X		JTECH4891B50	JTECH4891C50	JTECH4892B50	JTECH4892C50	JTECH4893B50	JTECH4893C50
55	X							
60	X		JTECH4891B60	JTECH4891C60	JTECH4892B60	JTECH4892C60	JTECH4893B60	JTECH4893C60
63	X		JTECH4891B63	JTECH4891C63	JTECH4892B63	JTECH4892C63	JTECH4893B63	JTECH4893C63
70								
80								
90								
100								
110								
125								



TECHNA JTECH - TECHNICAL REFERENCE	
Amps	.2, 5, 1, 1.6, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 20, 25, 32 @ 120/240/277/480 VAC & 125/250VDC 35, 40, 50, 60, 63 @ 120/240 VAC & 125/250 VDC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3,4
Curves	B, C, D, K
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	6K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	12-3 AWG
Tightening Torque	17.5 lb in
Certifications	UL489, UL489A, CE
Calibration Temperature	30 deg C
Operating Temperature	-25 to +60 deg C

MCA FABRICATION TECHNA JTECH SERIES BREAKER



TECHNA JTECH SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	K Curve 1 Pole	D Curve 1 Pole	K Curve 2 Pole	D Curve 2 Pole	K Curve 3 Pole	D Curve 3 Pole
0.1								
0.2	X	X	JTECH4891K0.2	JTECH4891D0.2	JTECH4892K0.2	JTECH4892D0.2	JTECH4893K0.2	JTECH4893D0.2
0.3	X	X						
0.5	X	X	JTECH4891K0.5	JTECH4891D0.5	JTECH4892K0.5	JTECH4892D0.5	JTECH4893K0.5	JTECH4893D0.5
0.75	X	X						
1	X	X	JTECH4891K01	JTECH4891D01	JTECH4892K01	JTECH4892D01	JTECH4893K01	JTECH4893D01
1.2	X	X						
1.5	X	X						
1.6	X	X	JTECH4891K1.6	JTECH4891D1.6	JTECH4892K1.6	JTECH4892D1.6	JTECH4893K1.6	JTECH4893D1.6
2	X	X	JTECH4891K02	JTECH4891D02	JTECH4892K02	JTECH4892D02	JTECH4893K02	JTECH4893D02
2.5	X	X						
3	X	X	JTECH4891K03	JTECH4891D03	JTECH4892K03	JTECH4892D03	JTECH4893K03	JTECH4893D03
3.5	X	X						
4	X	X	JTECH4891K04	JTECH4891D04	JTECH4892K04	JTECH4892D04	JTECH4893K04	JTECH4893D04
5	X	X	JTECH4891K05	JTECH4891D05	JTECH4892K05	JTECH4892D05	JTECH4893K05	JTECH4893D05
6	X	X	JTECH4891K06	JTECH4891D06	JTECH4892K06	JTECH4892D06	JTECH4893K06	JTECH4893D06
7	X	X	JTECH4891K07	JTECH4891D07	JTECH4892K07	JTECH4892D07	JTECH4893K07	JTECH4893D07
8	X	X	JTECH4891K08	JTECH4891D08	JTECH4892K08	JTECH4892D08	JTECH4893K08	JTECH4893D08
9	X	X	JTECH4891K09	JTECH4891D09	JTECH4892K09	JTECH4892D09	JTECH4893K09	JTECH4893D09
10	X	X	JTECH4891K10	JTECH4891D10	JTECH4892K10	JTECH4892D10	JTECH4893K10	JTECH4893D10
12	X	X						
13	X	X	JTECH4891K13	JTECH4891D13	JTECH4892K13	JTECH4892D13	JTECH4893K13	JTECH4893D13
14	X	X						
15	X	X	JTECH4891K15	JTECH4891D15	JTECH4892K15	JTECH4892D15	JTECH4893K15	JTECH4893D15
16	X	X	JTECH4891K16	JTECH4891D16	JTECH4892K16	JTECH4892D16	JTECH4893K16	JTECH4893D16
20	X	X	JTECH4891K20	JTECH4891D20	JTECH4892K20	JTECH4892D20	JTECH4893K20	JTECH4893D20
25	X	X	JTECH4891K25	JTECH4891D25	JTECH4892K25	JTECH4892D25	JTECH4893K25	JTECH4893D25
30	X	X	JTECH4891K30	JTECH4891D30	JTECH4892K30	JTECH4892D30	JTECH4893K30	JTECH4893D30
32	X	X	JTECH4891K32	JTECH4891D32	JTECH4892K32	JTECH4892D32	JTECH4893K32	JTECH4893D32
35	X	X	JTECH4891K35	JTECH4891D35	JTECH4892K35	JTECH4892D35	JTECH4893K35	JTECH4893D35
40	X	X	JTECH4891K40	JTECH4891D40	JTECH4892K40	JTECH4892D40	JTECH4893K40	JTECH4893D40
45	X	X						
50	X	X	JTECH4891K50	JTECH4891D50	JTECH4892K50	JTECH4892D50	JTECH4893K50	JTECH4893D50
55	X	X						
60	X	X	JTECH4891K60	JTECH4891D60	JTECH4892K60	JTECH4892D60	JTECH4893K60	JTECH4893D60
63	X	X	JTECH4891K63	JTECH4891D63	JTECH4892K63	JTECH4892D63	JTECH4893K63	JTECH4893D63
70								
80								
90								
100								
110								
125								



TECHNA JTECH - TECHNICAL REFERENCE

Amps	.2, 5, 1, 1.6, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 20, 25, 32 @ 120/240/277/480 VAC & 125/250VDC 35, 40, 50, 60, 63 @ 120/240 VAC & 125/250 VDC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3,4
Curves	B, C, D, K
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	6K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	12-3 AWG
Tightening Torque	17.5 lb in
Certifications	UL489, UL489A, CE
Calibration Temperature	30 deg C
Operating Temperature	-25 to +60 deg C

MCA FABRICATION NADER NDB2T SERIES BREAKER



NADER NDB2T SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1	X	X	NDB2T-63B1-1L	NDB2T-63C1-1L	NDB2T-63D1-1L	NDB2T-63B1-2L	NDB2T-63C1-2L	NDB2T-63D1-2L	NDB2T-63B1-3L	NDB2T-63C1-3L	NDB2T-63D1-3L
1.2	X	X	NDB2T-63B1.2-1L	NDB2T-63C1.2-1L	NDB2T-63D1.2-1L	NDB2T-63B1.2-2L	NDB2T-63C1.2-2L	NDB2T-63D1.2-2L	NDB2T-63B1.2-3L	NDB2T-63C1.2-3L	NDB2T-63D1.2-3L
1.5	X	X	NDB2T-63B1.5-1L	NDB2T-63C1.5-1L	NDB2T-63D1.5-1L	NDB2T-63B1.5-2L	NDB2T-63C1.5-2L	NDB2T-63D1.5-2L	NDB2T-63B1.5-3L	NDB2T-63C1.5-3L	NDB2T-63D1.5-3L
1.6	X	X	NDB2T-63B1.6-1L	NDB2T-63C1.6-1L	NDB2T-63D1.6-1L	NDB2T-63B1.6-2L	NDB2T-63C1.6-2L	NDB2T-63D1.6-2L	NDB2T-63B1.6-3L	NDB2T-63C1.6-3L	NDB2T-63D1.6-3L
2	X	X	NDB2T-63B2-1L	NDB2T-63C2-1L	NDB2T-63D2-1L	NDB2T-63B2-2L	NDB2T-63C2-2L	NDB2T-63D2-2L	NDB2T-63B2-3L	NDB2T-63C2-3L	NDB2T-63D2-3L
2.5	X	X									
3	X	X	NDB2T-63B3-1L	NDB2T-63C3-1L	NDB2T-63D3-1L	NDB2T-63B3-2L	NDB2T-63C3-2L	NDB2T-63D3-2L	NDB2T-63B3-3L	NDB2T-63C3-3L	NDB2T-63D3-3L
3.5	X	X									
4	X	X	NDB2T-63B4-1L	NDB2T-63C4-1L	NDB2T-63D4-1L	NDB2T-63B4-2L	NDB2T-63C4-2L	NDB2T-63D4-2L	NDB2T-63B4-3L	NDB2T-63C4-3L	NDB2T-63D4-3L
5	X	X	NDB2T-63B5-1L	NDB2T-63C5-1L	NDB2T-63D5-1L	NDB2T-63B5-2L	NDB2T-63C5-2L	NDB2T-63D5-2L	NDB2T-63B5-3L	NDB2T-63C5-3L	NDB2T-63D5-3L
6	X	X	NDB2T-63B6-1L	NDB2T-63C6-1L	NDB2T-63D6-1L	NDB2T-63B6-2L	NDB2T-63C6-2L	NDB2T-63D6-2L	NDB2T-63B6-3L	NDB2T-63C6-3L	NDB2T-63D6-3L
7	X	X	NDB2T-63B7-1L	NDB2T-63C7-1L	NDB2T-63D7-1L	NDB2T-63B7-2L	NDB2T-63C7-2L	NDB2T-63D7-2L	NDB2T-63B7-3L	NDB2T-63C7-3L	NDB2T-63D7-3L
8	X	X	NDB2T-63B8-1L	NDB2T-63C8-1L	NDB2T-63D8-1L	NDB2T-63B8-2L	NDB2T-63C8-2L	NDB2T-63D8-2L	NDB2T-63B8-3L	NDB2T-63C8-3L	NDB2T-63D8-3L
9	X	X									
10	X	X	NDB2T-63B10-1L	NDB2T-63C10-1L	NDB2T-63D10-1L	NDB2T-63B10-2L	NDB2T-63C10-2L	NDB2T-63D10-2L	NDB2T-63B10-3L	NDB2T-63C10-3L	NDB2T-63D10-3L
12	X	X	NDB2T-63B12-1L	NDB2T-63C12-1L	NDB2T-63D12-1L	NDB2T-63B12-2L	NDB2T-63C12-2L	NDB2T-63D12-2L	NDB2T-63B12-3L	NDB2T-63C12-3L	NDB2T-63D12-3L
13	X	X	NDB2T-63B13-1L	NDB2T-63C13-1L	NDB2T-63D13-1L	NDB2T-63B13-2L	NDB2T-63C13-2L	NDB2T-63D13-2L	NDB2T-63B13-3L	NDB2T-63C13-3L	NDB2T-63D13-3L
14	X	X									
15	X	X	NDB2T-63B15-1L	NDB2T-63C15-1L	NDB2T-63D15-1L	NDB2T-63B15-2L	NDB2T-63C15-2L	NDB2T-63D15-2L	NDB2T-63B15-3L	NDB2T-63C15-3L	NDB2T-63D15-3L
16	X	X	NDB2T-63B16-1L	NDB2T-63C16-1L	NDB2T-63D16-1L	NDB2T-63B16-2L	NDB2T-63C16-2L	NDB2T-63D16-2L	NDB2T-63B16-3L	NDB2T-63C16-3L	NDB2T-63D16-3L
20	X	X	NDB2T-63B20-1L	NDB2T-63C20-1L	NDB2T-63D20-1L	NDB2T-63B20-2L	NDB2T-63C20-2L	NDB2T-63D20-2L	NDB2T-63B20-3L	NDB2T-63C20-3L	NDB2T-63D20-3L
25	X	X	NDB2T-63B25-1L	NDB2T-63C25-1L	NDB2T-63D25-1L	NDB2T-63B25-2L	NDB2T-63C25-2L	NDB2T-63D25-2L	NDB2T-63B25-3L	NDB2T-63C25-3L	NDB2T-63D25-3L
30	X	X	NDB2T-63B30-1L	NDB2T-63C30-1L	NDB2T-63D30-1L	NDB2T-63B30-2L	NDB2T-63C30-2L	NDB2T-63D30-2L	NDB2T-63B30-3L	NDB2T-63C30-3L	NDB2T-63D30-3L
32	X	X	NDB2T-63B32-1L	NDB2T-63C32-1L	NDB2T-63D32-1L	NDB2T-63B32-2L	NDB2T-63C32-2L	NDB2T-63D32-2L	NDB2T-63B32-3L	NDB2T-63C32-3L	NDB2T-63D32-3L
35	X		NDB2T-63B35-1L	NDB2T-63C35-1L	NDB2T-63D35-1L	NDB2T-63B35-2L	NDB2T-63C35-2L	NDB2T-63D35-2L	NDB2T-63B35-3L	NDB2T-63C35-3L	NDB2T-63D35-3L
40	X		NDB2T-63B40-1L	NDB2T-63C40-1L	NDB2T-63D40-1L	NDB2T-63B40-2L	NDB2T-63C40-2L	NDB2T-63D40-2L	NDB2T-63B40-3L	NDB2T-63C40-3L	NDB2T-63D40-3L
45	X										
50	X		NDB2T-63B50-1L	NDB2T-63C50-1L	NDB2T-63D50-1L	NDB2T-63B50-2L	NDB2T-63C50-2L	NDB2T-63D50-2L	NDB2T-63B50-3L	NDB2T-63C50-3L	NDB2T-63D50-3L
55	X										
60	X		NDB2T-63B60-1L	NDB2T-63C60-1L	NDB2T-63D60-1L	NDB2T-63B60-2L	NDB2T-63C60-2L	NDB2T-63D60-2L	NDB2T-63B60-3L	NDB2T-63C60-3L	NDB2T-63D60-3L
63	X		NDB2T-63B63-1L	NDB2T-63C63-1L	NDB2T-63D63-1L	NDB2T-63B63-2L	NDB2T-63C63-2L	NDB2T-63D63-2L	NDB2T-63B63-3L	NDB2T-63C63-3L	NDB2T-63D63-3L
70											
80											
90											
100											
110											
125											



NADER NDB2T - TECHNICAL REFERENCE

Amps	.3, 5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480 VAC 40, 50, 60, 63 @ 120/240 VAC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	No Indicator, Center Trip Positon
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION WEIDMULLER BR SERIES BREAKER



WEIDMULLER BR SERIES - PART NUMBER REFERENCE								
Rated Current	Voltage 240	Voltage 277	C Curve 1 Pole	D Curve 1 Pole	C Curve 2 Pole	D Curve 2 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1								
0.2								
0.3								
0.5	X	X	BR1C05AC	BR1D05AC	BR2C05AC	BR2D05AC	BR3C05AC	BR3D05AC
0.75	X	X						
1	X	X	BR1C1AC	BR1D1AC	BR2C1AC	BR2D1AC	BR3C1AC	BR3D1AC
1.2	X	X						
1.5	X	X						
1.6	X	X						
2	X	X	BR1C2AC	BR1D2AC	BR2C2AC	BR2D2AC	BR3C2AC	BR3D2AC
2.5	X	X						
3	X	X	BR1C3AC	BR1D3AC	BR2C3AC	BR2D3AC	BR3C3AC	BR3D3AC
3.5	X	X						
4	X	X						
5	X	X	BR1C5AC	BR1D5AC	BR2C5AC	BR2D5AC	BR3C5AC	BR3D5AC
6	X	X						
7	X	X						
8	X	X						
9	X	X						
10	X	X	BR1C10AC	BR1D10AC	BR2C10AC	BR2D10AC	BR3C10AC	BR3D10AC
12	X	X						
13	X	X						
14	X	X						
15	X	X	BR1C15AC	BR1D15AC	BR2C15AC	BR2D15AC	BR3C15AC	BR3D15AC
16	X	X						
20	X	X	BR1C20AC	BR1D20AC	BR2C20AC	BR2D20AC	BR3C20AC	BR3D20AC
25	X	X	BR1C25AC	BR1D25AC	BR2C25AC	BR2D25AC	BR3C25AC	BR3D25AC
30	X	X	BR1C30AC	BR1D30AC	BR2C30AC	BR2D30AC	BR3C30AC	BR3D30AC
32	X							
35	X							
40	X		BR1C40AC	BR1C40AC	BR1C40AC	BR2C40AC	BR3C40AC	BR3C40AC
45	X							
50	X		BR1C50AC	BR1C50AC	BR1C50AC	BR2C50AC	BR3C50AC	BR3C50AC
55	X							
60	X		BR1C60AC	BR1C60AC	BR1C60AC	BR2C60AC	BR3C60AC	BR3C60AC
63								
70								
80								
90								
100								
110								
125								



WEIDMULLER BR - TECHNICAL REFERENCE	
Amps	.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 @ 120/240/277/480 VAC 40, 50, 60 @ 120/240 VAC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	Yes
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	No
Neutral Pole	No
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	Yes
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	No
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C

MCA FABRICATION WEG UMBW SERIES BREAKER



WEG UMBW SERIES - PART NUMBER REFERENCE											
Rated Current	Voltage 240	Voltage 277	B Curve 1 Pole	C Curve 1 Pole	D Curve 1 Pole	B Curve 2 Pole	C Curve 2 Pole	D Curve 2 Pole	B Curve 3 Pole	C Curve 3 Pole	D Curve 3 Pole
0.1											
0.2											
0.3											
0.5											
0.75											
1	X	X	UMBW-4B1-1	UMBW-4C1-1	UMBW-4D1-1	UMBW-4B2-1	UMBW-4C2-1	UMBW-4D2-1	UMBW-4B3-1	UMBW-4C3-1	UMBW-4D3-1
1.2	X	X	UMBW-4B1-1.2	UMBW-4C1-1.2	UMBW-4D1-1.2	UMBW-4B2-1.2	UMBW-4C2-1.2	UMBW-4D2-1.2	UMBW-4B3-1.2	UMBW-4C3-1.2	UMBW-4D3-1.2
1.5	X	X	UMBW-4B1-1.5	UMBW-4C1-1.5	UMBW-4D1-1.5	UMBW-4B2-1.5	UMBW-4C2-1.5	UMBW-4D2-1.5	UMBW-4B3-1.5	UMBW-4C3-1.5	UMBW-4D3-1.5
1.6	X	X	UMBW-4B1-1.6	UMBW-4C1-1.6	UMBW-4D1-1.6	UMBW-4B2-1.6	UMBW-4C2-1.6	UMBW-4D2-1.6	UMBW-4B3-1.6	UMBW-4C3-1.6	UMBW-4D3-1.6
2	X	X	UMBW-4B1-2	UMBW-4C1-2	UMBW-4D1-2	UMBW-4B2-2	UMBW-4C2-2	UMBW-4D2-2	UMBW-4B3-2	UMBW-4C3-2	UMBW-4D3-2
2.5	X	X									
3	X	X	UMBW-4B1-3	UMBW-4C1-3	UMBW-4D1-3	UMBW-4B2-3	UMBW-4C2-3	UMBW-4D2-3	UMBW-4B3-3	UMBW-4C3-3	UMBW-4D3-3
3.5	X	X									
4	X	X	UMBW-4B1-4	UMBW-4C1-4	UMBW-4D1-4	UMBW-4B2-4	UMBW-4C2-4	UMBW-4D2-4	UMBW-4B3-4	UMBW-4C3-4	UMBW-4D3-4
5	X	X	UMBW-4B1-5	UMBW-4C1-5	UMBW-4D1-5	UMBW-4B2-5	UMBW-4C2-5	UMBW-4D2-5	UMBW-4B3-5	UMBW-4C3-5	UMBW-4D3-5
6	X	X	UMBW-4B1-6	UMBW-4C1-6	UMBW-4D1-6	UMBW-4B2-6	UMBW-4C2-6	UMBW-4D2-6	UMBW-4B3-6	UMBW-4C3-6	UMBW-4D3-6
7	X	X	UMBW-4B1-7	UMBW-4C1-7	UMBW-4D1-7	UMBW-4B2-7	UMBW-4C2-7	UMBW-4D2-7	UMBW-4B3-7	UMBW-4C3-7	UMBW-4D3-7
8	X	X	UMBW-4B1-8	UMBW-4C1-8	UMBW-4D1-8	UMBW-4B2-8	UMBW-4C2-8	UMBW-4D2-8	UMBW-4B3-8	UMBW-4C3-8	UMBW-4D3-8
9	X	X									
10	X	X	UMBW-4B1-10	UMBW-4C1-10	UMBW-4D1-10	UMBW-4B2-10	UMBW-4C2-10	UMBW-4D2-10	UMBW-4B3-10	UMBW-4C3-10	UMBW-4D3-10
12	X	X	UMBW-4B1-12	UMBW-4C1-12	UMBW-4D1-12	UMBW-4B2-12	UMBW-4C2-12	UMBW-4D2-12	UMBW-4B3-12	UMBW-4C3-12	UMBW-4D3-12
13	X	X	UMBW-4B1-13	UMBW-4C1-13	UMBW-4D1-13	UMBW-4B2-13	UMBW-4C2-13	UMBW-4D2-13	UMBW-4B3-13	UMBW-4C3-13	UMBW-4D3-13
14	X	X									
15	X	X	UMBW-4B1-15	UMBW-4C1-15	UMBW-4D1-15	UMBW-4B2-15	UMBW-4C2-15	UMBW-4D2-15	UMBW-4B3-15	UMBW-4C3-15	UMBW-4D3-15
16	X	X	UMBW-4B1-16	UMBW-4C1-16	UMBW-4D1-16	UMBW-4B2-16	UMBW-4C2-16	UMBW-4D2-16	UMBW-4B3-16	UMBW-4C3-16	UMBW-4D3-16
20	X	X	UMBW-4B1-20	UMBW-4C1-20	UMBW-4D1-20	UMBW-4B2-20	UMBW-4C2-20	UMBW-4D2-20	UMBW-4B3-20	UMBW-4C3-20	UMBW-4D3-20
25	X	X	UMBW-4B1-25	UMBW-4C1-25	UMBW-4D1-25	UMBW-4B2-25	UMBW-4C2-25	UMBW-4D2-25	UMBW-4B3-25	UMBW-4C3-25	UMBW-4D3-25
30	X	X	UMBW-4B1-30	UMBW-4C1-30	UMBW-4D1-30	UMBW-4B2-30	UMBW-4C2-30	UMBW-4D2-30	UMBW-4B3-30	UMBW-4C3-30	UMBW-4D3-30
32	X	X	UMBW-4B1-32	UMBW-4C1-32	UMBW-4D1-32	UMBW-4B2-32	UMBW-4C2-32	UMBW-4D2-32	UMBW-4B3-32	UMBW-4C3-32	UMBW-4D3-32
35	X		UMBW-4B1-35	UMBW-4C1-35	UMBW-4D1-35	UMBW-4B2-35	UMBW-4C2-35	UMBW-4D2-35	UMBW-4B3-35	UMBW-4C3-35	UMBW-4D3-35
40	X		UMBW-4B1-40	UMBW-4C1-40	UMBW-4D1-40	UMBW-4B2-40	UMBW-4C2-40	UMBW-4D2-40	UMBW-4B3-40	UMBW-4C3-40	UMBW-4D3-40
45	X										
50	X		UMBW-4B1-50	UMBW-4C1-50	UMBW-4D1-50	UMBW-4B2-50	UMBW-4C2-50	UMBW-4D2-50	UMBW-4B3-50	UMBW-4C3-50	UMBW-4D3-50
55	X										
60	X		UMBW-4B1-60	UMBW-4C1-60	UMBW-4D1-60	UMBW-4B2-60	UMBW-4C2-60	UMBW-4D2-60	UMBW-4B3-60	UMBW-4C3-60	UMBW-4D3-60
63	X		UMBW-4B1-63	UMBW-4C1-63	UMBW-4D1-63	UMBW-4B2-63	UMBW-4C2-63	UMBW-4D2-63	UMBW-4B3-63	UMBW-4C3-63	UMBW-4D3-63
70											
80											
90											
100											
110											
125											



WEG UMBW - TECHNICAL REFERENCE

Amps	.3, 5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32 @ 120/240/277/480 VAC 40, 50, 60, 63 @ 120/240 VAC
Voltage	120/240/277/480 VAC Wye
Short Circuit	10kA
Poles	1,2,3
Curves	C, D
Position Indicator	No Indicator, Center Trip Positon
Auxiliary Contact	Yes
Shunt Trip	Yes
Bell Alarm	Yes
Undervoltage	Yes
Neutral Pole	Yes
Comb Bus Bar	Yes
Mechanical Life	10K Operations
Current Limiting	Yes
IEC	No
Rotary Handle	No
Lockout Tagout	Yes
Ring Tongue	Yes
Width Dimensions	17.5mm
Wire Size	14-3 AWG
Tightening Torque	2.0 Nm
Certifications	UL489, CE
Calibration Temperature	40 deg C
Operating Temperature	-25 to +55 deg C