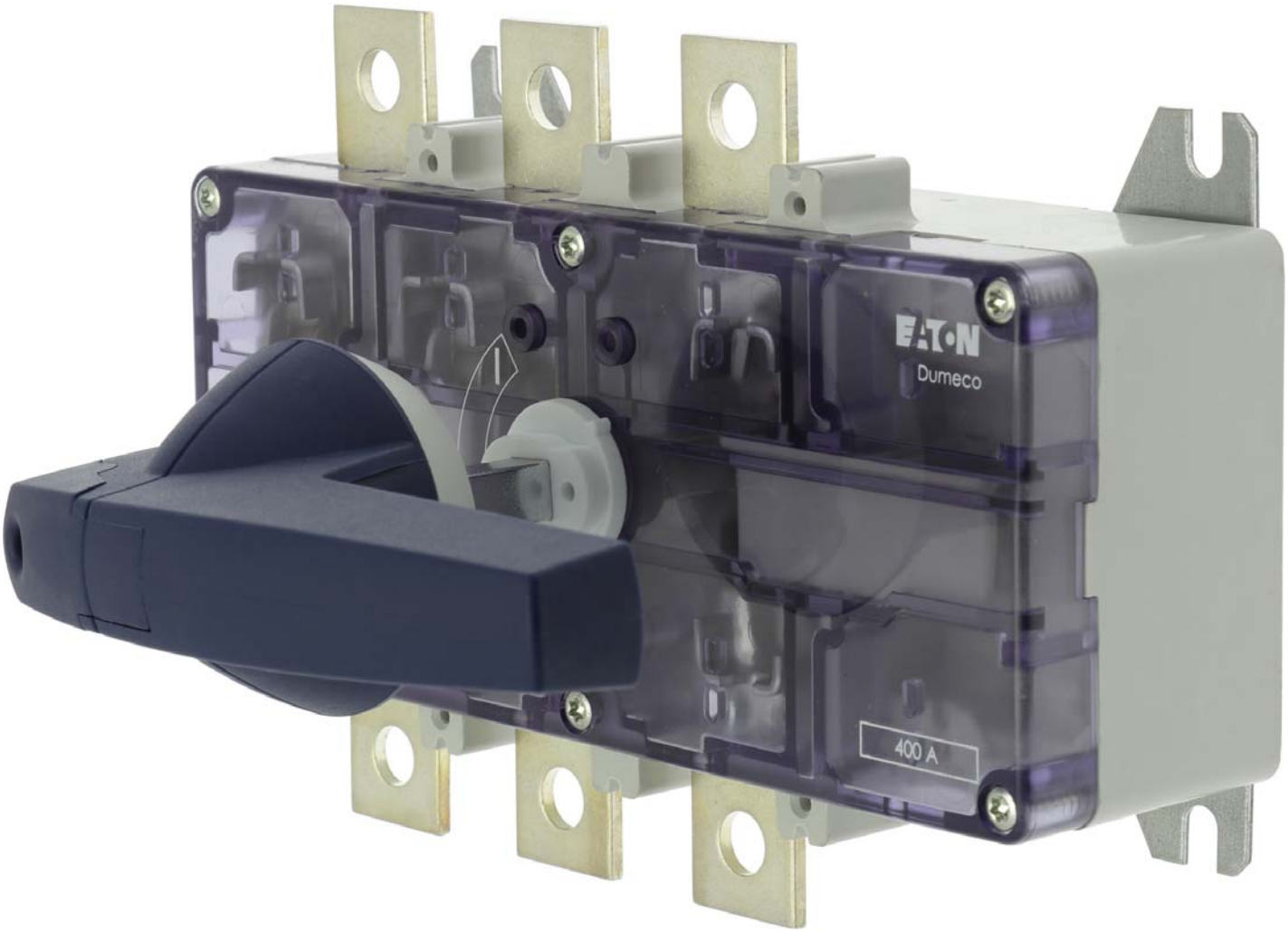
Industrial switch-disconnectors

Dumeco switch-disconnector ranges

QSA, Pasco and CCP2 fused switch-disconnectors



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Eaton's high performance, high quality, robust Switch-disconnectors are the perfect solution for industrial switchboards and panels.

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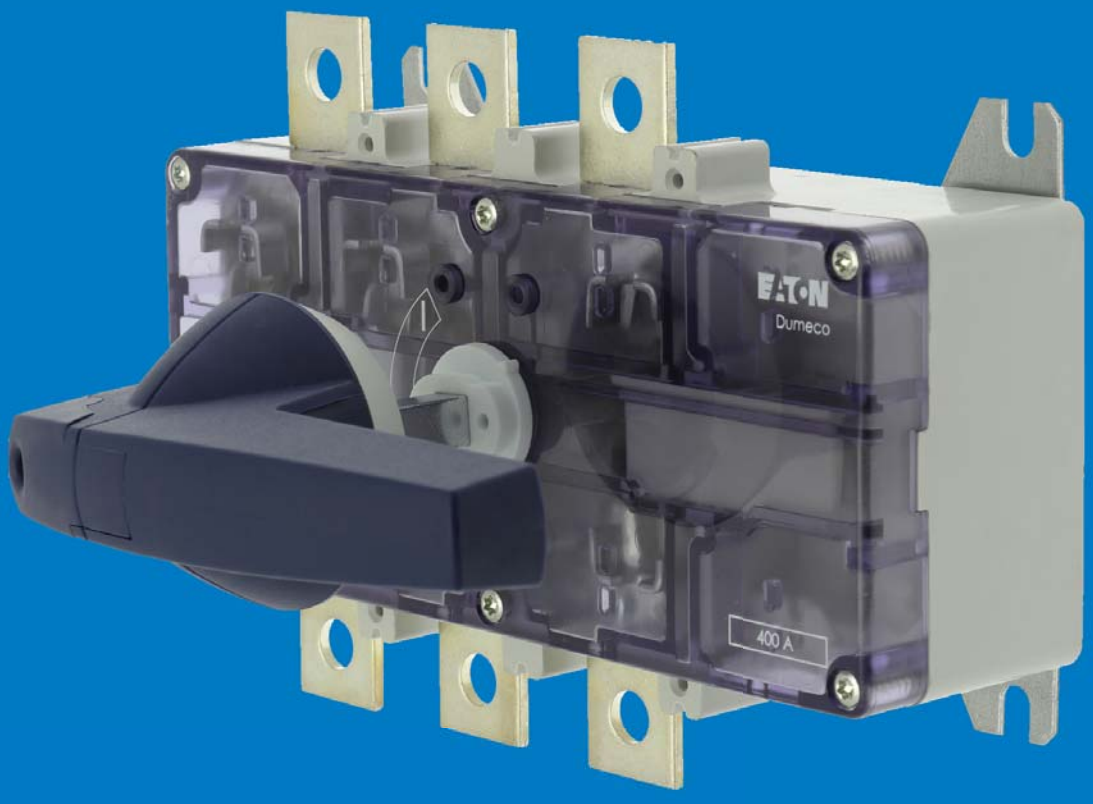


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DMV Dumeco switch-disconnectors, 160 A to 3150 A, 690 V a.c.

1



Description

The DMV Dumeco switch-disconnectors have excellent short-circuit making capacities thanks to their parallel knife contacts with double break per phase. They provide unbeatable safety protection for equipment and personnel involved in their operation and maintenance.

Standards/Approvals

- IEC 60947-3
- EAC
- KEMA-KEUR
- Lloyd's Register
- CCC up to 1250 A

Technical data

- Voltage: 690 V ac.
- Current: 160 A to 3150 A
- 3-pole, 3-pole + solid neutral and 4-pole
- Direct handle operation or with door mounted handle

Features

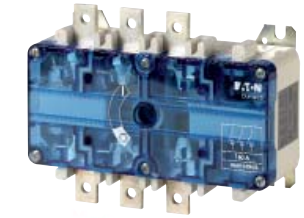
- Parallel knife-contacts with double-break per phase
- Visible contact separation
- Forced contact breaking within 90 degrees
- Totally enclosed compact housing, made of non-tracking, heat resistant insulations material

DMV Dumeco switch-disconnectors, 160 A to 3150 A, 690 V a.c.

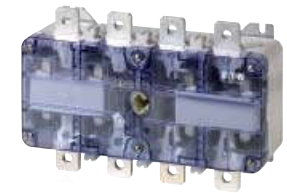
DMV range overview

	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A	2000 A	2500 A	3150 A
Switch-disconnectors without operating shaft and handle	✓	✓	✓	✓	✓	✓	✓	✓		
Switch-disconnectors with operating shaft and C-Type handles		✓	✓	✓	✓					
Switch-disconnectors with 400 mm shaft and red/ yellow or grey handle		✓	✓							
Switch-disconnectors with 300 mm shaft and K-Line handle									✓	✓

DMV without operating shaft and handle



1814186



1814446



1814597

Current rating	Number of poles	Part number	Article number	Pack qty	Connection
160 A	3P	DMV-160N/3	1814178	1	
160 A	3P	DMV-160N/3+TC	1814175	1	With box terminal clamps
160 A	3P	DMVS-160N/3	1814186	1	With larger bolt connection terminals
160 A	3P + solid neutral	DMV-160N/1	1814177	1	
160 A	3P + solid neutral	DMV-160N/1+TC	1814174	1	With box terminal clamps
160 A	3P + solid neutral	DMVS-160N/1	1814187	1	With larger bolt connection terminals
160 A	4P	DMV-160N/4	1814179	1	
160 A	4P	DMV-160N/4+TC	1814176	1	With box terminal clamps
160 A	4P	DMVS-160N/4	1814188	1	With larger bolt connection terminals
250 A	3P	DMV-250N/3	1814408	1	
250 A	3P + solid neutral	DMV-250N/1	1814409	1	
250 A	4P	DMV-250N/4	1814410	1	
400 A	3P	DMV-400N/3	1814411	1	
400 A	3P + solid neutral	DMV-400N/1	1814412	1	
400 A	4P	DMV-400N/4	1814413	1	
630 A	3P	DMV-630N/3	1814442	1	
630 A	3P + solid neutral	DMV-630N/1	1814443	1	
630 A	4P	DMM-630N/4	1814444	1	
1000 A	3P	DMV-100N/3	1814445	1	
1000 A	3P + solid neutral	DMV-1000N/1	1814446	1	
1000 A	4P	DMV-1000N/4	1814447	1	
1250 A	3P	DMV-1250N/3	1814590	1	
1250 A	3P + solid neutral	DMV-1250N/1	1814591	1	
1250 A	4P	DMV-1250N/4	1814592	1	
1600 A	3P	DMV-1600N/3	1814595	1	
1600 A	3P + solid neutral	DMV-1600N/1	1814596	1	
1600 A	4P	DMV-1600N/4	1814597	1	
2000 A	3P	DMV-2000N/3	1814065	1	

DMV Dumeco switch-disconnectors, 160 A to 3150 A, 690 V a.c.

1

DMV with operating shaft and knob for cover mounting, without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range



1814422

Current rating	Number of poles	Part number	Article number	Pack qty
250 A	3P	DMV-250N/3+SH	1814420	1
250 A	3P + solid neutral	DMV-250N/1+SH	1814421	1
250 A	4P	DMV-250N/4+SH	1814422	1
400 A	3P	DMV-400N/3+SH	1814423	1
400 A	3P + solid neutral	DMV-400N/1+SH	1814424	1
400 A	4P	DMV-400N/4+SH	1814425	1
630 A	3P	DMV-630N/3+SH	1814448	1
630 A	3P + solid neutral	DMV-630N/1+SH	1814449	1
630 A	4P	DMV-630N/4+SH	1814450	
1000 A	3P	DMV-1000N/3+SH	1814451	1
1000 A	3P + solid neutral	DMV-1000N/1+SH	1814452	1
1000 A	4P	DMV-1000N/4+SH	1814453	1

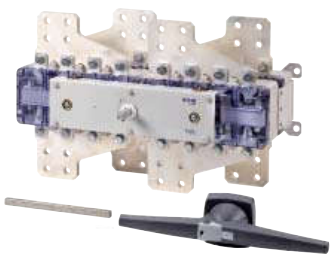
DMV with padlockable rotary handle, with door interlock function and 400 mm metal shaft



6094966

Current rating	Number of poles	Handle with padlock	Shaft length	Part number	Article number	Pack qty
250 A	3P	Red/Yellow	400 mm	DMV-250/3/M4/P-R	6094966	1
250 A	3P	Grey	400 mm	DMV-250/3/M4/P-G	6099271	1
250 A	4P	Red/Yellow	400 mm	DMV-250/4/M4/P-R	6094970	1
250 A	4P	Grey	400 mm	DMV-250/4/M4/P-G	6099273	1
400 A	3P	Red/Yellow	400 mm	DMV-400/3/M4/P-R	6094967	1
400 A	3P	Grey	400 mm	DMV-400/3/M4/P-G	6099272	1
400 A	4P	Red/Yellow	400 mm	DMV-400/4/M4/P-R	6094971	1
400 A	4P	Grey	400 mm	DMV-400/4/M4/P-G	6099274	1

DMV with padlockable rotary handle, with door interlock function and 300 mm metal shaft, supplied with two 1NO + 1NC auxiliaries



6084846

Current rating	Number of poles	Handle with padlock	Shaft length	Part number	Article number	Pack qty
2500 A	3P	Grey	300 mm	DMV-2500/3/M6/2HI11/K6-PG	6093244	1
2500 A	3P + neutral	Grey	300 mm	DMV-2500/3N/M6/2HI11/K6-PG	6093243	1
2500 A	4P	Grey	300 mm	DMV-2500/4/M6/2HI11/K6-PG	6093242	1
3150 A	3P	Grey	300 mm	DMV-3150/3/M6/2HI11/K6-PG	6084848	1
3150 A	3P + neutral	Grey	300 mm	DMV-3150/3N/M6/2HI11/K6-PG	6084847	1
3150 A	4P	Grey	300 mm	DMV-3150/4/M6/2HI11/K6-PG	6084846	1

Handles and shafts for DMV Dumeco (Handles and shaft are to be ordered separately)

Handles mounting types overview

DMV	K Types handles	Shaft square mm □	A Type handles			C Type handles		D/P Type handles			D/C Type handles		
			Blue	Red	Grey	Blue	Red	Blue	Red/ Yellow	Grey	Blue	Red/ Yellow	Grey
DMV 160N	K2S	6 x 6	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
DMVS 160N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 250N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 400N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 630N	K5	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 1000N	K5	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 1250N	K6	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 1600N	K6	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 2000N	K6	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 2500	K6	14 x 14								✓			
DMV 3150	K6	14 x 14								✓			

A Type: Handle mounted directly on switch

C Type: Handle without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

D/C Type: Handle with cylinder lock for mounting on hinged door, supplied with two keys, with interlock function

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch, suitable for DMV 160N



K2S A handle
1818003



K3 A handle
1818202



K5 A handle
1818012



K6 A handle
1818013



Shafts

DMV	A Type handles: Handle colours Blue	Red	Metal shafts: Shaft mm□	Shaft length 116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	Pack qty
DMV 160N	K2SAB 1818003	K2SAR 1818004	6 x 6	4K6116MMK1/2S 1314996	4K6132MMK1/2S 1314751	4K6148MMK1/2S 1314752	4K6172MMK1/2S 1314691	4K6270MMK1/2S 1314692	4K6400MMK1/2S 1314693	1

Mounted directly on switch, suitable for DMVS 160N up to DMV 2000N

DMV	A Type handles: Handle colours Blue	Red	Grey	Metal shafts: Shaft mm□	Shaft length 135 mm	200 mm	245 mm	400 mm	600 mm	Pack qty
DMVS 160N DMV 250N DMV 400N	K3AB 1818110	K3AR 1818111	K3AG 1818202	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243		1
DMV 630N DMV 1000N	K5AB 1818011	K5AR 1818012		14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	4K14K5H600 6090659	1
DMV 1250N DMV 1600N DMV 2000N	K6AB 1818013	K6AR 1818014		14 x 14		4K14K6H200 1050248		4K14K6H400 1050250		1

Handles and shafts for DMV Dumeco (Handles and shaft are to be ordered separately)

1

C Type handles

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure rangesuitable for DMV 160N



K2S C handle
1818017



K3 C handle
1818112



K5 C handle
1818025



K6 C handle
1818028



Shafts

C Type handles **Metal shafts**

DMV	Handle colours: Blue	Handle colours: Red	Shaft mm□	Shaft length: 116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	Pack qty
DMV 160N	K2SCB 1818017	K2SCR 1818018	6 x 6	4K6116MMK1/2S 1314996	4K6132MMK1/2S 1314751	4K6148MMK1/2S 1314752	4K6172MMK1/2S 1314691	4K6270MMK1/2S 1314692	4K6400MMK1/2S 1314693	1

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range, suitable for DMVS 160N up to DMV 2000N

C Type handles **Metal shafts**

DMV	Handle colours: Blue	Handle colours: Red/ yellow	Shaft mm□	Shaft length: 135 mm	200 mm	245 mm	400 mm	600 mm	Pack qty
DMVS 160N	K3CB 1818068	K3CR 1818112	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243		1
DMV 250N									
DMV 400N									
DMV 630N	K5CB 1818025	K5CR 1818026	14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	4K14K5H600 6090659	1
DMV 1000N									
DMV 1250N	K6CB 1818027	K6CR 1818028	14 x 14		4K14K6H200 1050248		4K14K6H400 1050250		1
DMV 1600N									
DMV 2000N									

D/P Type handles

Padlockable for mounting on hinged door, with interlock function, suitable for DMV 160N



K2S D/P handle
1818032



K3 D/[P handle
1818096



K5 D/P handle
1818056



K6 D/P handle
1818064



Shafts

D/P Type handles **Metal shafts**

DMV	Handle Type: Blue	Handle Type: Red	Handle Type: Grey	Shaft mm□	Shaft length: 116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	Pack qty
DMV 160N	K2SDB/P 1818032	K2SDR/P 1818033	K2SDG/P 1818034	6 x 6	4K6116MMK1/2S 1314996	4K6132MMK1/2S 1314751	4K6148MMK1/2S 1314752	4K6172MMK1/2S 1314691	4K6270MMK1/2S 1314692	4K6400MMK1/2S 1314693	1

Handles and shafts for DMV Dumeco (Handles and shaft are to be ordered separately)

D/P Type handles

Padlockable for mounting on hinged door, with interlock function, suitable for DMVS 160N up to DMV 2000N

	D/P Type handles			Metal shafts						
	Handle colours				Length of shaft					
DMV	Blue	Red	Grey	Shaft mm□	135 mm	200 mm	245 mm	400 mm	600 mm	Pack qty
DMVS 160N DMV 250N DMV 400N	K3DB/P 1818113	K3DR/P 1818096	K3DG/P 1818069	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243		1
DMV 630N DMV 1000N	K5DB/P 1818056	K5DR/P 1818057	K5DG/P 1818058	14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	4K14K5H600 6090659	1
DMV 1250N DMV 1600N DMV 2000N	KO6DB/P 1818078	K6DR/P 1818063	K6DG/P 1818064	14 x 14		4K14K6H200 1050248		4K14K6H400 1050250		1

D/C Type handles

With cylinder lock for mounting on hinged door, supplied with two keys, with interlock function, suitable for DMV 160N



K2S D/C handle
1818038



K3 D/C handle
1818097



K5 D/C handle
1818059



K6 D/C handle
1818067



Shafts

	D/C Type handles			Metal shafts						
	Handle colours				Length of shafts					
DMV	Blue	Red	Grey	Shaft mm□	116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	Pack qty
DMV 160N	K2SDB/C 1818038	K2SDR/C 1818039	K2SDR/C 1818040	6 x 6	4K6116MMK1/2S 1314996	4K6132MMK1/2S 1314751	4K6148MMK1/2S 1314752	4K6172MMK1/2S 1314691	4K6270MMK1/2S 1314692	4K6400MMK1/2S 1314693	1

With cylinder lock for mounting on hinged door, supplied with two keys, with interlock function, suitable for DMVS 160N up to DMV 2000N

	D/C Type handles			Metal shafts						
	Handle Type				Shaft length					
DMV	Blue	Red	Grey	Shaft mm□	135 mm	200 mm	245 mm	400 mm	600 mm	Pack qty
DMVS 160N DMV 250N DMV 400N	K3DB/C 1818114	K3DR/C 1818097	K3DG/C 1818070	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243		1
DMV 630N DMV 1000N	K5DB/C 1818059	K5DR/C 1818060	K5DG/C 1818061	14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	4K14K5H600 6090659	1
DMV 1250N DMV 1600N DMV 2000N	K6DB/C 1818065	K6DR/C 1818066	K6DG/C 1818067	14 x 14		4K14K6H200 1050248		4K14K6H400 1050250		1

Accessories for DMV Dumeco

1

Transparent terminal cover



1314230

DMV Type	Part number	Article number	Pack qty
DMV 160N	COVERDMV160	1314230	1
DMVS 160N, DMV 250N, DMV 400N	COVERDMVS160N/400N	1314735	1
DMV 630N and DMV 1000N	COVERDMV630N/1000N	1314830	1

Auxiliary switch, including fixing adaptor



1314398

DMV Type	Part number	Article number	Pack qty
DMV 160N	AUX1NO+1NCDMV160N	1314398	1
DMVS 160N, DMV 250N up to DMV 2000N	AUX1NO+1NCDDMVS160-2000	1314736	1

Spare connection kits (Connection kits are supplied with switch-disconnector as standard)



1314031

DMV Type	Bolt connection	Part number	Article number	Pack qty
DMV 160N	M6 x 20	KITM6X20	1314031	1
DMVS 160N, DMV 250N	M8 x 20	KITM8X20	1314927	1
DMV 400N	M10 x 20	KITM10X20	1314915	1
DMV 630N	M10 x 30	KITM10X30	1314648	1
DMV 1000N	M12 x 35	KITM12X35	1314857	1

Shaft extension kit for extending shaft length



1050256

DMV Type	Part number 100 mm	Article number 100 mm	Part number 200 mm	Article number 200 mm	Pack qty
DMV 1250 N	K6100VERL	1050256	K6200VERL	1050257	1
DMV 1600N					1

Technical data for DMV Dumeco

		DMV 160N	DMVS 160N	DMV 250N	DMV 400N	DMV 630N
Conventional free air thermal current	I_{th}	160 A	160 A	250 A	400 A	630 A
Conventional enclosed thermal current	I_{the}	160 A	160 A	250 A	400 A	630 A
Rated uniterrupted current	I_u	160 A	160 A	250 A	400 A	630 A
Rated operational voltage	U_e	690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.
Rated insulation voltage	U_i	1000 V	1000 V	1000 V	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	8 kV	8 kV	8 kV	8 kV	12 kV
Rated frequency		50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50- 60 Hz
Ambient temperature						
Operation temperature		-25°C...55°C	-25°C...55°C	-25°C...55°C	-25°C...55°C	-25°C...55°C
Storage temperature		-30°C...80°C	-30°C...80°C	-30°C...80°C	-30°C...80°C	-30°C...80°C
Rated operational current						
AC-21A						
At U_e = 415 V AC-21A	I_e	160 A	160 A	250 A	400 A	630 A
At U_e = 500 V AC-21A	I_e	160 A	160 A	250 A	400 A	630 A
At U_e = 690 V AC-21A	I_e	125 A	160 A	250 A	400 A	630 A
AC-22A						
At U_e = 415 V AC-22A	I_e	160 A	160 A	250 A	400 A	630 A
At U_e = 500 V AC-22A	I_e	160 A	160 A	250 A	400 A	630 A
At U_e = 690 V AC-22A	I_e	125 A	160 A	250 A	315 A	630 A
AC-23A						
At U_e = 415 V AC-23A	I_e	154 A	160 A	250 A	333 A	630 A
At U_e = 500 V AC-23A	I_e	106 A	156 A	220 A	254 A	575 A
At U_e = 690 V AC-23A	I_e	-	140 A	140 A	140 A	437 A
Rated operational power						
At U_e = 415 V AC-23A	P	90 kW	90 kW	147 kW	180 kW	375 kW
At U_e = 500 V AC-23A	P	75 kW	110 kW	160 kW	180 kW	425 kW
At U_e = 690 V AC-23A	P	-	132 kW	132 kW	132 kW	425 kW
Rated breaking capacity						
At U_e = 415 V		1232 A	1280 A	2000 A	2664 A	5040 A
At U_e = 500 V		848 A	1248 A	1760 A	2032 A	4600 A
At U_n = 690 V			1120 A	1120 A	1120 A	3496 A
Rated short-time withstand current	I_{cw}	8 kA - 0.2 s	12 kA - 0.3 s	12 kA - 0.3 s	12 kA - 0.3 s	36 kA - 0.3 s
Short-circuit rating						
Fuse link max		160 /100	500/250	500/250	500/250	1000/630
Rated conditional short-circuit current	I_q	I_n = 160 50 kA	I_n = 500 50 kA	I_n = 500 50 kA	I_n = 500 50 kA	I_n = 1000 50 kA
	I_q	I_n = 100 100 kA	I_n = 250 100 kA	I_n = 250 100 kA	I_n = 250 100 kA	I_n = 630 100 kA
Breaking current		I_n = 160 50 kA	I_n = 500 40 kA	I_n = 500 40 kA	I_n = 500 40 kA	I_n = 1000 70 kA
		I_n = 100 14.5 kA	I_n = 250 33 kA	I_n = 250 33 kA	I_n = 250 33 kA	I_n = 630 65 kA
Max let-through energy		I_n = 160 600 kA^{2}s	I_n = 500 1700 kA^{2}s	I_n = 500 1700 kA^{2}s	I_n = 500 1700 kA^{2}s	I_n = 1000 4200 kA^{2}s
		In = 100 67 kA^{2}s	I_n = 250 380 kA^{2}s	I_n = 250 380 kA^{2}s	I_n = 250 380 kA^{2}s	I_n = 630 3200 kA^{2}s
Heat dissipation per pole	p_{vid}	3.9 W	2.3 W	3.75 W	9 W	17.5 W
Durability - maximum cycles (on+off)		10000	10000	10000	10000	5000
Pollution degree		III/3	III/3	III/3	III/3	III/3
Protection class		IP20 without terminal cover IP20 with terminal cover				
Terminal capacities						
Flat connection with busbars		75 mm^2	120 mm^2	120 mm^2	240 mm^2	400 mm^2
Terminal screw		M6 x 16	M8 x 20	M8 x 20	M10 x 20	M10 x 30
Tightening torque for terminal screw		-	14 Nm	14 Nm	28 Nm	28 Nm
Standards		IEC 60947-1 and -3				
Certification		CCC, KEMA-KEUR, Lloyd's Register				

Technical data for DMV Dumeco

		DMV 1000N	DMV 1250N	DMV 1600N	DMV 2000N
Conventional free air thermal current	I_{th}	1000 A	1250 A	1600 A	2000 A
Conventional enclosed thermal current	I_{the}	1000 A	1250 A	1600 A	2000 A
Rated uniterrupted current	I_u	1000 A	1250 A	1600 A	2000 A
Rated operational voltage	U_e	690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.
Rated insulation voltage	U_i	1000 V	1000 V	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	12 kV	12 kV	12 kV	12 kV
Rated frequency		50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Ambient temperature					
Operation temperature		-25°C...55°C	-25°C...55°C	-25°C...55°C	-25°C...55°C
Storage temperature		-30°C...80°C	-30°C...80°C	-30°C...80°C	-30°C...80°C
Rated operational current					
AC-21A					
At U_e = 415 V AC-21A	I_e	1000 A	1250 A	1600 A	2000 A
At U_e = 500 V AC-21A	I_e	1000 A	1250 A	1600 A	2000 A
At U_e = 690 V AC-21A	I_e	1000 A	1250 A	1600 A	2000 A
AC-22A					
At U_e = 415 V AC-22A	I_e	1000 A	1250 A	1600 A	2000 A
At U_e = 500 V AC-22A	I_e	1000 A	1250 A	1600 A	2000 A
At U_e = 690 V AC-22A	I_e	1000 A	1250 A	1600 A	2000 A
AC-23A					
At U_e = 415 V AC-23A	I_e	759 A	1250 A	1250 A	1250 A
At U_e = 500 V AC-23A	I_e	575 A	909 A	909 A	909 A
At U_e = 690 V AC-23A	I_e	437 A	630 A	630 A	630 A
Rated operational power					
At U_e = 415 V AC-23A	P	425 kW	750 kW	750 kW	750 kW
At U_e = 500 V AC-23A	P	425 kW	630 kW	630 kW	630 kW
At U_e = 690 V AC-23A	P	425 kW	630 kW	630 kW	630 kW
Rated breaking capacity					
At U_e = 415 V		6072 A	10000 A	10000 A	10000 A
At U_e = 500 V		4600 A	7272 A	7272 A	7272 A
At U_n = 690 V		3496 A	5040 A	4050 A	5040 A
Rated short-time withstand current	I_{cw}	36 kA - 0.3 s	50 kA - 1 s	50 kA - 1 s	50 kA - 1 s
Short-circuit rating					
Fuse link max		1000/630	-	-	-
Rated conditional short-circuit current	I_q	I_n = 1000 50 kA	-	-	-
	I_q	I_n = 630 100 kA	-	-	-
Breaking current		I_n = 1000 70 kA	-	-	-
		I_n = 630 65 kA	-	-	-
Max let-through energy		I_n = 1000 4200 kA^2s	-	-	-
		I_n = 630 3200 kA^2s	-	-	-
Heat dissipation per pole	p_{vid}	44.75 W	27.5 W	44.75 W	44.75 W
Durability - maximum cycles (on+off)		5000	5000	5000	5000
Pollution degree		III/3	III/3	III/3	III/3
Protection class		IP20 without terminal cover IP20 with terminal cover			
Terminal capacities					
Flat conductor connection with busbars		600 mm^2	800 mm^2	1000 mm^2	1500 mm^2
Terminal screw		M12 x 35	M16 x 50	M12 x 50 (2 x)	M12 x 50 (2 x)
Tightening torque for terminal screw		28 Nm	60 Nm	40 Nm	40 Nm
Standards		IEC 60947-1 and -3			
Certification		CCC, KEMA-KEUR, Lloyd's Register			

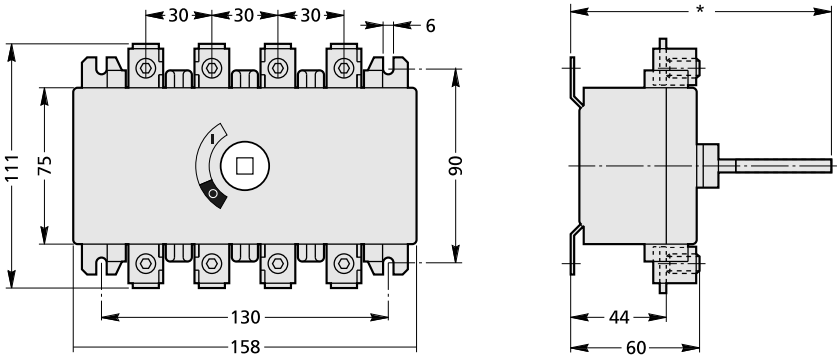
Technical data for DMV Dumeco

		DMV 2500	DMV 3150
Conventional free air thermal current	I_{th}	2500 A	3150 A
Conventional enclosed thermal current	I_{the}	2500 A	3150 A
Rated uniterrupted current	I_u	2500 A	3150 A
Rated operational voltage	U_e	690 V a.c.	690 V a.c.
Rated insulation voltage	U_i	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	12 kV	12 kV
Rated frequency		50 - 60 Hz	50 - 60 Hz
Ambient temperature			
Operation temperature		-25°C...55°C	-25°C...55°C
Storage temperature		-30°C...80°C	-30°C...80°C
Rated operational current			
AC-21A			
At U_e = 415 V AC-21A	I_e	2500 A	3150 A
At U_e = 500 V AC-21A	I_e	2500 A	3150 A
At U_e = 690 V AC-21A	I_e	2500 A	3150 A
Rated operational power			
At U_e = 415 V AC-23A	P	1400 kW	1400 kW
At U_e = 500 V AC-23A	P	-	-
At U_e = 690 V AC-23A	P	-	-
Rated breaking capacity			
At U_e = 415 V		10000 A	10000 A
At U_e = 500 V		7272 A	7272 A
At U_n = 690 V		5040 A	5040 A
Rated short-time withstand current	I_{cw}	65 kA - 1 s	65 kA - 1 s
Heat dissipation per pole	p_{vid}	68.5 W	86.2 W
Durability - maximum cycles (on+off)		5000	5000
Pollution degree		III/3	III/3
Protection class		IP20 without terminal cover IP20 with terminal cover	
Terminal capacities			
Flat conductor connection with busbars		3000 mm^2	3000 mm^2
Terminal screw		M12 x 50 (2x)	M12 x 50 (2x)
Tightening torque for terminal screw		40 Nm	40 Nm
Standards		IEC 60947-1 and -3	
Certification		CCC, KEMA-KEUR, Lloyd's Register	

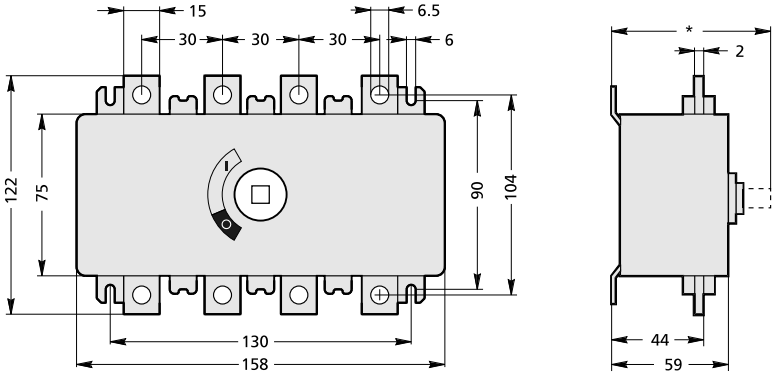
Outline drawings for DMV Dumeco (Dimensions are in mm)

1

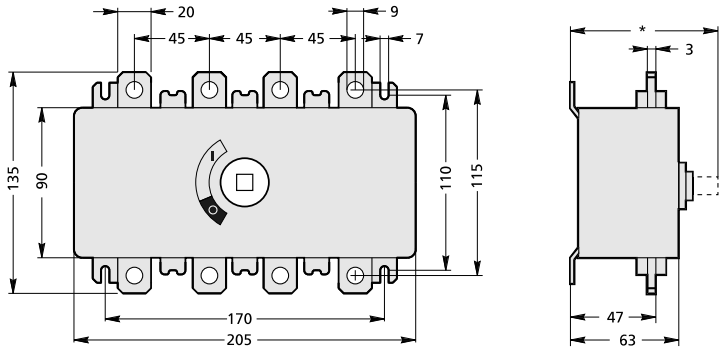
DMV 160N 3-pole and 4-pole connecting contacts with box terminal clamps



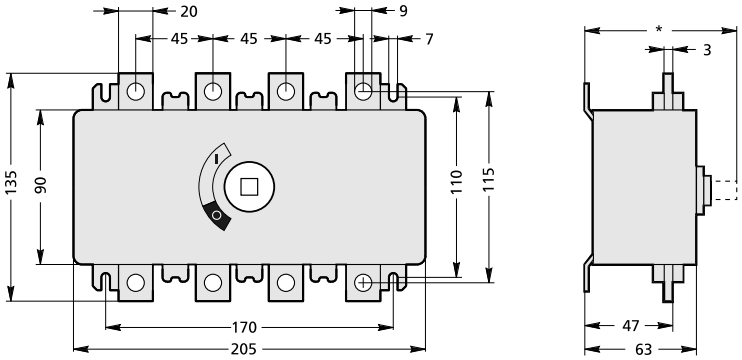
DMV 160N 3-pole and 4-pole



DMVS 160N 3-pole and 4-pole



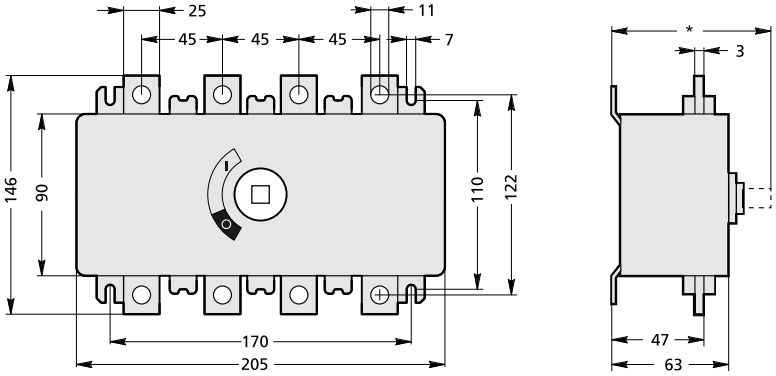
DMV 250N 3-pole and 4-pole



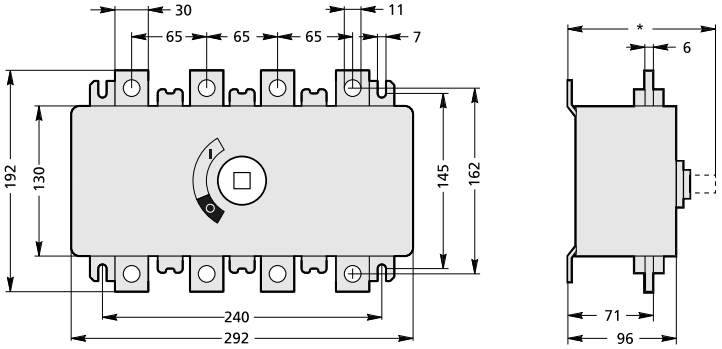
* Depending on the applied operating shaft

Outline drawings for DMV Dumeco (Dimensions are in mm)

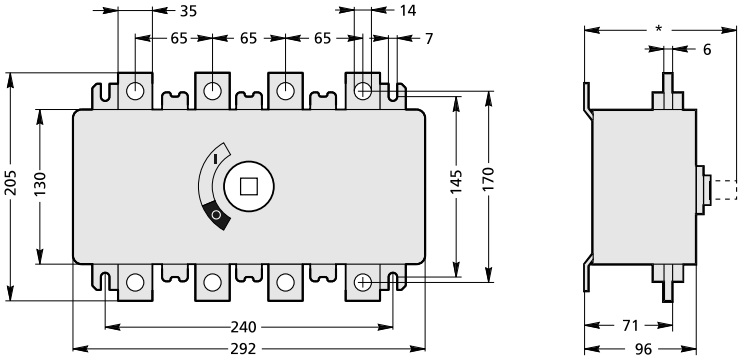
DMV 400N 3-pole and 4-pole



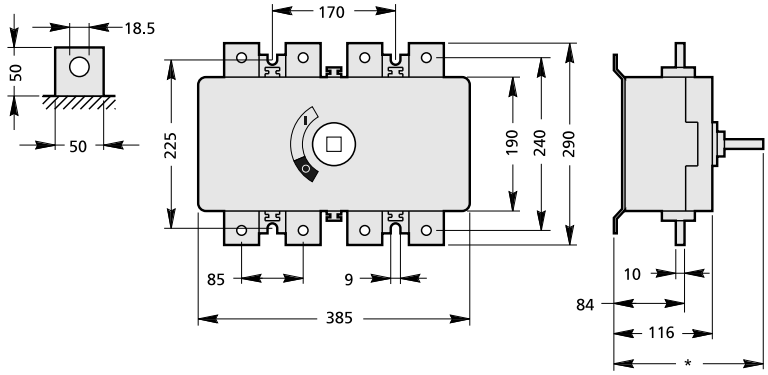
DMV 630N 3-pole and 4-pole



DMV 1000N 3-pole and 4-pole



DMV 1250N 3-pole and 4-pole

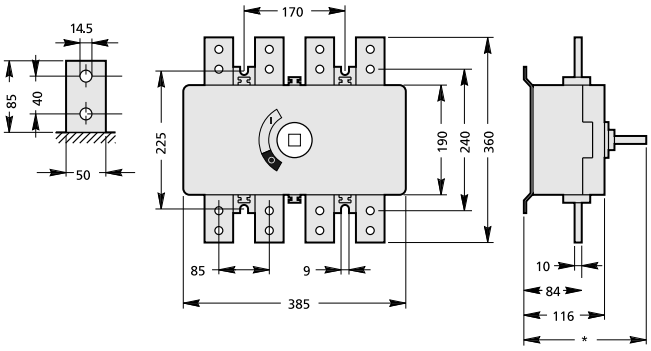


* Depending on the applied operating shaft

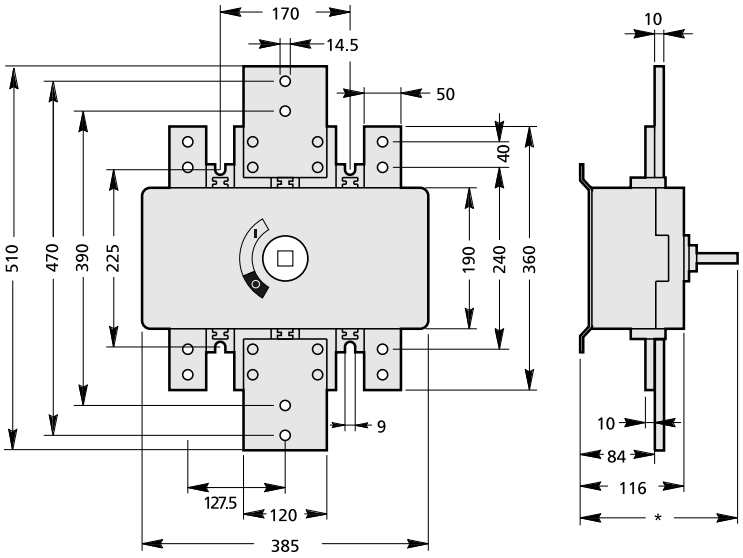
Outline drawings for DMV Dumeco (Dimensions are in mm)

1

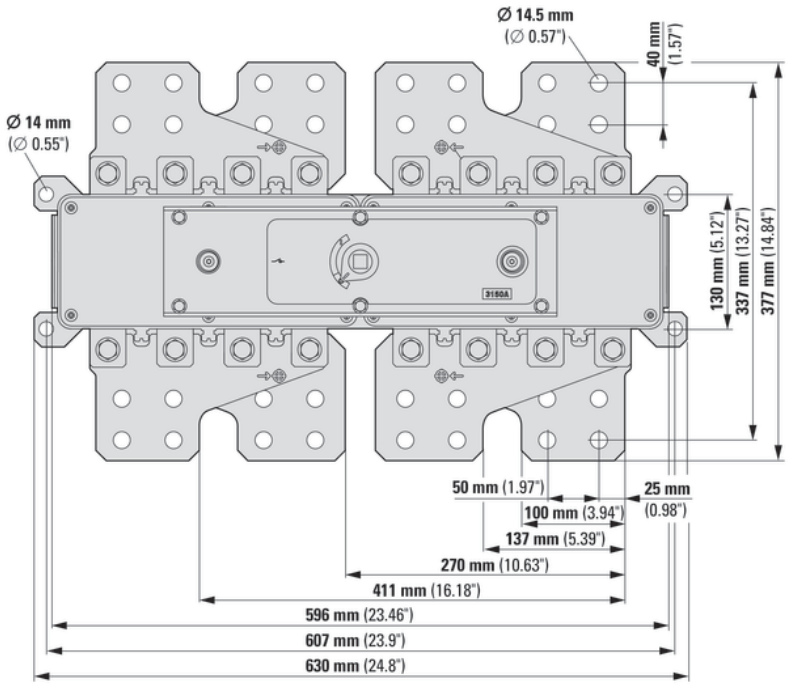
DMV 1600N 3-pole and 4-pole

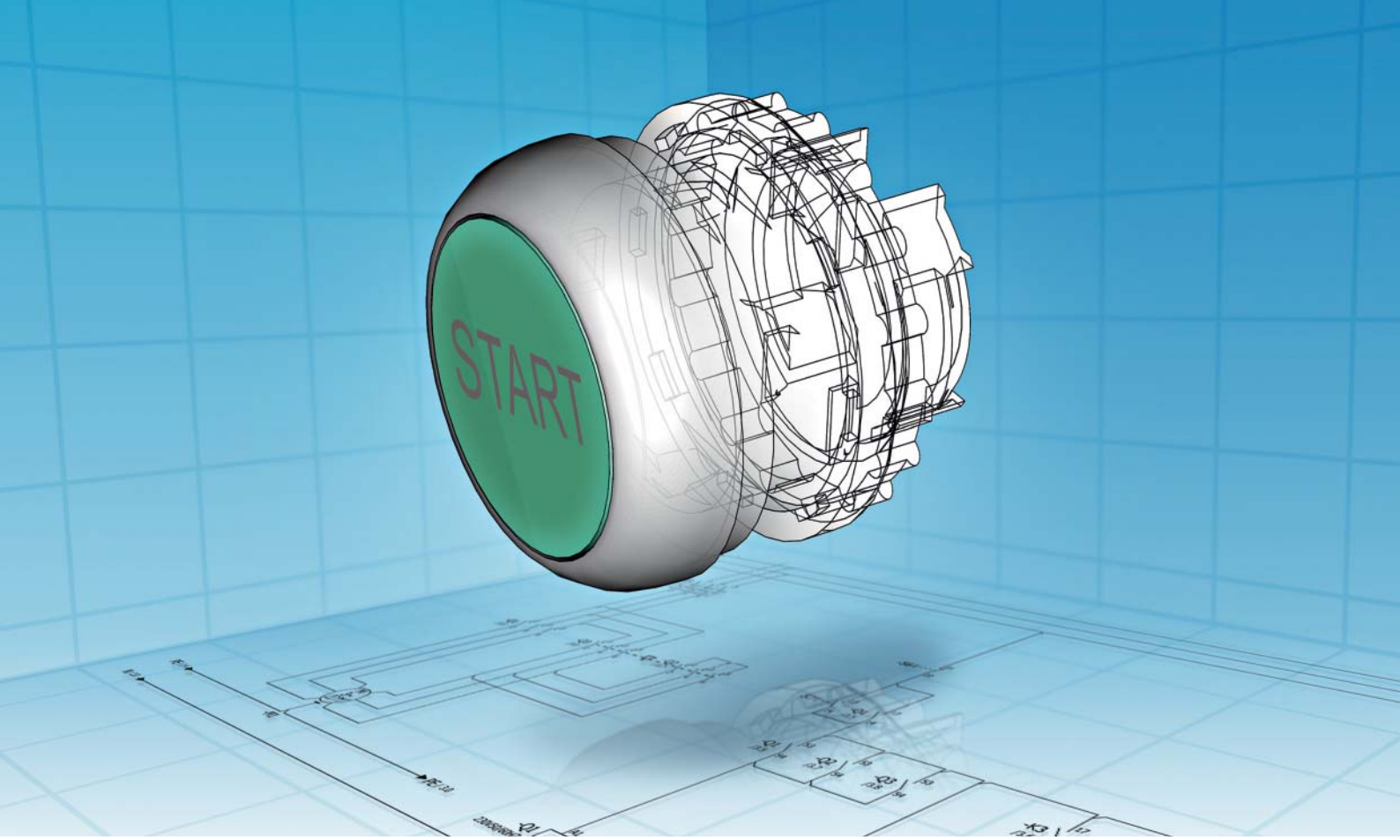


DMV 2000N 3-pole and 4-pole



DMV 2500 A and 3150 A 3-pole and 4-pole





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DMM Dumeco switch-disconnectors, 40 A to 160 A, 690 V a.c.





Description

The DMM Dumeco switch-disconnectors provide safe isolation in a wide range of low voltage applications. Thanks to their excellent making and breaking capacity under load conditions they are particularly suited for use in distribution panels and for machine controls.

Standards/Approvals

- IEC 60947-3
- EAC
- KEMA-KEUR
- Lloyd's Register

Technical data

- Voltage: 690 V ac.
- Current: 40 A to 160 A
- 3-pole + solid neutral and 4–poles
- Direct operation or with door mount knob
- Utilisation category: AC-23A

Mounting options

- DIN-Rail mounting
- 45 mm front for standard distribution board
- IP65 Enclosed for 125 A and 160 A only

Features

- 125 and 160 A DMM switch-disconnectors available as a complete package: with a 400 mm shaft and a red or grey padlockable handle
- 125 and 160 A DMM switch-disconnectors are also available in a CI-K5 enclosure

DMM Dumeco switch-disconnectors, 40 A to 160 A, 690 V a.c.

DMM range overview

	40 A	63 A	125 A	160 A
Switch-disconnectors with integrated black rotary handle	✓	✓	✓	✓
Switch-disconnectors without shaft and knob	✓	✓	✓	✓
Switch-disconnectors with operating shaft and knob for cover mounting	✓	✓	✓	
Switch-disconnectors with 400 mm shaft and red/yellow or grey paclockable handle			✓	✓
Switch-disconnectors in CI-K5 enclosure with cylinder lock handle			✓	✓
Switch-disconnectors in CI-K5 enclosure with padlock			✓	✓

DMM with integrated black rotary handle



1314161



6093346

Thermal current I_{the}	Number of poles	Part number	Article number	Pack qty
40 A	3P +solid neutral	DMM-40/1	1314056	1
40 A	4P	DMM-40/4	1314057	1
63 A	3P + solid neutral	DMM-63/1	1314161	1
63 A	4P	DMM-63/4	1314162	1
125 A	3P	DMM-125/3	6093344	1
125 A	3P + solid neutral	DMM-125/1	1314210	1
125 A	4P	DMM-125/4	1314211	1
160 A	3P	DMM-160/3	6093347	1
160 A	3P + solid neutral	DMM-160/1	6093345	1
160 A	4P	DMM-160/4	6093346	1

DMM without shaft and knob



1314158



6085418

Thermal current I_{the}	Number of poles	Part number	Article number	Pack qty
40 A	3P + solid neutral	DMM-40/1-SK	1314052	1
40 A	4P	DMM-40/4-SK	1314053	1
63 A	3P + solid neutral	DMM-63/1-SK	1314157	1
63 A	4P	DMM-63/4-SK	1314158	1
125 A	3P	DMM-125/3-SK	6083336	1
125 A	3P + solid neutral	DMM-125/1-SK	1314203	1
125 A	4P	DMM-125/4-SK	1314204	1
160 A	3P	DMM-160/3-SK	6085416	1
160 A	3P + solid neutral	DMM-160/1-SK	6085417	1
160 A	4P	DMM-160/4-SK	6085418	1

DMM Dumeco switch-disconnectors, 40 A to 160 A, 690 V a.c.

DMM with operating shaft and knob, without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range



1314207

Thermal current I_{the}	Number of poles	Height*	Part number	Article number	Pack qty
40 A	3P + solid neutral	172 mm	DMM-40/1+SK	1314054	1
40 A	4P	172 mm	DMM-40/4+SK	1314055	1
63 A	3P + solid neutral	172 mm	DMM-63/1+SK	1314159	1
63 A	4P	172 mm	DMM-63/4+SK	1314160	1
125 A	3P + solid neutral	172 mm	DMM-125/1+CM	1314206	1
125 A	4P	172 mm	DMM-125/4+CM	1314207	1

* Height from back of switch up to the handle

DMM with padlockable rotary handle, with door interlock function and 400 mm metal shaft



6096807

Thermal current I_{the}	Handle colour	Number of poles	Part number	Article number	Pack qty
125 A	Red/Yellow	3P	DMM-125/3/M4/P-R	6094964	1
125 A	Red/Yellow	4P	DMM-125/4/M4/P-R	6094968	1
125 A	Grey	3P	DMM-125/3/M4/P-G	6096804	1
125 A	Grey	4P	DMM-125/4/M4/P-G	6096805	1
160 A	Red/Yellow	3P	DMM-160/3/M4/P-R	6094965	1
160 A	Red/Yellow	4P	DMM-160/4/M4/P-R	6094969	1
160 A	Grey	3P	DMM-160/3/M4/P-G	6096806	1
160 A	Grey	4P	DMM-160/4/M4/P-G	6096807	1

DMM Enclosed 125 A and 160 A, IP65, padlockable



172849



172848

Thermal current I_{the}	Handle colour	Number of poles	Part number	Article number	Pack qty
125 A	Blue	3P	DMM-125/3/I5/P-B	172849	1
125 A	Grey	3P	DMM-125/3/I5/P-G	172850	1
125 A	Red/Yellow	3P	DMM125/3/I5/P-R	172851	1
125 A	Blue	3P + Solid neutral	DMM-125/3N/I5/P-B	172846	1
125 A	Grey	3P + Solid neutral	DMM-125/3N/I5/P-G	172847	1
125 A	Red/Yellow	3P + Solid neutral	DMM125/3N/I5/P-R	172848	1
125 A	Blue	4P	DMM-125/4/I5/P-B	172852	1
125 A	Grey	4P	DMM-125/4/I5/P-G	172853	1
125 A	Red/Yellow	4P	DMM125/4/I5/P-R	172854	1
160 A	Blue	3P	DMM-160/3/I5/P-B	172792	1
160 A	Grey	3P	DMM-160/3/I5/P-G	172793	1
160 A	Red/Yellow	3P	DMM160/3/I5/P-R	172794	1
160 A	Blue	3P + Solid neutral	DMM-160/3N/I5/P-B	172789	1
160 A	Grey	3P + Solid neutral	DMM-160/3N/I5/P-G	172790	1
160 A	Red/Yellow	3P + Solid neutral	DMM160/3N/I5/P-R	172791	1
160 A	Blue	4P	DMM-160/4/I5/P-B	172795	1
160 A	Grey	4P	DMM-160/4/I5/P-G	172796	1
160 A	Red/Yellow	4P	DMM160/4/I5/P-R	172797	1

DMM Dumeco switch-disconnectors, 40 A to 160 A, 690 V a.c.

DMM Enclosed 125 A and 160 A, IP65, with cylinder lock handle



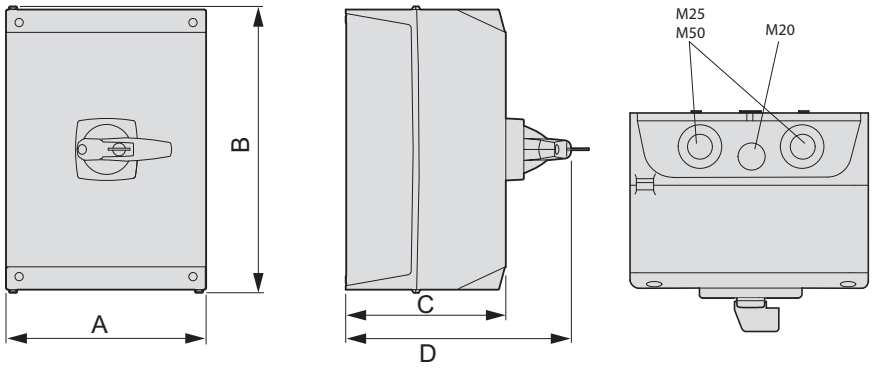
172858



172805

Thermal current I_{the}	Handle colour	Number of poles	Part number	Article number	Pack qty
125 A	Blue	3P	DMM-125/3/I5/C-B	172858	1
125 A	Grey	3P	DMM-125/3/I5/C-G	172859	1
125 A	Red/Yellow	3P	DMM125/3/I5/C-R	172860	1
125 A	Blue	3P + Solid neutral	DMM-125/3N/I5/C-B	172855	1
125 A	Grey	3P + Solid neutral	DMM-125/3N/I5/C-G	172856	1
125 A	Red/Yellow	3P + Solid neutral	DMM125/3N/I5/C-R	172857	1
125 A	Blue	4P	DMM-125/4/I5/C-B	172861	1
125 A	Grey	4P	DMM-125/4/I5/C-G	172862	1
125 A	Red/Yellow	4P	DMM125/4/I5/C-R	172863	1
160 A	Blue	3P	DMM-160/3/I5/C-B	172801	1
160 A	Grey	3P	DMM-160/3/I5/C-G	172802	1
160 A	Red/Yellow	3P	DMM160/3/I5/C-R	172803	1
160 A	Blue	3P + Solid neutral	DMM-160/3N/I5/C-B	172798	1
160 A	Grey	3P + Solid neutral	DMM-160/3N/I5/C-G	172799	1
160 A	Red/Yellow	3P + Solid neutral	DMM160/3N/I5/C-R	172800	1
160 A	Blue	4P	DMM-160/4/I5/C-B	172804	1
160 A	Grey	4P	DMM-160/4/I5/C-G	172805	1
160 A	Red/Yellow	4P	DMM160/4/I5/C-R	172806	1

Enclosure dimensions - mm



	mm	inches
A	200	7.87
B	280	11.02
C	160	6.3
D	226	8.9

Handles and shafts for DMM Dumeco (Handles and shaft are to be ordered separately)

Handles mounting types overview

2

Duco	K Type handles	A Type handles			C Type handles		D/P Type handles			D/C Type handles		
		Blue	Red	Grey	Blue	Red	Blue	Red/ Yellow	Grey	Blue	Red/ Yellow	Grey
40 A	K1	✓	✓	✓	✓	✓	✓	✓	✓			
63 A	K1	✓	✓	✓	✓	✓	✓	✓	✓			
125 A	K2S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
160 A	K2S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

A Type: Handle mounted directly on switch

C Type: Handle without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

D/C Type: Handle with cylinder lock for mounting on hinged door, supplied with two keys, with interlock function

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch



K1 A handle
1818001



K2S A handle
1818004



Shafts

A Type handles **Metal shafts**

	Handle colours			Shaft mm □	Length of shaft						Pack qty
	Blue	Red	Grey		116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	
DMM 40 DMM 63	K1AB 1818001	K1AR 1818002	K1AG 1818200	6 x 6	4K6116MMDCM/ DMM	4K6132MMDMM	4K6148MMDMM	4K6172MMDCM/ DMM	4K6270MMDMM	4K6400MMDCM/ DMM	1
DMM 125 DMM 160	K2SAB 1818003	K2SAR 1818004		6 x 6	1314335*	1314341*	1314342*	1314334*	1314374*	1314370	

C Type handles

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range



K1 C handle
1818015



K2S handle
1818018



Shafts

C Type handles **Metal shafts**

	Handle colours		Shaft mm□	Total height of switch + shaft						Pack qty
	Blue	Red		116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	
DMM 40 DMM 63	K1CB 1818015	K1CR 1818016	6 x 6	4K6116MMDCM/DMM	4K6132MMDMM	4K6148MMDMM	4K6172MMDCM/ DMM	4K6270MMDMM	4K6400MMDCM/ DMM	1
DMM 125 DMM 160	K2SCB 1818017	K2SCR 1818018	6 x 6	1314335*	1314341*	1314342*	1314334*	1314374*	1314370	

* Height of switch from bottom of switch to top of operating shaft

Handles and shafts for DMM Dumeco (Handles and shaft are to be ordered separately)

D/P Type handles

Padlockable for mounting on hinged door, with interlock function



K1 D/P handle
1818029



K2S D/P handle
1818034



Shafts

	D/P Type handles			Metal shafts							
	Handle colours			Shaft mm □	Length of shaft						Pack qty
	Blue	Red	Grey		116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	
DMM 40	K1DB/P 1818029	K1DR/P 1818030	K1DG/P 1818031	6 x 6	4K6116MMDCM/ DMM	4K6132MMDMM	4K6148MMDMM	4K6172MMDCM/ DMM	4K6270MMDMM	4K6400MMDCM/ DMM	1
DMM 63											
DMM 125	K2SDB/P 1818032	K2SDR/P 1818033	K2SDG/P 1818034	6 x 6	1314335*	1314341*	1314342*	1314334*	1314374*	1314370	
DMM 160											

D/C Type handles

With cylinder lock for mounting on hinged door, supplied with two keys, with interlock function



K2SDB/C
1818038



K2SDR/C
1818039



K2SDG/C
1818040



Shafts

	D/C Type handles			Metal shafts							
	Handle colours			Shaft mm □	Length of shaft						Pack qty
	Blue	Red	Grey		116 mm	132 mm	148 mm	172 mm	270 mm	400 mm	
DMM 125	K2SDB/C 1818038	K2SDR/C 1818039	K2SDG/C 1818040	6 x 6	4K6116MMDCM/ DMM	4K6132MMDMM	4K6148MMDMM	4K6172MMDCM/ DMM	4K6270MMDMM	4K6400MMDCM/ DMM	1
DMM 160					1314335*	1314341*	1314342*	1314334*	1314374*	1314370	

* Height of switch from bottom of switch to top of operating shaft

Accessories for DMM Dumeco

Auxiliary switch sets suitable for DMM 40 to 160 A

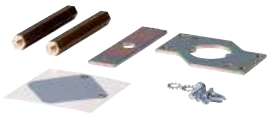
2 Not suitable for DMM with integrated black rotary handle



1314301

Part number	Article number	Rated current	Rated voltage	Contact	Pack qty
AUX1NO+1NCDCM/DMM	1314300	16 A	380 V a.c.	1 NO + 1 NC	1
AUX2NO+2NCDCM/DMM	1314301	16 A	380 V a.c.	2 NO + 2 NC	1

Shaft supporting set for DMM 40 to 160 A



1314369

Part number	Article number	Pack qty
SHAFTSETDCM/DMM	1314369	1

Connection set for DMM 125 A and 160 A



1314232

Part number	Article number	Connecting capacity	Pack qty
SETDMM125*	1314232*	2 x 2.5 mm^2 up to 50 mm^2	1

*Cannot be used with part number 1314330

Transparent terminal cover



1314331

DMM	Part number	Article number	Pack qty
DMM 40	COVERDCM/DMM40/63	1314331	1
DMM 63			
DMM 125	COVERDCM/DMM125*	1314330*	1
DMM 160			

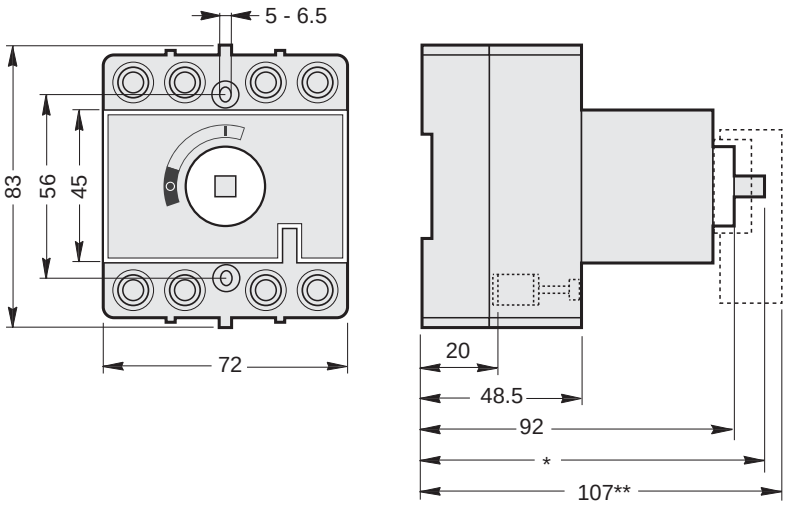
*Cannot be used with part number 1314332

Technical data for DMM Dumeco

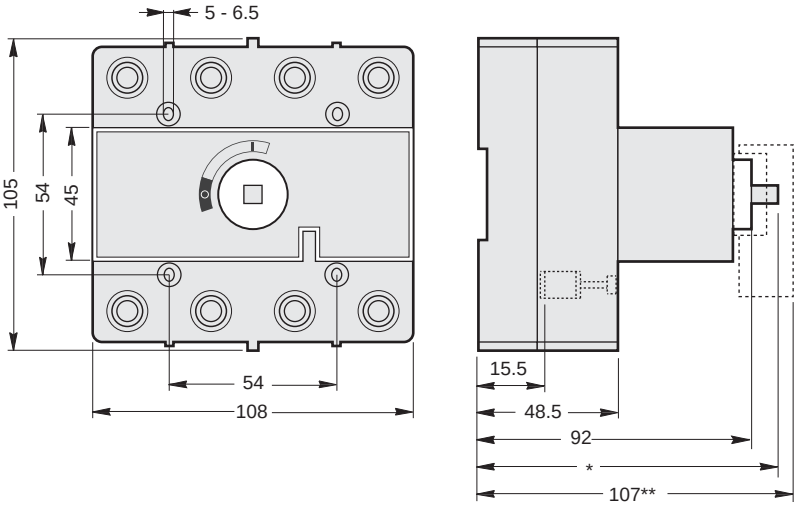
			DMM 40	DMM 63	DMM 125	DMM 160
Conventional free air thermal current	I_{th}		40 A	63 A	125 A	160 A
Conventional enclosed thermal current	I_{the}	35°C	40 A	63 A	125 A	160 A
	I_{the}	50°C	40 A	63 A	125 A	160 A
Rated uninterrupted current	I_u		40 A	63 A	125 A	160 A
Rated operational voltage	U_e		690 V	690 V	690 V	690 V
Rated insulation voltage	U_i		690 V	690 V	690 V	690 V
Rated impulse withstand voltage	U_{imp}		6 kV	6 kV	6 kV	6 kV
Rated frequency			50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Storage temperature			-25°C..+80°C	-25°C..+80°C	-25..+80°C	-25..+80°C
Max altitude (without derating)			2000 m	2000 m	2000 m	2000 m
Rated operational current						
AC-21A						
At U_e = 415 V AC-21A	I_e		40 A	63 A	125 A	160 A
At U_e = 500 V AC-21A	I_e		40 A	63 A	125 A	160 A
At U_e = 690 V AC-21A			40 A	63 A	125 A	160 A
AC-22A						
At U_e = 415 V AC-22A	I_e		40 A	63 A	125 A	160 A
At U_e = 500 V AC-22A			40 A	63 A	125 A	160 A
At U_e = 690 V AC-22A			40 A	63 A	125 A	160 A
AC-23A						
At U_e = 415 V AC-23A	I_e		40 A	63 A	66 A	140 A
At U_e = 500 V AC-23A			25 A	25 A	66 A	66 A
At U_e = 690 V AC-23A			25 A	25 A	42 A	42 A
Rated operational power						
At U_e = 415 V AC-23A	P		22 kW	30 kW	37 kW	80 kW
At U_e = 500 V AC-23A	P		15 kW	15 kW	45 kW	45 kW
At U_e = 690 V AC-23A	P		22 kW	22 kW	37 kW	37 kW
Rated breaking capacity						
At U_e = 415 V	I		320 A	504 A	528 A	1120 A
At U_e = 500 V	I		200 A	200 A	528 A	528 A
At U_n = 690 V	I		200 A	200 A	336 A	336 A
Rated short-time withstand current	I_{cw}		1.5 kA - 1 s	1.5 kA - 1 s	2.5 kA - 1 s	2.5 kA - 1 s
Rated short-circuit making capacity	I_{cm}		2.2 kA	2.2 kA	3.6 kA	3.6 kA
Rated conditional short-circuit current	I_p (I_q)	415 V	100 kA	100 kA	30 kA	30 kA
		690 V	50 kA	50 kA	50 kA	50 kA
Cut-off current	max.	415 V	7.93 kA	7.93 kA	13.7 kA	13.7 kA
		690 V	8.49 kA	8.49 kA	13.5 kA	13.5 kA
Joule integral	max.	415 V	10.5 kA^2s	10.5 kA^2s	134 kA^2s	134 kA^2s
		690 V	25.5 kA^2s	25.5 kA^2s	86.9 kA^2s	86.9 kA^2s
Fuse-link gG max	I_n	415 V	P5gG63-000, 63 A	P5gG63-000, 63 A	P5gG160-1, 160 A	P5gG160-1, 160 A
		690 V	80NHG00B-69, 80 A	80NHG00B-69, 80 A	P6gG125-1, 125 A	P6gG125-1, 125 A
Power dissipation per pole at I_{th}			0.5 W	1.3 W	4.9 W	8 W
Durability - maximum cycles (on+off)			10.000	10.000	10.000	10.000
Pollution degree			III/3	III/3	III/3	III/3
Protection class			IP20	IP20	IP20	IP20
Tightening torque			2 Nm	2 Nm	7 Nm	7 Nm
Copper conductor						
Stranded			6 - 70 mm^2	6 - 70 mm^2	6 - 70 mm^2	6 - 70 mm^2
Flexible			6 - 70 mm^2	6 - 70 mm^2	6 - 70 mm^2	6- 70 mm^2
Standards			IEC 60947-3, EAC			
Certification			KEMA-KEUR, Lloyd's Register			

Outline drawings for DMM Dumeco (Dimensions are in mm)

DMM 40 A and DMM 63 A



DMM 125 A and DMM 160 A

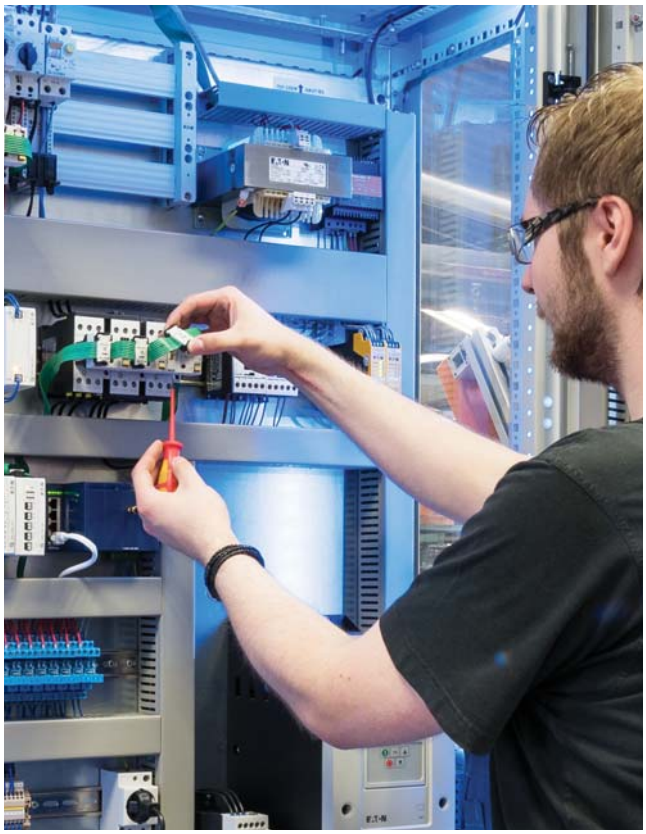


* Dependent on the applied operating shaft

** With integrated black rotary handle

At Eaton, we serve the needs of machine builders and their customers across the globe.

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With ever shorter product lifecycles, customers now expect you to design and build highly customized machines, or to retrofit existing ones, at a faster pace and at lower cost than ever before. Your customers demand machines that operate reliably, error-free, and with maximum energy efficiency.

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DCM Duco switch-disconnectors, 40 A and 63 A, 415 V a.c.



Description

The DCM Duco switch-disconnectors provide safe isolation in a wide range of low voltage applications. Thanks to their excellent making and breaking capacity under load conditions they are particularly suited for use in distribution panels and for machine controls.

Standards/Approvals

- IEC 60947-3
- EAC
- KEMA-KEUR,
- Lloyd's Register

Technical data

- Voltage: 415 V ac.
- Current: 40 A and 63 A
- 3-pole + solid neutral and 4-poles
- Semi-independent manual operation mechanism
- AC-21 A and AC-22 A

Mounting options

Suitable for DIN-Rail mounting and 45 mm standard panel cut-out

Direct operation or with door mount knob

Features

- Compact
- Enclosure made of non-tracking synthetic material
- Semi-independent manual operation mechanism
- Various shaft lengths
- Suitable for padlocking in OFF position (1 padlock, diameter up to 5 mm)
- Available as basic switch body with a selection of shafts and handles or with integrated black rotary handle
- Available with horizontal cable connection
- Available for front mounting

DCM Duco switch-disconnectors, 40 and 63 A, 415 V a.c.

DCM range overview

	40 A	63 A
Switch-disconnectors with integrated black rotary handle	✓	✓
Switch-disconnectors without shaft and knob	✓	✓
Switch-disconnectors with shaft C Type handles for mounting on Halyester cover only	✓	✓

DCM with integrated black rotary handle



1314106

Thermal current I_{the}	Number of poles	Part number	Article number	Pack qty
40 A	3P + solid neutral	DCM-40/1	1314106	1
40 A	4P	DCM-40/4	1314110	1
63 A	3P + solid neutral	DCM-63/1	1314004	1
63 A	4P	DCM-63/4	1314006	1

DCM without shaft and handle



1314109 Vertical cable connection



1314104 Horizontal cable connection



1314113 Front mounting

Thermal current I_{the}	Number of poles	Part number	Article number	Pack qty
Vertical cable connection				
40 A	3P + solid neutral	DCM-40/1-SK+VC	1314105	1
40 A	4P	DCM-40/4-SK+VC	1314109	1
63 A	3P + solid neutral	DCM-63/1-SK+VC	1314003	1
63 A	4P	DCM-63/4-SK+VC	1314016	1
Horizontal cable connection				
40 A	3P + solid neutral	DCM-40/1-SK+HC	1314104	1
40 A	4P	DCM-40/4-SK+HC	1314108	1
63 A	3P + solid neutral	DCM-63/1-SK+HC	1314002	1
63 A	4P	DCM-63/4-SK+HC	1314015	1
Front mounting				
40 A	3P + solid neutral	DCM-40/1-SK+FM	1314112	1
40 A	4P	DCM-40/4-SK+FM	1314113	1
63 A	4P	DCM-63/4-SK+FM	1314009	1

DCM with shaft and cover mounted handle, without interlock function, for example when mounted on Eaton's Halyester enclosure range



1314007

Thermal current I_{the}	Number of poles	Height*	Part number	Article number	Pack qty
40 A	3P + solid neutral	116 mm	DCM-40/1+CM	1314107	1
40 A	4P	116 mm	DCM-40/4+CM	1314111	1
63 A	3 + solid neutral	116 mm	DCM-63/1+CM	1314005	1
63 A	4P	116 mm	DCM-63/4+CM	1314007	1

* Height of switch from bottom of switch to top of operating shaft

Handles and shafts for DCM Duco (Handles and shaft are to be ordered separately)

Handles mounting types overview

Duco	K Type handles	A Type handles			C Type handles		D/P Type handles		
		Blue	Red	Grey	Blue	Red	Blue	Red/ Yellow	Grey
40 A	K1	✓	✓	✓	✓	✓	✓	✓	✓
63 A	K1	✓	✓	✓	✓	✓	✓	✓	✓

A Type: Handle mounted directly on switch

C Type: Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch



K1AB 1818001



K1AR 1818002



K1AG 1818200



Shafts

A Type handles **Metal shafts**

Handles colours			Shaft mm□	Length of shafts (length from base of switch to top of shaft)						Pack qty
Blue	Red	Grey		100 mm	116 mm	132 mm	156 mm	254 mm	384 mm	
K1AB 1818001	K1AR 1818002	K1AG 1818200	6 x 6	4K6116MMDCM/DMM 1314335	4K6132MMDMM 1314341	4K6148MMDMM 1314342	4K6172MMDCM/DMM 1314334	4K6270MMDMM 1314374	4K6400MMDCM/DMM 1314370	1

C Type handles

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range



K1CB 1818015



K1CR 1818016



Shafts

C Type handles **Metal shafts**

Handle colours		Shaft mm□	Length of shafts (length from base of switch to top of shaft)						Pack qty
Blue	Red/ yellow		100 mm	116 mm	132 mm	156 mm	254 mm	384 mm	
K1CB 1818015	K1CR 1818016	6 x 6	4K6116MMDCM/DMM 1314335	4K6132MMDMM 1314341	4K6148MMDMM 1314342	4K6172MMDCM/DMM 1314334	4K6270MMDMM 1314374	4K6400MMDCM/DMM 1314370	1

D/P Type handles

Padlockable for mounting on hinged door, with interlock function



K1DB/P 1818029



K1DR/P 1818030



K1DG/P 1818031



Shafts

D/P Type handles **Metal shafts**

Handle colours			Shaft mm□	Length of shafts (length from base of switch to top of shaft)						Pack qty
Blue	Red/ yellow	Grey		100 mm	116 mm	132 mm	156 mm	254 mm	384 mm	
K1DB/P 1818029	K1DR/P 1818030	K1DG/P 1818031	6 x 6	4K6116MMDCM/DMM 1314335	4K6132MMDMM 1314341	4K6148MMDMM 1314342	4K6172MMDCM/DMM 1314334	4K6270MMDMM 1314374	4K6400MMDCM/DMM 1314370	1

Accessories for DCM Duco

Front mounting kit



1314344

DCM	Part number	Article number	Pack qty
DCM 40 A	FRONTKITDCM/DMM	1314344	1
DCM 63 A			1

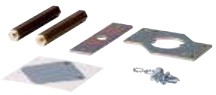
Auxiliary switch set



1314301

Part number	Article number	Current	Voltage	Contact	Pack qty
AUX1NO+1NCDCM/DMM	1314300	16 A	380 V a.c.	1 NO + 1 NC	1
AUX2NO+2NCDCM/DMM	1314301	16 A	380 V a.c.	2 NO + 2 NC	1

Shaft supporting set for use with 384 mm shaft (article number 1314370)



1314369

DCM	Part number	Article number	Pack qty
DCM 40 A	SHAFTSETDCM/DMM	1314369	1
DCM 63 A			1

Transparent terminal cover



1314331

DCM	Part number	Article number	Pack qty
DCM 40 A	COVERDCM/DMM40/63	1314331	1
DCM 63 A			1

Conversion kits for locking the D Type handles in both On and Off position



1818103

QSA	Part number	Article number	Pack qty
DCM 40 A	ADAPTORPADLOCK-K1	1818103	1
DCM 63 A			1

Coupling links for extension of universal shafts



1319833

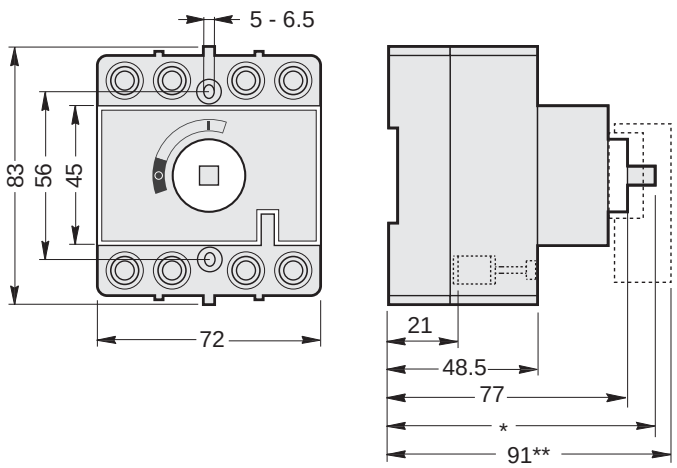
QSA	Shaft mm□	Part number	Article number	Pack qty
DCM 40 A	6 x 6	COUP6X6MM	1319833	1
DCM 63 A	6 x 6			1

Technical data for DCM Duco

		DCM 40	DCM 63
Conventional free air thermal current	I_{th}	40 A	63 A
Conventional enclosed thermal current	I_{the}	40 A	63 A
Rated uniterrupted current	I_u	40 A	63 A
Rated operational voltage	U_e	415 V	415 V
Rated insulation voltage	U_i	690 V	800 V
Rated impulse withstand voltage	U_{imp}	6 kV	6 kV
Rated frequency		50 Hz	50 Hz
Max altitude (without derating)		2000 m	2000 m
Rated operational current			
At U_e = 415 V AC-21A	I_e	40 A	63 A
At U_e = 415 V AC-22A	I_e	40 A	63 A
At U_e = 415 V AC-23A	I_e	40 A	63 A
Rated operational power			
At U_e = 415 V AC-23A		16.6 kW	26 kW
Rated short-time withstand current	I_{cw}	1.5 kA	1.5 kA
Rated short-circuit making capacity	I_{cm}	2.2 kA	2.2 kA
Rated conditional short-circuit current	I_p (I_q)	415 V: 50 kA	415 V: 50 kA
Cut-off current	max.	690 V: 7 kA	690 V: 7 kA
Joule integral	max.	690 V: 12 kA^2s	690 V: 12 kA^2s
Fuse-link max	I_n	690 V: 50 A	690 V: 800 A
Terminal capacities			
Copper connector:			
Solid		2.5 - 6 mm^2	2.5 - 6 mm^2
Stranded		2.5 - 25 mm^2	2.5 - 25 mm^2
Flexible		1.5 - 25 mm^2	1.5 - 25 mm^2
Tightening torque		2 Nm	2 Nm
Pollution degree		III/3	III/3
Protection class		IP20	IP20
Standards		EN-IEC 60947-3, EAC	
Certification		KEMA-KEUR, Lloyd's Register	

Outline drawing for DCM (Dimensions are in mm)

DCM Duco 40 A and 63 A



Our flip catalog: Get information, select, order – the fast and easy way!



This product overview is designed as a quick selection aid for our core range of machine building products. And to make it even more powerful, we have an online version with comprehensive extra features available: our digital flip catalog. The result? Getting information and placing orders is easier and faster than ever before.

How does our digital flip catalog work? Easy: Its contents are linked to the Eaton online catalog and to the relevant product pages on the Internet, meaning that clicking on a part number or article number will take you directly to all the pertinent product information. In other words, the flip catalog is the perfect way to obtain comprehensive, up-to-date information, perfectly complementing our hard copy catalog.

DMV Change-over mechanisms, 160 A to 2000 A, 690 V a.c. for DMV switch-disconnectors



Description

The Dumeco DMV change-over mechanisms convert DMV switch-disconnectors into 3 to 4-pole change-over switches.

Standards/Approvals

- IEC 60947-3
- EAC
- KEMA-KEUR
- Lloyd's Register
- CCC up to 1250 A

Technical data

- Voltage: 690 V ac.
- Current: 160 A to 2000 A

Features

- Compact
- Made of non-tracking material
- Independent manual operation
- Easy installation of 3-pole + solid neutral or 4-pole

DMV Change-over mechanisms, 160 A to 2000 A, 690 V a.c. for DMV switch-disconnectors

Parts required for the change-over mechanisms

- 2 switch-disconnectors
- 1 Change-over mechanism
- 1 through-connector set (4-pole)
- 1 operating shaft (6 mm, 10 mm or 14 mm shaft)
- 1 change-over handle. **Note: Use 2 standard handles for 1250 A, 1600 A and 2000 A DMV switch-disconnectors**



2 switch-disconnectors | 1 Change-over mechanism | 1 through-connector set | Operating shaft | Handles

Change-over mechanisms for Dumeco DMV switch-disconnectors



1314314



1314884

Suitable for DMV	Part number	Article number	Pack qty
DMV 160N	CODMV160N*	1314314*	1
DMVS 160N, DMV 250N and DMV 400N	CODMVS160N/400N	1314884	1
DMV 630N and DMV 1000N	CODMV630N/1000N	1314682	1
DMV 1250N, DMV 1600N and DMV 2000N	CODMV1250/1600/2000A3P**	1314336**	1

*1314314: Operating shaft included (shaft length = 70 mm from top of change-over mechanism)

**1314336: When door mounted padlockable handle (D/P Type) is required 2 additional standard shafts (Article number 1050250) and 2 additional handles (Article number 1818076) are necessary

Bridge connector set



1314320

Suitable for DMV	Part number	Article number	Pack qty
DMV 160N	SETDMV160N	1314320	1 (4 pieces)
DMVS 160N, DMV 250N	SETDMVS160N/250N	1314878	1 (4 pieces)
DMV 400N	SETDMV400N	1314879	1 (4 pieces)
DMV 630N	SETDMV630N	1314881	1 (4 pieces)
DMV 1000N	SETDMV1000N	1314883	1 (4 pieces)

Handles and shafts for change-over mechanisms (Handles and shaft are to be ordered separately)

Handles mounting types overview

DMV	K Type handles	Shaft square mm ☐	A Type handles			D/P Type handles*
			Blue	Red	Grey	Blue
DMV 160N	K2S	6 x 6	✓	✓		✓*
DMVS 160N	K3	6 x 6	✓	✓	✓	✓*
DMV 250N	K3	10 x 10	✓	✓	✓	✓*
DMV 400N	K3	10 x 10	✓	✓	✓	✓*
DMV 630N	K5	14 x 14	✓	✓	✓	✓*
DMV 1000N	K5	14 x 14	✓	✓	✓	✓*
DMV 1250N	K6 (2x)	14 x 14	✓	✓	✓	
	K5	14 x 14				✓*
DMV 1600N	K6 (2x)	14 x 14	✓	✓	✓	
	K5	14 x 14				✓*
DMV 2000N	K6 (2x)	14 x 14	✓	✓	✓	
	K5	14 x 14				✓*

A Type: Handle mounted directly on switch

***D/P Type:** Handle padlockable for mounting on hinged door with interlock function. These handles are pre-printed with 1, 0, 2 position

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch



K2S A handle
1818003



K3 A handle
1818111



K5 A handle
1818011



K6 A handle
1818014



Shafts

Change-over mechanism	Suitable for DMV	A Type handles: Handle colours Blue	Red	Grey	Metal shafts: Shaft mm☐	Lenght of shafts 185 mm	200 mm	230 mm	400 mm	Pack qty
CODMV160N 1314314	DMV 160N	K2SAB 1818003	K2SAR 1818004		Shaft already included with the mechanism					1
CODMVS160N/400N 1314884	DMVS 160N DMV 250N DMV 400N	K3AB 1818110	K3AR 1818111	K3AG 1818202	10 x 10	4K10H185COK3 1050251			4K10H400COK3 1050252	1
CODMV630N/1000N 1314682	DMV 630N DMV 1000N	K5AB 1818011	K5AR 1818012		14 x 14			4K14H230COK5 1050253	4K14H400COK5 1050254	1
CODMV1250/1600/2000A3P 1314336	DMV 1250N DMV 1600N DMV 2000N	K6AB 1818013	K6AR 1818014		14 x 14		4K14K6H200 1050248		4K14K6H400 1050250	1

Handles and shafts for change-over mechanisms (Handles and shaft are to be ordered separately)

D/P Type handles

Padlockable for mounting on hinged door, with interlock fucntion



K02SDB/P handle
1818072



K03D/P handle
1818116



K05DB/P handle
1818076

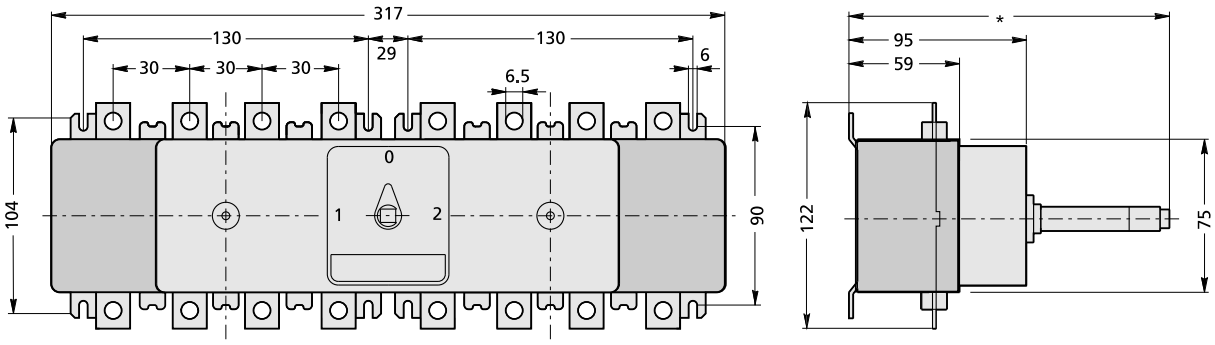


Shafts

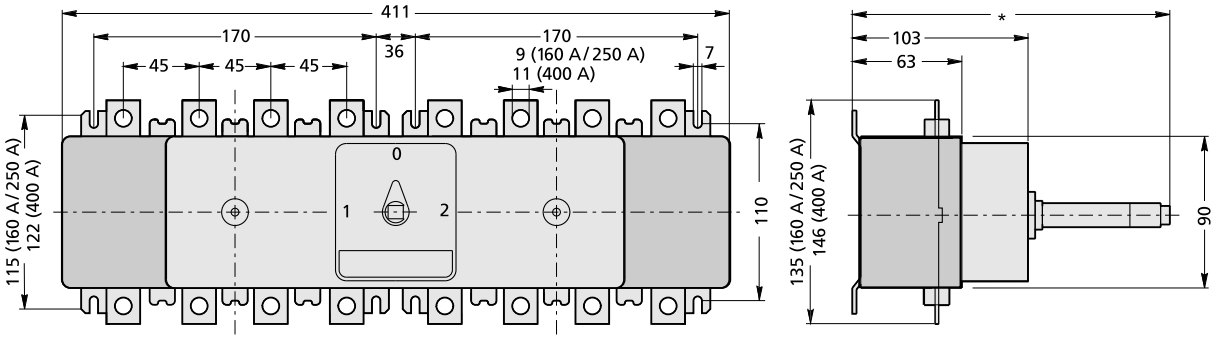
Change-over mechanism	Suitable for DMV	D/P Type handles: Handle colours: Blue	Metal shafts: Shaft mm□	Metal shafts: Length of shafts: 185 mm	200 mm	230 mm	400 mm	Pack qty
CODMV160N 1314314	DMV 160N	KO2SDB/P 1818072	Shaft already included with the mechanism					1
CODMVS160N/400N 1314884	DMVS 160N DMV 250N DMV 400N	KO3DB/P 1818116	10 x 10	4K10H185COK3 1050251			4K10H400COK3 1050252	1
CODMV630N/1000N 1314682	DMV 630N DMV 1000N	KO5DB/P 1818076	14 x 14			4K14H230COK5 1050253	4K14H400COK5 1050254	1
CODMV1250/1600/2000A3P 1314336	DMV 1250N DMV 1600N DMV 2000N	KO5DB/P 1818076	14 x 14		4K14K6H200 1050248		4K14K6H400 1050250	1

Outline drawings for change-over mechanisms (Dimensions are in mm)

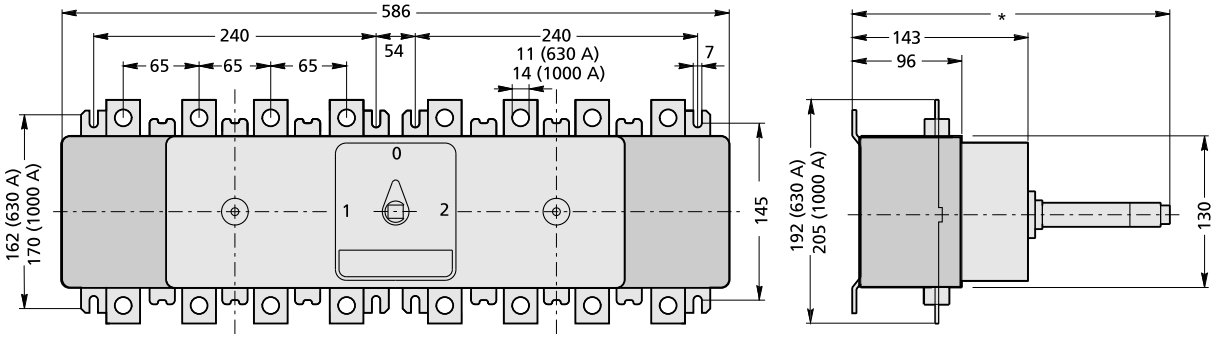
Change-over mechanisms suitable for DMV 160N - horizontal



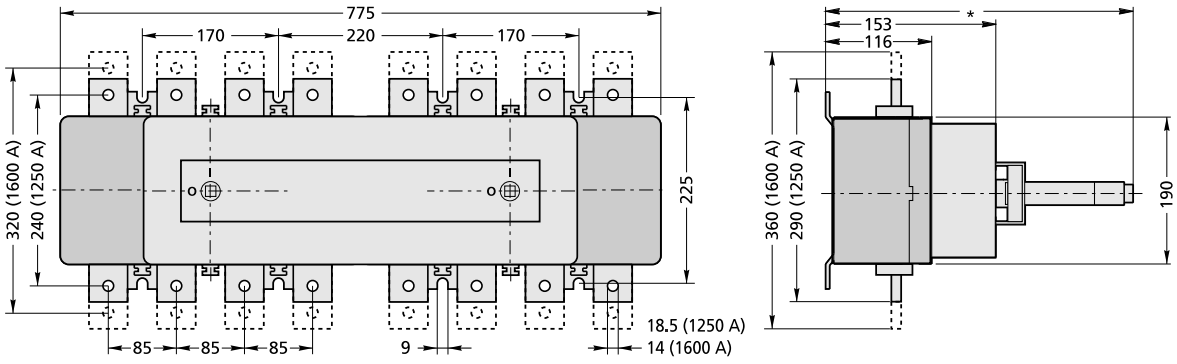
Change-over mechanisms suitable for DMVS 160N, DMV 250N and DMV 400N - horizontal



Change-over mechanisms suitable for DMV 630N and DMV 1000N - horizontal

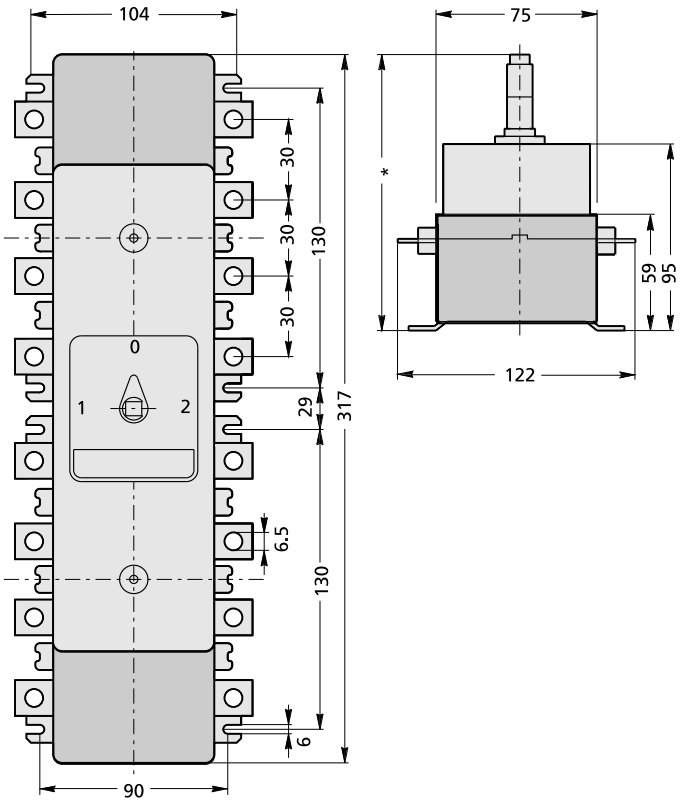


Change-over mechanisms suitable for DMV 1250N and DMV 1600N - horizontal

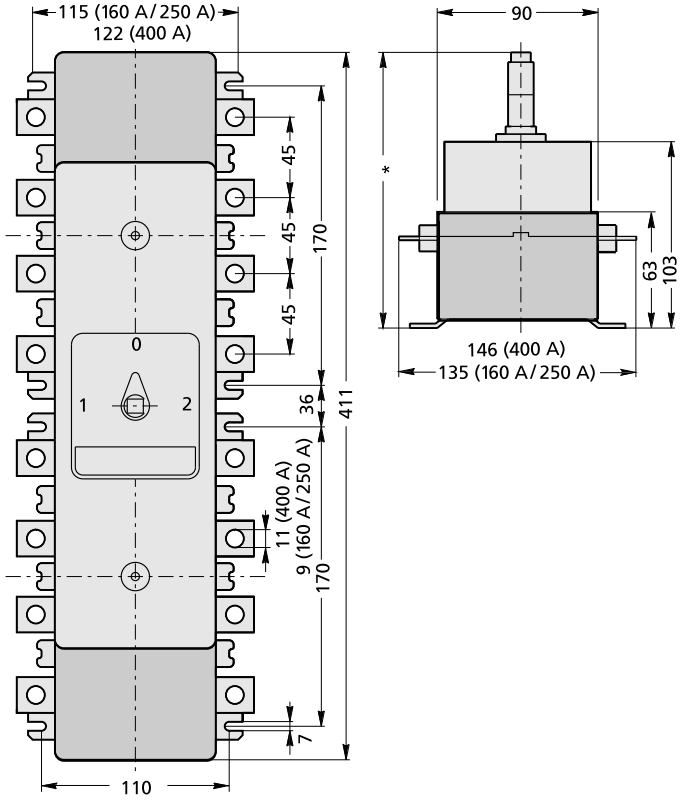


Outline drawings for change-over mechanisms (Dimensions are in mm)

Change-over mechanisms suitable for DMV 160N - vertical



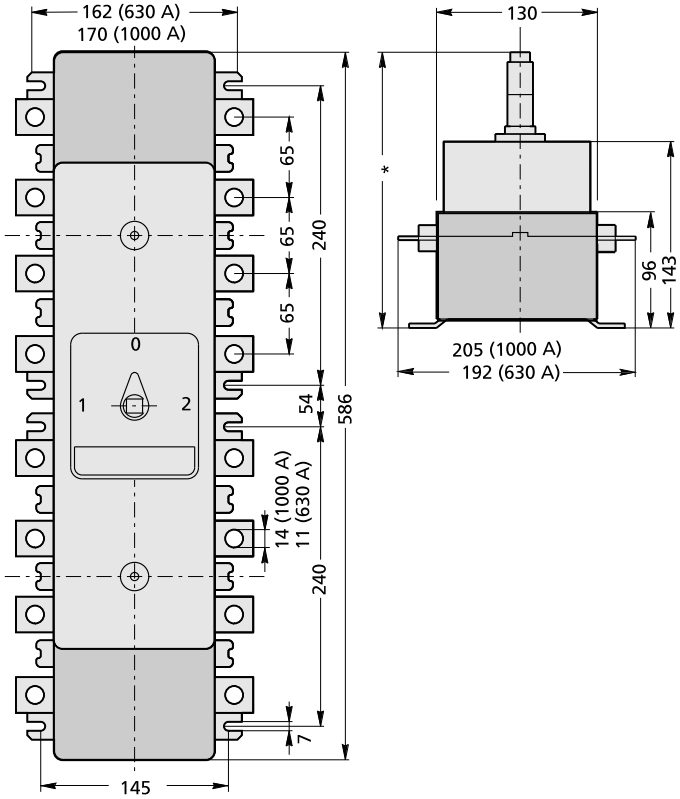
Change-over mechanisms suitable for DMVS 160N, DMV 250N and DMV 400N - vertical



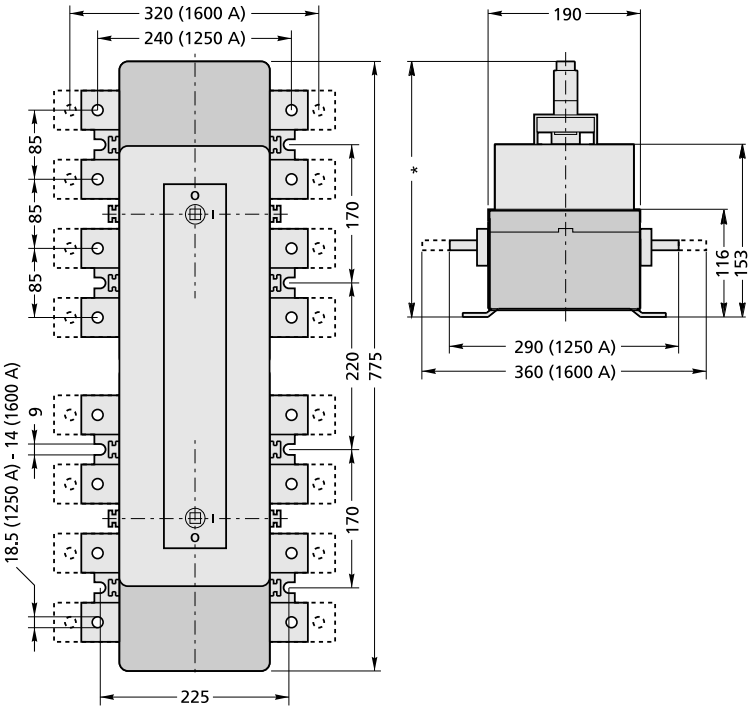
* Dependant on the applied operating shaft

Outline drawings for change-over mechanisms (Dimensions are in mm)

Change-over mechanisms suitable for DMV 630N and DMV 1000N - vertical

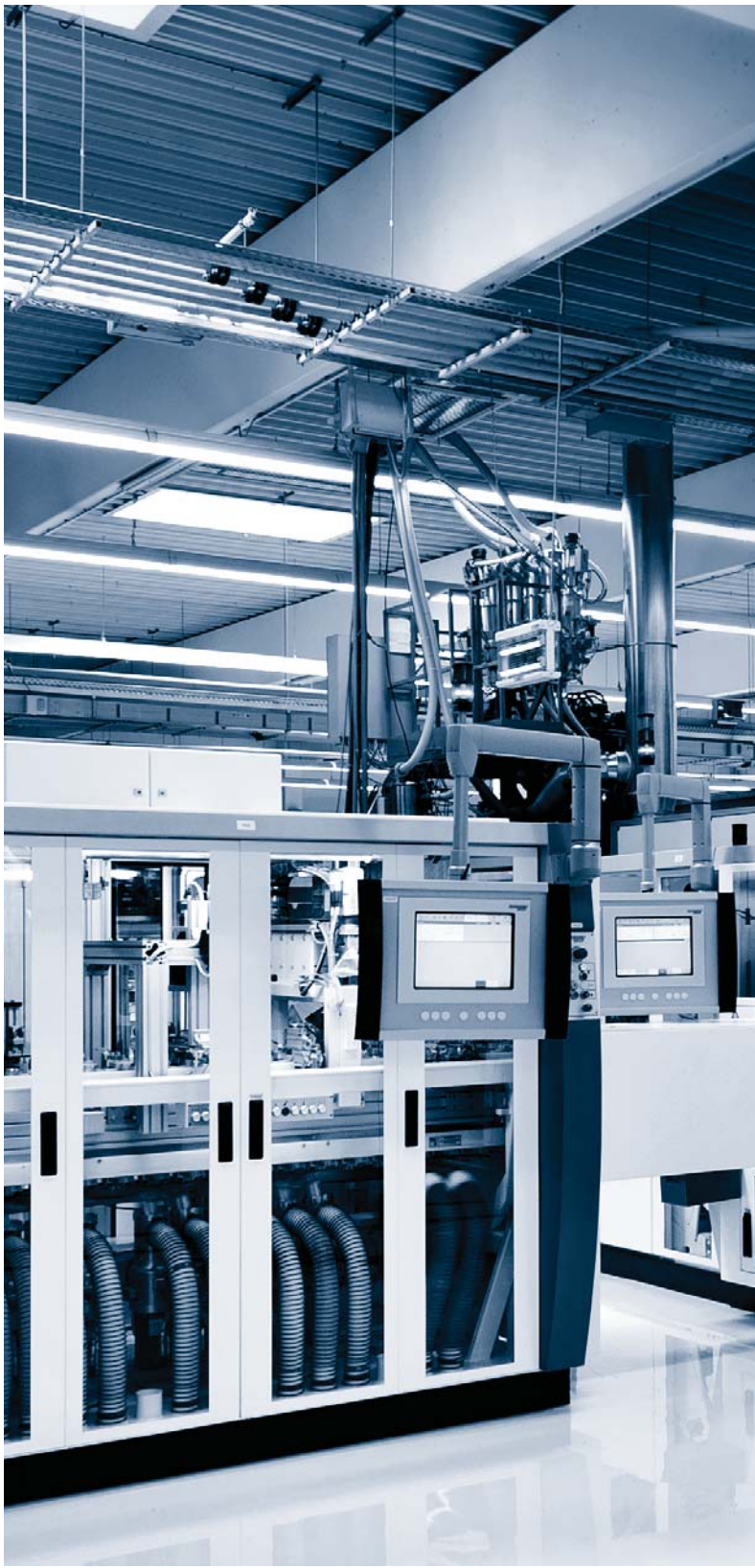


Change-over mechanisms suitable for DMV 1250N and DMV 1600N - vertical



* Dependant on the applied operating shaft

Optimise space and budget



Eaton are dedicated to offering innovative solutions that are safe, compact, reliable and financially efficient. With budgets across the sector increasingly squeezed, the importance of reducing costs across engineering, wiring, testing and commissioning is paramount to future profitability. Eaton can help you achieve this cost reduction and improve downtime in the process.

Standardize Operations

Our portfolio of standardised solutions can revolutionise your operational efficiency. Designed to meet global standards, manage costs and reduce energy consumption, Eaton can help you build state-of-the-art systems that are both easy to maintain and service.

Improve integrated performance

Offering compatibility with a wide variety of technology our solutions can be integrated into ready built systems to enhance flexibility, improve diagnostic output and increase communication between machines within a network.

Prioritize Safety

Safety is one of Eaton's greatest priorities throughout the machine building process, we are dedicated to developing safer working environments and reducing operational risks. Our solutions have been efficiently designed to meet all regulatory requirements without duplicating wiring or generating resource waste. The safeguards we implement at every stage of the process ensure risk of overload, damage or fire is minimized.





DMV Multipole mechanisms, 160 A to 1000 A, 690 V a.c. for DMV switch-disconnectors



Description

The Dumeco DMV multipole mechanisms convert DMV switch-disconnectors into 6 to 8-pole disconnectors.

Standards/Approvals

- IEC 60947-3
- EAC
- KEMA-KEUR
- Lloyd's Register
- CCC

Technical data

- Voltage: 690 V a.c.
- Current: 160 A to 1000 A

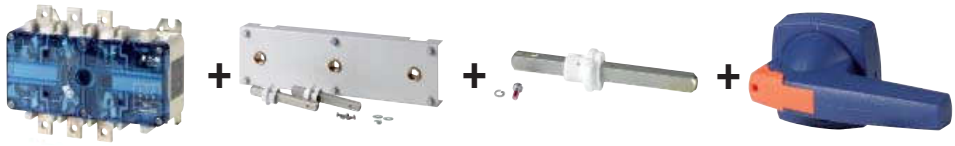
Features

- Compact
- Made of non-tracking materials
- Independent manual operation
- Easy installation of switched or solid neutral for 4-pole version

DMV Multipole mechanisms, 160 A to 1000 A, 690 V a.c. for DMV switch-disconnectors

Required parts for the multipole mechanisms

- 2 switch-disconnectors
- 1 multipole mechanism
- 1 operating shaft (10 mm or 14 mm)
- 1 change-over handle.



2 switch-disconnectors | 1 multipole mechanism | Operating shaft | Handles

Multipole mechanisms for Dumeco DMV switch-disconnectors



1314039

Suitable for DMV	Part number	Article number	Pack qty
DMV 160N	MPDMV160N	1314337	1
DMVS 160N, DMV 250N and DMV 400N	MPDMV250N/400N	1314039	1
DMV 630N and DMV 1000N	MPDMV630N/1000N	1314040	1

Handles and shafts for multipole mechanisms (Handles and shaft are to be ordered separately)

Handles mounting types overview

			A Type handles			D/P Type handles			D/C Type handles		
DMV	K Types handle	Shaft mm □	Blue	Red	Grey	Blue	Red/ Yellow	Grey	Blue	Red/ Yellow	Grey
DMV 160N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMVS 160N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 250N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 400N	K3	10 x 10	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 630N	K5	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMV 1000N	K5	14 x 14	✓	✓	✓	✓	✓	✓	✓	✓	✓

A Type: Handle mounted directly on switch

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

D/C Type: Handle with cylinder lock for mounting on hinged door, supplied with two keys, with interlock function

See handles dimensions pages 96 to 99

Handles and shafts for DMV multipole mechanisms (Handles and shaft are to be ordered separately)

A Type handles

Mounted directly on switch suitable for DMV 160N, DMVS 160N, DMV 250N up to DMV 1000N



K3 A handle
1818111



K5 A handle
1818011



Shafts

		A Type handles			Metal shafts					
		Handle colours				Length of shafts				
Multipole mechanism	Suitable for DMV	Blue	Red	Grey	Shaft mm□	135 mm	200 mm	245 mm	400 mm	Pack qty
MPDMV160N 1314337	DMV 160N	K3AB 1818110	K3AR 1818111	K3AG 1818202	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243	1
MPDMV250N/400N 1314039	DMVS 160N									
	DMV 250N									
	DMV 400N									
MPDMV630N/1000N 1314040	DMV 630N	K5AB 1818011	K5AR 1818012		14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	1
	DMV 1000N									

D/P Type handles

Padlockable for mounting on hinged door, with interlock function, suitable for DMV 160N, DMVS 160N up to and DMV 1000N



K3 D/P handle
1818096



K5 D/P handle
1818056



Shafts

		D/P Type handles			Metal shafts					
		Handle colours				Shaft length				
Multipole mechanism	Suitable for DMV	Blue	Red	Grey	Shaft mm□	135 mm	200 mm	245 mm	400 mm	Pack qty
MPDMV160N 1314337	DMV 160N	K3DB/P 1818113	K3DR/P 1818096	K3DG/P 1818069	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243	1
MPDMV250N/400N 1314039	DMVS 160N									
	DMV 250N									
	DMV 400N									
MPDMV630N/1000N 1314040	DMV 630N	K5DB/P 1818056	K5DR/P 1818057	K5DG/P 1818058	14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	1
	DMV 1000N									

Handles and shafts for multipole mechanisms (Handles and shaft are to be ordered separately)

D/C Type handles

With cylinder lock for mounting on hinged door, with interlock function, suitable for DMV 160N, DMVS 160N up to DMV 1000N



K3 D/C handle
1818097



K5 D/C handle
1818061

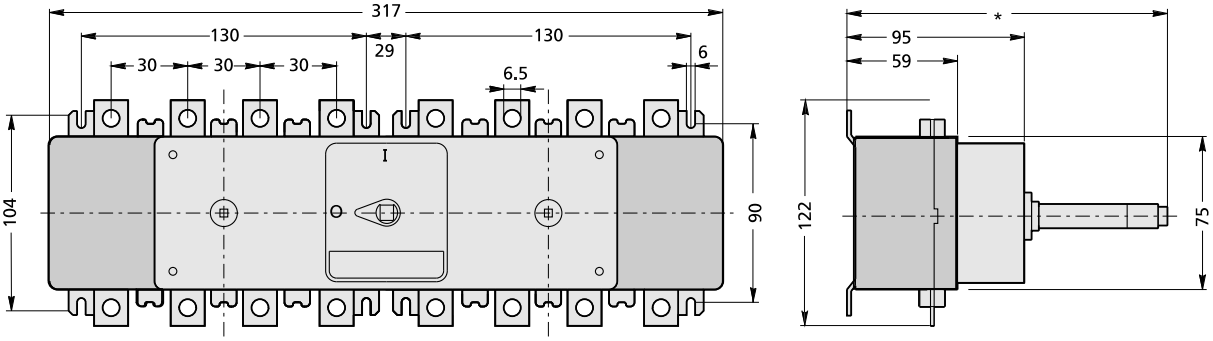


Shafts

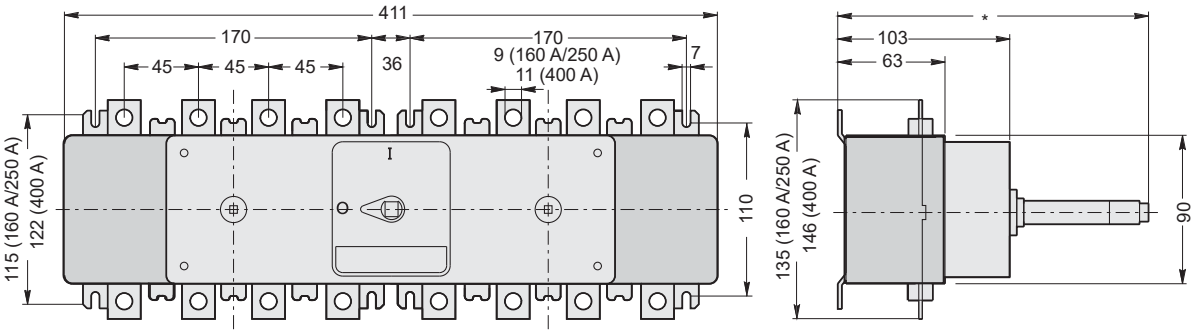
		D/C Type handles			Metal shafts					
		Handle colours				Length of shafts				
Multipole mechanism	Suitable for DMV	Blue	Red	Grey	Shaft mm□	135 mm	200 mm	245 mm	400 mm	Pack qty
MPDMV160N 1314337	DMV 160N	K3DB/C 1818114	K3DR/C 1818097	K3DG/C 1818070	10 x 10	4K10K3H135 1050240		4K10K3H245 1050242	4K10K3H400 1050243	1
MPDMV250N/400N 1314039	DMVS 160N									
	DMV 250N									
	DMV 400N									
MPDMV630N/1000N 1314040	DMV 630N	K5DB/C 1818059	K5DR/C 1818060	K5DG/C 1818061	14 x 14		4K14K5H200 1050244		4K14K5H400 1050247	1
	DMV 1000N									

Outline drawings for Multipole mechanisms (Dimensions are in mm)

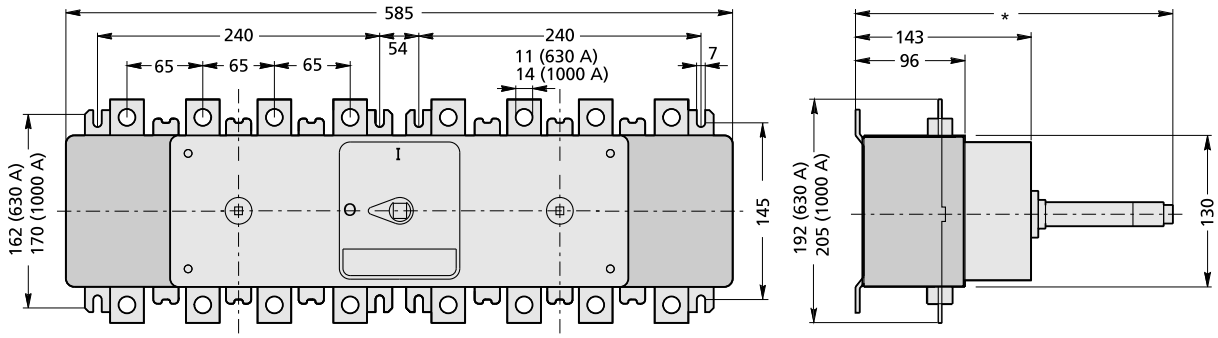
Multipole mechanisms suitable for DMV 160N - horizontal



Multipole mechanisms suitable for DMVS 160N, DMV 250N and DMV 400N - horizontal



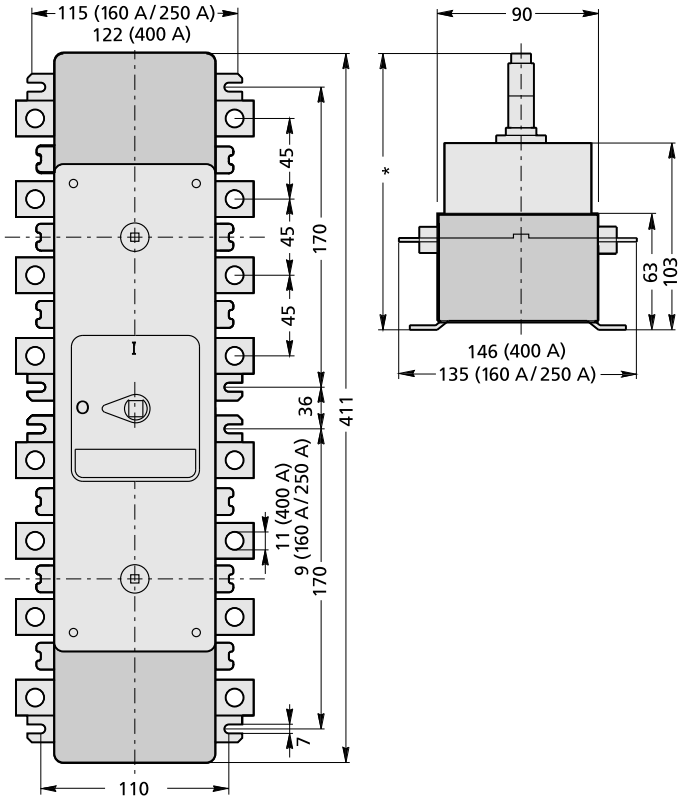
Multipole mechanisms suitable for DMV 630N and DMV 1000N - horizontal



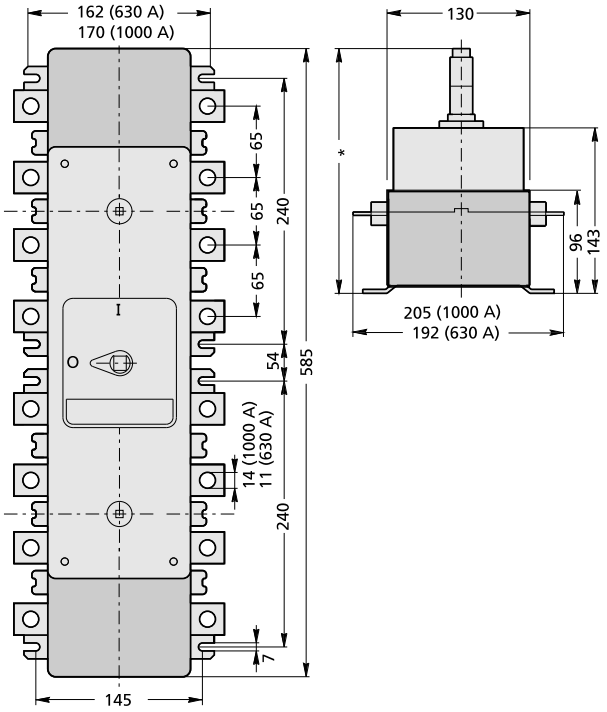
* Dependant on the applied operating shaft

Outline drawings for Multipole mechanisms (Dimensions are in mm)

Multipole mechanisms suitable for DMVS 160N, DMV 250N and DMV 400N - vertical



Multipole mechanisms suitable for DMVS 160N, DMV 250N and DMV 400N - vertical



* Dependant on the applied operating shaft

QM Change-over and multipole switches, 40 A to 100 A, 690 V a.c.



Description

The change-over and multipole switches Type QM provide safe isolation in a wide range of low voltage applications where 6 to 8-poles are required, also the perfect solution for 3 to 4-pole change-over applications.
Thanks to their excellent making and breaking capacity under load conditions they are particularly suited for use in distribution panels and for machine controls.

Standards/Approvals

- IEC 60947-3
- EAC

Technical data

- Voltage: 690 V ac.
- Current: 40 A to 100 A
- 6 to 8-pole OFF-ON
- 3 or 4-pole change-over applications
- Direct operation or with door mount knob
- Utilisation category: AC-23A

Mounting options

- DIN-Rail mounting and base plate

Features

- Compact
- Made of non-tracking material
- Independent manual operation for ON and OFF switching
- Easy installation of switched or solid neutral for 4-pole version

QM Change-over and multipole switches, 40 A to 100 A, 690 V a.c.

QM Change-over and multipole switches - range overview

	40 A	50 A	63 A	80 A	100 A
Change-over switches, 3 -pole and 3-pole + switched neutral	✓		✓		✓
Multipole switches, 6-pole and 6-pole + 2 switched neutral		✓		✓	

QM Change-over switches



1319970

Number of poles	Thermal current I_{the}	Suitable shaft	Part number	Article number	Pack qty
2 x 3P + switched neutral	40 A	6 x 6 mm	QM40/3N	1319970	1
2 x 3P	63 A	6 x 6 mm	QM63/3	1319807	1
2 x 3P + switched neutral	63 A	6 x 6 mm	QM63/3N	1319915	1
2 x 3P	100 A	6 x 6 mm	QM100/3	1319815	1
2 x 3P + switched neutral	100 A	6 x 6 mm	QM100/3N	1319916*	1

QM Multipole switches



1319904

Number of poles	Thermal current I_{the}	Suitable shaft	Part number	Article number	Pack qty
6P	50 A	6 x 6 mm	QM63/6	1319806	1
6P + 2 switched neutral	50 A	6 x 6 mm	QM63/6N2	1319904	1
6P	80 A	6 x 6 mm	QM100/6	1319814	1
6P + 2 switched neutral	80 A	6 x 6 mm	QM100/6N2	1319905	1

Parts required for interlock door mounted handle

- 1 QM change-over or multipole switch
- 1 coupling for use with extension shaft
- 1 extension shaft for door mounting the operating knob
- 1 door coupling
- 1 operating knob



1 change-over or multipole switch

1 coupling for use with extension shaft

1 extension shaft for door mounting the operating knob

1 door coupling

1 operating knob

Accessories for QM Change-over and multipole switches

Coupling for use with extension shafts



1319833

Shaft mm□	Part number	Article number	Pack qty
6 x 6	COUP6X6MM	1319833	1

Extension shaft for door mounting the operating knob



1319830

Shaft mm □	Length	Suitable for knob	Part number	Article number	Pack qty
6 x 6	180mm	K1/K2S	4K6180MMK1/2S	1319830	1
6 x 6	300 mm	K1/K2S	4K6300MMK1/2S	1319831	1
6 x 6	600 mm	K1/K2S	4K6600MMK1/2S	1319832	1

Door coupling



1319857

Description	Part number	Article number	Pack qty
Door coupling base-plate for change-over and multipole switches	QMDOORCOUP	1319857	1

Operating knob



1319855

Description	Part number	Article number	Pack qty
Operating knob black (0-1) for multipole switch	QMHANDLEMP	1319855	1
Operating knob, black (1-0-2) for change-over switch	QMHANDLECO	1319856	1

Connection sets (4-pole) for change-over switch only



1319969

QM	Part number	Article number	Pack qty
QM40 and QM63	QMCOSET40/63	1319969	1
QM 100	QMCOSET100	1319967	1

Solid neutrals



1319858

QM	Number of poles	Part number	Article number	Pack qty
QM40/3 and QM60/3	3P + Solid neutral	QMNEUTRAL40/634P	1319858	1
QM80/3 and QM100/3	3P + Solid neutral	QMNEUTRAL80/1004P	1319859	1

Accessories for QM change-over and multipole switches

Earth terminals



1319868

QM	Part number	Article number	Pack qty
QM40 and QM63	QMEARTH40/63	1319868	1
QM80 and QM100	QMEARTH80/100	1319869	1

Auxiliary switches



1319853

QM	Contact configuration	Part number	Article number	Pack qty
QM40 and QM63	1 NO + 1 NC	QMAUX1NO+1NC40/63	1319851	1
QM80 and QM100	1 NO + 1 NC	QMAUX1NO+1NC80/100	1319853	1

Protective covers set for connection terminals



1319870

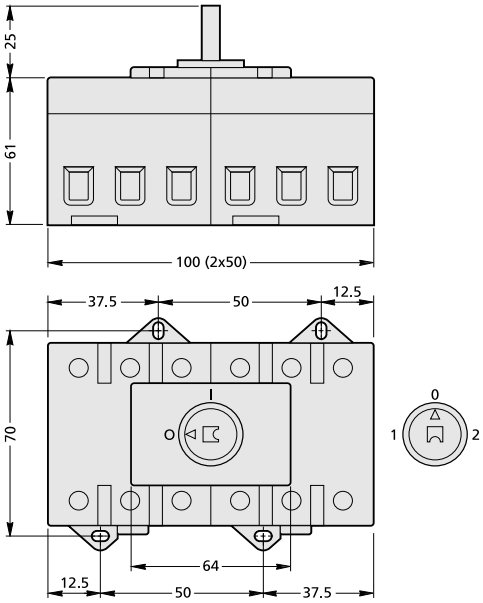
QM	Number of poles	Part number	Article number	Pack qty
QM 40/3, QM 63/3	3P	QMCOVER40/633P	1319870	1
QM 80/30, QM 100/3	3P	QMCOVER80/1003P	1319872	1
QM 40/3N, QM 63/3N	3P + Neutral	QMCOVER40/633P+N	1319871	1
QM 80/3, QM 100/3N	3P + Neutral	QMCOVER80/1003P+N	1319873	1

Technical data for QM Change-over and multipole switches

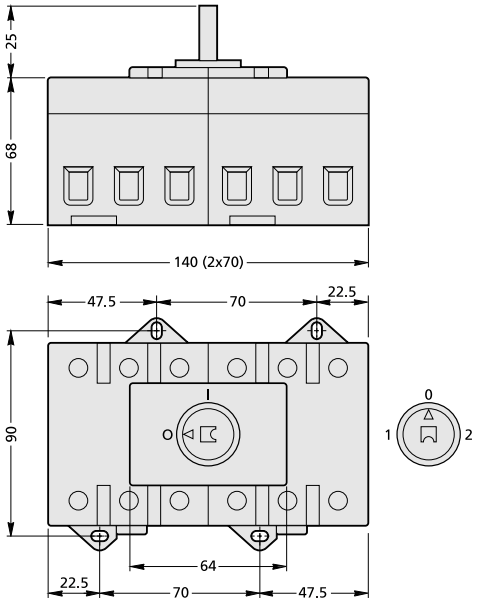
		QM 40	QM 63	QM 100
Conventional free air thermal current	I_{th}	40 A	63 A	100 A
Conventional enclosed thermal current	I_{the}	40 A	55 A	100 A
Conventional thermal current in enclosure (multipole)	I_{the}	40 A	50 A	80 A
Rated uninterrupted current	I_u	40 A	63 A	100 A
Rated operational current	U_e	690 V	690 V	690 V
Rated insulation voltage	U_i	690 V	690 V	690 V
Rated impulse withstand voltage	U_{imp}	8 kV	8 kV	8 kV
Rated operational current				
AC-21A				
At U_e = 240 V AC-21A	I_e	40 A	63 A	100 A
At U_e = 440 V AC-21A	I_e	40 A	63 A	100 A
At U_e = 500 V AC-21A	I_e	40 A	63 A	100 A
At U_e = 690 V AC-21A	I_e	40 A	63 A	100 A
AC-22A				
At U_e = 240 V AC-22A	I_e	40 A	63 A	100 A
At U_e = 440 V AC-22A	I_e	40 A	63 A	100 A
At U_e = 500 V AC-22A	I_e	40 A	63 A	100 A
At U_e = 690 V AC-22A	I_e	40 A	55 A	85 A
Rated operational current/power				
AC-23A				
At U_e = 240 V AC-23A	I_e	7.5 kW	11 kW	22 kW
At U_e = 440 V AC-23A	I_e	15 kW	22 kW	37 kW
At U_e = 500 V AC-23A	I_e	18.5 kW	30 kW	45 kW
At U_e = 690 V AC-23A	I_e	15 kW	18.5 kW	30 kW
AC-3				
At U_e = 240 V AC-3	I_e	7.5 kW	11 kW	18.5 kW
At U_e = 440 V AC-3	I_e	11 kW	18.5 kW	30 kW
At U_e = 500 V AC-3	I_e	15 kW	22 kW	37 kW
At U_e = 690 V AC-3	I_e	11 kW	15 kW	22 kW
Rated short-time withstand current	I_{cw}	0.5 kA -1 s	0.78 kA - 1 s	1.85 kA -1 s
Rated short-circuit making capacity	I_{cm}	3 kA	3 kA	3 kA
Rated conditional fuse-protected short-circuit current withstand/making	I_p (I_q)	15 kA	15 kA	15 kA
Fuse link	I_n	50 A	63 A	100 A
Switched neutral conventional free air thermal current	I_{the}	40 A	63 A	100 A
Rated operational current				
At Ue = 500 V AC-22A	I_e	40 A	63 A	100 A
Auxiliary switch				
Rated operational current				
At Ue = 380 V AC-11	I_e	3 A	3 A	3 A
At Ue = 660 V AC-11	I_e	10 A	10 A	10 A
Terminal capacities				
Copper conductor				
Solid		2.5 - 16 mm^2	2.5 - 16 mm^2	10 - 35 mm^2
Stranded		2.5 - 16 mm^2	2.5 - 16 mm^2	10 - 35 mm^2
Flexible		2.5 - 10 mm^2	2.5 - 16 mm^2	10 - 35 mm^2
Tightening torque		1.2 Nm	1.2 Nm	2.5 Nm
Pollution degree		III/3		
Protection class		IP20		
Standards		EN IEC 60947-3, EAC		

Outline drawings for QM Outline drawings for Multipole mechanisms (Dimensions are in mm) (Dimensions are in mm)

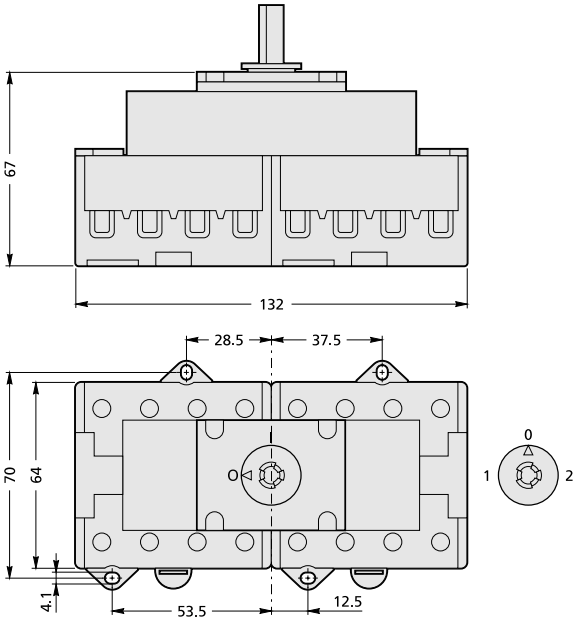
6-pole, QM63/3 and QM63/6



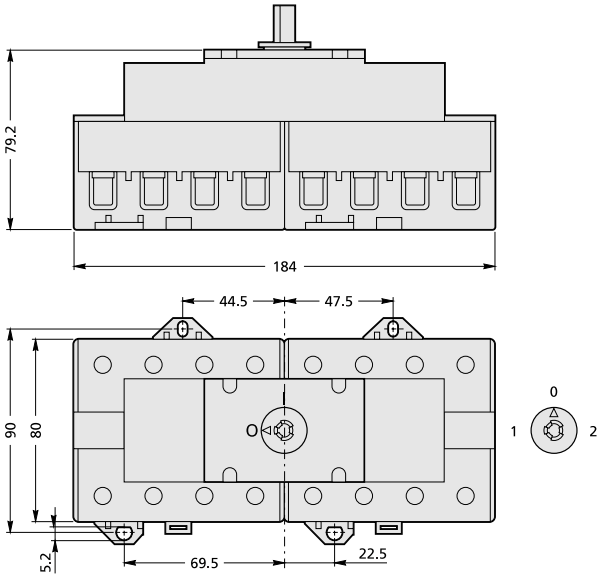
6-pole, QM100/3 and QM100/6



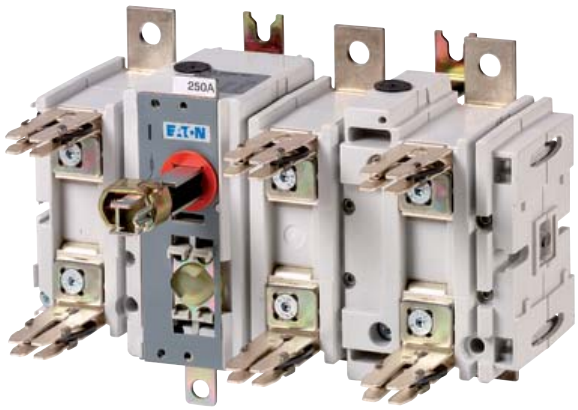
8-pole, QM40/3N, QM63/3N and QM63/6N2



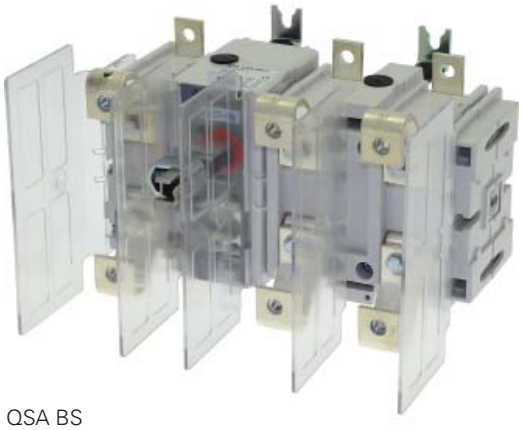
8-pole, QM100/3N and QM100/6N2



QSA Fused switch-disconnector, 40 A to 800 A, 690 V a.c.



QSA DIN



QSA BS

Description

The QSA fused switch-disconnector provide the ultimate safety in electrical protection for equipment and personnel.
The NH DIN fuse links and low voltage British Standard industrial fuse links, fitted in the QSA unit protect the equipment against overcurrents and the switch enables safe disconnection for a high number of switching operations.

Frame sizes

0, 1, 2 and 3

Standards/Approvals

- IEC 60947-3
- EAC,
- KEMA-KEUR
- Lloyd's Register

Technical data

- Voltage: 690 V ac.
- Current: 40 A to 800 A
- 3-pole and solid/switched neutral options

Recommended fuse links

- For QSA DIN: Eaton's Bussmann series low voltage NH Fuse links body size 00 to 3
- For QSA BS: Eaton's Bussmann series low voltage British Standard industrial fuse links

Features

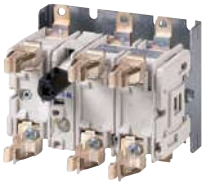
- All standard switches have a 3-pole frame
- Separate switched or bolted neutrals can be mounted to the switch on location or ordered pre-mounted
- Totally enclosed compact housing made of creepage-proof, heat resistant, insulation material
- Spring-loaded silver-plated roller contacts
- Independent manual operation
- Double break interruption
- Easy to install

QSA Fused switch-disconnector, suitable for NH DIN Fuse links, 40 A to 800 A, 690 V a.c.

QSA DIN range overview

QSA DIN	Frame size	40 A	63 A	100 A	125 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
Fused switch-disconnector	0	✓	✓									
	1		✓	✓	✓	✓						
	2						✓	✓	✓	✓		
	3									✓	✓	✓

QSA DIN Fused switch-disconnector



1320205



1318546



1318526



1318542

Thermal current I_{the}	Number of poles	Frame size	Part number	Article number	Pack qty	Compatible Eaton's Bussmann series NH Fuse body size
40 A	3P	0	QSA40N0-00/3	1320201	1	NH 000 and NH 00
40 A	3P	0	QSA40N0-00/3+P*	1320205*	1	NH 000 and NH 00
63 A	3P	0	QSA63N0-00/3	1320203	1	NH 000 and NH 00
63 A	3P	0	QSA63N0-00/3+P*	1320207*	1	NH 000 and NH 00
63 A	3P + solid neutral	0	QSA63N0-00/1	1320297	1	NH 000 and NH 00
63 A	3P + switched neutral	0	QSA63N0-00/3N	1320298	1	NH 000 and NH 00
63 A	3P	1	QSA63N1-00/3	1318027	1	NH 000 and NH 00
100 A	3P	1	QSA100N1-00/3	1318546	1	NH 000 and NH 00
100 A	3P + solid neutral	1	QSA100N1-00/1	1318550	1	NH 000 and NH 00
100 A	3P + switched neutral	1	QSA100N1-00/3N	1318551	1	NH 000 and NH 00
125 A	3P	1	QSA125N1-00/3	1318030	1	NH 000 and NH 00
160 A	3P	1	QSA160N1-00/3	1318033	1	NH 000 and NH 00
160 A	3P + solid neutral	1	QSA160N1-00/1	1318552	1	NH 000 and NH 00
160 A	3P + switched neutral	1	QSA160N1-00/3N	1318553	1	NH 000 and NH 00
200 A	3P	2	QSA200N-2/3	1318547	1	NH 1 and 2
250 A	3P	2	QSA250N-2/3	1318526	1	NH 1 and 2
250 A	3P + solid neutral	2	QSA250N-2/1	1318554	1	NH 1 and 2
250 A	3P + switched neutral	2	QSA250N-2/3N	1318555	1	NH 1 and 2
315 A	3P	2	QSA315N-2/3	1318548	1	NH 1 and 2
400 A	3P	2	QSA400N-2/3**	1318533**	1	NH 1 and 2
400 A	3P + solid neutral	2	QSA400N-2/1**	1318612**	1	NH 1 and 2
400 A	3P + switched neutral	2	QSA400N-2/3N**	1318614**	1	NH 1 and 2
400 A	3P	3	QSA400-3/3	1318549	1	NH 3
630 A	3P	3	QSA630-3/3	1318542	1	NH 3
630 A	3P + solid neutral	3	QSA630-3/1	1318694	1	NH 3
630 A	3P + switched neutral	3	QSA630-3/3N	1318699	1	NH 3
800 A	3P	3	QSA800-3/3**	1318543**	1	NH 3

* Fused switch-disconnector with box terminal clamps

** Thermal current rating only applicable when utilised in a ventilated enclosure

See compatible Eaton's Bussmann series NH fuse links pages 76 and 77

Fused switch-disconnectors, 40 A to 800 A, 690 V a.c.

QSA Fused switch-disconnector, suitable for British Standard industrial fuse links, 40 A to 800 A, 690 V a.c.

QSA BS range overview

QSA DIN	Frame size	40 A	63 A	100 A	125 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
Fused switch-disconnector	0	✓	✓									
	1		✓	✓	✓	✓						
	2						✓	✓	✓	✓		
	3									✓	✓	✓

7

QSA BS Fused switch-disconnectors



1319065

Thermal current I_{the}	Number of poles	Frame size	Part number	Article number	Pack qty	Compatible fuse links BS reference	Compatible Eaton's Bussmann series fuse links
40 A	3P	0	QSA40N0-A3/3	1320200	1	A3	BAO, TIS
63 A	3P	0	QSA63N0-A3/3	1320202	1	A3	
40 A	3P	0	QSA40N0-A3/3+P*	1320204*	1	A3	
63 A	3P	0	QSA63N0-A3/3+P*	1320206*	1	A3	
63 A	3P	1	QSA63N1-A3/3	1318011	1	A3	BAO, TIS
100 A	3P	1	QSA100N1-A4/3	1318016	1	A4	CEO, TCP
125 A	3P	1	QSA125N1-B2/3	1318020	1	B1 and B2	CD, DD, TC, TF
160 A	3P	1	QSA160N1-B2/3	1318023	1	B1 and B2	
200 A	3P	2	QSA200N-B2/3	1319065	1	B1 to B4	CD, DD, ED, TC, TF, TKF, TMF
250 A	3P	2	QSA250N-B4/3	1319074	1	B1 to B4	
315 A	3P	2	QSA315N-B4/3	1319095	1	B1 to B4	
400 A	3P	2	QSA400N-B4/3**	1319103**	1	B1 to B4	
400 A	3P	3	QSA400-C3/3	1318537	1	C1 to C3	EF, FF, GF, TTM
630 A	3P	3	QSA630-C3/3	1318544	1	C1 to C3	
800 A	3P	3	QSA800-C3/3**	1319175**	1	C1 to C3	

* Fused switch-disconnector with box terminal clamps

** Thermal current rating only applicable when utilised in a ventilated enclosure

See details on compatible Eaton's Bussmann series British Standard fuse links page 78 to 80

Handles and shafts for QSA (Handles and shaft are to be ordered separately)

Handles mounting types overview

Frame size	K Type handles	A Type handles			C Type handles		D/P Type handles			D/C Type handles		
		Blue	Red	Grey	Blue	Red	Blue	Red/ Yellow	Grey	Blue	Red/ Yellow	Grey
0	K1	✓	✓	✓	✓	✓	✓	✓	✓			
1	K2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	K3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	K4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

A Type: Handle mounted directly on switch

C Type: Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

D/C Type: Handle with cylinder lock for mounting on hinged door, supplied with two keys, with interlock function

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch



K1 A handle
1818001



K2 A handle
1818005



K3 A handle
1818202



K4 A handle
1818010



Shafts

QSA Type	Frame size	A Type handles – Handle colours: Blue	Red	Grey	Metal shafts – Shaft mm□	Length of shaft: 115 mm	135 mm	140 mm	180 mm	300 mm	600 mm	Pack qty
QSA40N0	0	K1AB 1818001	K1AR 1818002	K1AG 1818200	6 x 6				4K6180MMK1/2S 1319830	4K6300MMK1/2S 1319831	4K6600MMK1/2S 1319832	1
QSA63N0	0											
QSA63N1	1	K2AB 1818005	K2AR 1818006	K2AG 1818201	8 x 8	4K8115MMK2 1319303		4K8140MMK2 1319306	4K8180MMK2 1319307	4K8300MMK2 1319311	4K8600MMK2 1319301	1
QSA100N1	1											
QSA125N1	1											
QSA160N1	1											
QSA200N	2	K3AB 1818110	K3AR 1818111	K3AG 1818202	10 x 10		4K10135MMK3 1319314		4K10180MMK3 1319315	4K10300MMK2 1319319	4K10600MMK2 1319322	1
QSA250N	2											
QSA315N	2											
QSA400N	2											
QSA400	3	K4AB 1818009	K4AR 1818010	K4AG 1818203	12 x 12					4K12300MMK4 1319326	4K12600MMK4 1319329	1
QSA630	3											
QSA800	3											

Handles and shafts for QSA (Handles and shaft are to be ordered separately)

C Type handles

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range



K1 C handle
1818016



K2 C handle
1818019



K3 C handle
1818112



K4 C handle
1818023



Shafts

C Type handles **Metal shafts**

QSA	Frame size	Handle colour: Blue	Handle colour: Red/yellow	Shaft mm□	Length of shaft: 115 mm	135 mm	140 mm	180 mm	300 mm	600 mm	Pack qty
QSA40N0	0	K1CB 1818015	K1CR 1818016	6 x 6				4K6180MMK1/2S 1319830	4K6300MMK1/2S 1319831	4K6600MMK1/2S 1319832	1
QSA63N0	0										
QSA63N1	1	K2CB 1818019	K2CR 1818020	8 x 8	4K8115MMK2 1319303		4K8140MMK2 1319306	4K8180MMK2 1319307	4K8300MMK2 1319311	4K8600MMK2 1319301	1
QSA100N1	1										
QSA125N1	1										
QSA160N1	1										
QSA200N	2	K3CB 1818068	K3CR 1818112	10 x 10		4K10135MMK3 1319314		4K10180MMK3 1319315	4K10300MMK2 1319319	4K10600MMK2 1319322	1
QSA250N	2										
QSA315N	2										
QSA400N	2										
QSA400	3	K4CB 1818023	K4CR 1818024	12 x 12					4K12300MMK4 1319326	4K12600MMK4 1319329	1
QSA630	3										
QSA800	3										

D/P Type handles

Padlockable for mounting on hinged door, with interlock function



K1 D/P handle
1818029



K2 D/P handle
1818036



K3 D/P handle
1818113



K4 D/P handle
1818052



Shafts

D/P Type handles **Metal shafts**

QSA	Frame size	Handle colour: Blue	Handle colour: Red/yellow	Handle colour: Grey	Shaft mm□	Length of shaft: 115 mm	135 mm	140 mm	180 mm	300 mm	600 mm	Pack qty
QSA40N0	0	K1DB/P 1818029	K1DR/P 1818030	K1DG/P 1818031	6 x 6				4K6180MMK1/2S 1319830	4K6300MMK1/2S 1319831	4K6600MMK1/2S 1319832	1
QSA63N0	0											
QSA63N1	1	K2DB/P 1818035	K2DR/P 1818036	K2DG/P 1818037	8 x 8	4K8115MMK2 1319303		4K8140MMK2 1319306	4K8180MMK2 1319307	4K8300MMK2 1319311	4K8600MMK2 1319301	1
QSA100N1	1											
QSA125N1	1											
QSA160N1	1											
QSA200N	2	K3DB/P 1818113	K3DR/P 1818096	K3DG/P 1818069	10 x 10		4K10135MMK3 1319314		4K10180MMK3 1319315	4K10300MMK2 1319319	4K10600MMK2 1319322	1
QSA250N	2											
QSA315N	2											
QSA400N	2											
QSA400	3	K4DB/P 1818050	K4DR/P 1818051	K4DG/P 1818052	12 x 12					4K12300MMK4 1319326	4K12600MMK4 1319329	1
QSA630	3											
QSA800	3											

Handles and shafts for QSA (Handles and shaft are to be ordered separately)

D/C Type handles

With cylinder lock for mounting on hinged door, supplied with two keys, with interlock function



K2 D/C handle
1818041



K3 D/C handle
1818097



K4 D/C handle
1818055



Shafts

		D/C Type handles			Metal shafts						
		Handle Type				Length of shaft						
QSA	Frame size	Blue	Red/ yellow	Grey	Shaft mm□	115 mm	135 mm	140 mm	180 mm	300 mm	600 mm	Pack qty
QSA63N1	1	K2DB/C 1818041	K2DR/C 1818042	K2DG/C 1818043	8 x 8	4K8115MMK2 1319303		4K8140MMK2 1319306	4K8180MMK2 1319307	4K8300MMK2 1319311	4K8600MMK2 1319301	1
QSA100N1	1											
QSA125N1	1											
QSA160N1	1											
QSA200N	2	K3DB/C 1818114	K3DR/C 1818097	K3DG/C 1818070	10 x 10		4K10135MMK3 1319314		4K10180MMK3 1319315	4K10300MMK2 1319319	4K10600MMK2 1319322	1
QSA250N	2											
QSA315N	2											
QSA400N	2											
QSA400	3	K4DB/C 1818053	K4DR/C 1818054	K4DG/C 1818055	12 x 12					4K12300MMK4 1319326	4K12600MMK4 1319329	1
QSA630	3											
QSA800	3											

Accessories for QSA

Conversion kit for locking the D Type handles in both On and Off position

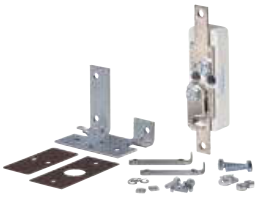


1818103

QSA	Frame size	DIN/BS	Part number	Article number	Pack qty
QSA40N0	0	✓	ADAPTORPADLOCK-K1	1818103	1
QSA63N0	0	✓			1
QSA63N1	1	✓	ADAPTORPADLOCK-K2	1818104	1
QSA100N1	1	✓			1
QSA125N1	1	✓			1
QSA160N1	1	✓			1
QSA200N	2	✓	ADAPTORPADLOCK-K3	1818105	1
QSA250N	2	✓			1
QSA315N	2	✓			1
QSA400N	2	✓			1
QSA400	3	✓	ADAPTORPADLOCK-K4	1818106	1
QSA630	3	✓			1
QSA800	3	✓			1

Accessories for QSA

Solid neutrals, side mounted



1319472

QSA Type	Frame size	DIN/BS	Part number	Article number	Pack qty
QSA40N0	0	✓	QSAN40/63A	1319460	1
QSA63N0	0	✓			1
QSA63N1	1	✓			1
QSA100N1	1	✓	QSAN100/125A	1319466	1
QSA125N1	1	✓			1
QSA160N1	1	✓	QSAN160A	1319472	1
QSA200N	2	✓	QSAN160/200A	1319473	1
QSA250N	2	✓			1
QSA315N	2	✓	QSAN250/315/400A	1319480	1
QSA400N	2	✓			1
QSA400	3	✓	QSAN400/630/800A	1319486	1
QSA630	3	✓			1
QSA800	3	✓			1

Switched neutrals, side mounted



1319482

QSA Type	Frame size	DIN/BS	Part number	Article number	Pack qty
QSA40N0	0	✓	QSANS40/63A	1319462	1
QSA63N0	0	✓			1
QSA63N1	1	✓			1
QSA100N1	1	✓	QSANS100/125A	1319467	1
QSA125N1	1	✓			1
QSA160N1	1	✓	QSANS160A	1319474	1
QSA200N	2	✓	QSANS160/200A	1319476	1
QSA250N	2	✓			1
QSA315N	2	✓	QSANS250/315/400A	1319482	1
QSA400N	2	✓			1
QSA400	3	✓	QSANS400/630/800A	1319662	1
QSA630	3	✓			1
QSA800	3	✓			1

Accessories for QSA

Auxiliary contact set

Auxiliary contact 1 NO + 1 NC



6028293

QSA Type	Frame size	DIN/BS	Part number	Article number	Pack qty
QSA40N0	0	✓	AUX1NO+1NC-BOX012	6028293	1
QSA63N0	0	✓			1
QSA63N1	1	✓			1
QSA100N1	1	✓			1
QSA125N1	1	✓			1
QSA160N1	1	✓			1
QSA200N	2	✓			1
QSA250N	2	✓			1
QSA315N	2	✓			1
QSA400N	2	✓			1
QSA400	3	✓	AUX1NO+1NC-BOX3	6101137	1
QSA630	3	✓			1
QSA800	3	✓			1

Replacement adaptors available Part number AUXADAPTERDMV/QSA / 6098593

1-pole transparent terminal covers

Terminal cover for cable lugs on connection terminals



1319411

QSA Type	Frame size	DIN	BS	Number of poles	Bolt Type	Part number	Article number	Pack qty
QSA40N0	0	✓	✓	1P	M6	QSACOVER1PM6	1319409	1
QSA63N0	0	✓	✓	1P	M6			1
QSA100N1	1	✓	✓	1P	M6			1
QSA125N1	1	✓	✓	1P	M6			1
QSA160N1	1	✓	✓	1P	M8	QSACOVER1PM8	1319411	1
QSA200N (BS)	2		✓	1P	M8			1
QSA200N (DIN)	2	✓		1P	M10	QSACOVER1PM10	1319413	1
QSA250N	2	✓	✓	1P	M10			1
QSA315N	2	✓	✓	1P	M10			1
QSA400N	2	✓	✓	1P	M10			1
QSA400	3	✓	✓	1P	M12	QSACOVER1PM12	1319415	1
QSA630	3	✓	✓	1P	M12			1
QSA800	3	✓	✓	1P	M12			1

3-pole transparent terminal covers

For cable lugs on connection terminals, suitable for QSA fused switch-disconnector frame sizes 0, 1 and 2.

1319432

QSA Type	Frame size	DIN/BS	Number of poles	Part number	Article number	Pack qty
QSA40N0	0	✓	3P	QSATCOVERBOX0	1320239	1
QSA63N0	0	✓	3P			1
QSA63N1	1	✓	3P	QSATCOVERBOX1	1319432	1
QSA100N1	1	✓	3P			1
QSA125N1	1	✓	3P			1
QSA160N1	1	✓	3P			1
QSA200N	2	✓	3P	QSATCOVERBOX2	1319418	1
QSA250N	2	✓	3P			1
QSA315N	2	✓	3P			1
QSA400N	2	✓	3P			1

Accessories for QSA

Transparent front cover

Used to shield live parts at the front of the QSA fused switch-disconnector



1319426

QSA Type	Frame size	DIN	BS	Part number	Article number	Pack qty
QSA40N0	0	✓	✓	QSAFCOVER40N0-63N0	1320237	1
QSA63N0	0	✓	✓			1
QSA63N1	1	✓	✓	QSAFCOVER63N1-125N1	1319435	1
QSA100N1 (DIN)	1	✓				1
QSA125N1 (DIN)	1	✓				1
QSA160N1 (DIN)	1	✓		QSAFCOVER160N1	1318476	1
QSA100N1 (BS)	1		✓	QSAFCOVER160N1-A4/3	1319423	1
QSA125N1 (BS)	1		✓	QSAFCOVER125N1-160N1-B2/3	1319438	1
QSA160N1 (BS)	1		✓			1
QSA200N	2	✓	✓	QSAFCOVER160N-400N	1319429	1
QSA250N	2	✓	✓			1
QSA315N	2	✓	✓			1
QSA400N	2	✓	✓			1
QSA400	3	✓	✓	QSAFCOVER400-800	1319426	1
QSA630	3	✓	✓			1
QSA800	3	✓	✓			1

1-pole rear cover

Used to shield live parts at the back of the QSA fused switch-disconnector



1319439

QSA Type	Frame size	DIN	BS	Number of poles	Part number	Article number	Pack qty
QSA63N1	1	✓	✓	1P	QSARCOVER1P63-160	1319439	1
QSA100N1 (BS)	1		✓	1P			1
QSA125N1	1	✓	✓	1P			1
QSA160N1	1	✓	✓	1P			1
QSA200N	2	✓	✓	1P	QSARCOVER1P160-400	1319441	1
QSA250N	2	✓	✓	1P			1
QSA315N	2	✓	✓	1P			1
QSA400N	2	✓	✓	1P			1

Rear cover for QSA frame size 3 only

Used to shield live parts at the back of the QSA fused switch-disconnector frame size 3



1319417

QSA Type	Frame size	DIN	BS	Number of poles	Part number	Article number	Pack qty
QSA400	3	✓	✓	1P	QSARCOVER400-800-C3/3	1319417	1
QSA630	3	✓	✓	1P			1
QSA800	3 (BS)		✓	1P			1

Accessories for QSA

Coupling links for extension of universal shafts



1319833



1319336

QSA Type	Frame size	DIN/BS	Shaft mm□	Part number	Article number	Pack qty
QSA40N0	0	✓	6 x 6	COUP6X6MM	1319833	1
QSA63N0	0	✓	6 x 6			1
QSA63N1	1	✓	8 x 8	COUP8X8MM	1319332	1
QSA100N1	1	✓	8 x 8			1
QSA125N1	1	✓	8 x 8			1
QSA160N1	1	✓	8 x 8			1
QSA200N	2	✓	10 x 10	COUP10X10MM	1319334	1
QSA250N	2	✓	10 x 10			1
QSA315N	2	✓	10 x 10			1
QSA400N	2	✓	10 x 10			1
QSA400	3	✓	12 x 12	COUP12X12MM	1319336	1
QSA630	3	✓	12 x 12			1
QSA800	3	✓	12 x 12			1

Coupling links for converting shafts sizes



1319398

Shaft mm□	Part number	Article number	Pack qty
From 10 x 10 mm to 12 x 12 mm	4K10/4K12	1319398	1
From 12 x 12 mm to 14 x 14 mm	4K12/4K14	1318685	1

Technical data for QSA

QSA 40 - 63 A, DIN or BS fuse links, frame size 0

		QSA 40N0		QSA 63N0	
Conventional free air thermal current	I_{th}	40 A		63 A	
Conventional enclosed thermal current	I_{the}	40 A		63 A	
Rated uniterrupted current	I_u	40 A		63 A	
Rated operational voltage	U_e	690 V		690 V	
Rated insulation voltage	U_i	800 V		800 V	
Rated impulse withstand voltage	U_{imp}	8 kV 6 kV with switched neutral		8 kV 6 kV with switched neutral	
Rated frequency		50 Hz		50 Hz	
Storage temperature		-30°C...+80°C		-30°C...+80°C	
Rated operational current					
AC-21A					
At U_e = 415 V AC-21A	I_e	40 A		63 A	
At U_e = 500 V AC-21A	I_e	40 A		63 A	
At U_e = 690 V AC-21A	I_e	40 A		63 A	
AC-22A					
At U_e = 415 V AC-22A	I_e	40 A		63 A	
At U_e = 500 V AC-22A	I_e	40 A		63 A	
At U_e = 690 V AC-22A	I_e	40 A		63 A	
AC-23A					
At U_e = 415 V AC-23A	I_e	40 A		63 A	
At U_e = 500 V AC-23A	I_e	40 A		63 A	
At U_e = 690 V AC-23A	I_e	40 A		63 A	
Rated operational power					
At U_e = 415 V AC-23A		22 kW		30 kW	
At U_e = 500 V AC-23A		25 kW		45 kW	
At U_e = 690 V AC-23A		37 kW		59 kW	
Rated conditional short-circuit current	I_p (I_q)	690 V: 50 kA	415 V: 100 kA	690 V: 50 kA	415 V: 100 kA
Cut-off current	max.	690 V : 14.5 kA	440 V: 11 kA	690 V: 14.5 kA	440 V: 11 kA
Joule integral	max.	690 V: 140 kA^2s	440 V: 18.4 kA^2s	690 V: 140 kA^2s	440 V: 18.4 kA^2s
Fuse-link max	I_n	690 V: 125 A	440 V: 63 A	690 V: 125 A	440 V: 63 A
Compatible fuse links		NH 000, NH 00 and BS Ref A3		NH 000, NH 00 and BS Ref A3	
Power dissipation per pole	P_{vid}	1.5 W		2.3 W	
Pollution degree		III/3		III/3	
Protection class		IP00 without terminal cover IP20 with terminal cover			
Standards		EN-IEC 60947-3, EAC			
Certification		KEMA-KEUR, Lloyd's Register			

Technical data for QSA

QSA 63 - 160 A, DIN or BS fuse links, frame size 1

		QSA 63N1	QSA 100N1	QSA 125N1	QSA 160N1
Conventional free air thermal current	I_{th}	63 A	100 A	125 A	160 A
Conventional enclosed thermal current	I_{the}	63 A	100 A	125 A	160 A
Rated uniterrupted current	I_u	63 A	100 A	125 A	160 A
Rated operational voltage	U_e	690 V	690 V	690 V	690 V
Rated insulation voltage	U_i	1000 V	1000 V	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	8 kV 6 kV with switched neutral	8 kV 6 kV with switched neutral	8 kV 6 kV with switched neutral	8 kV 6 kV with switched neutral
Rated frequency		50 Hz	50 Hz	50 Hz	50 Hz
Storage temperature		-30°C...+80°C	-30°C...+80°C	-30°C...+80°C	-30°C...+80°C
Rated operational current					
AC-21A					
At U_e = 415 V AC-21A	I_e	63 A	100 A	125 A	160 A
At U_e = 500 V AC-21A	I_e	63 A	100 A	125 A	160 A
At U_e = 690 V AC-21A	I_e	63 A	100 A	125 A	160 A
AC-22A					
At U_e = 415 V AC-22A	I_e	63 A	100 A	125 A	160 A
At U_e = 500 V AC-22A	I_e	63 A	100 A	125 A	160 A
At U_e = 690 V AC-22A	I_e	63 A	100 A	125 A	160 A
AC-23A					
At U_e = 415 V AC-23A	I_e	63 A	100 A	125 A	160 A
At U_e = 500 V AC-23A	I_e	63 A	100 A	125 A	160 A
At U_e = 690 V AC-23A	I_e	63 A	100 A	125 A	160 A
Rated operational power					
At U_e = 415 V AC-23A		30 kW	55 kW	59 kW	90 kW
At U_e = 500 V AC-23A		45 kW	59 kW	80 kW	110 kW
At U_e = 690 V AC-23A		59 kW	90 kW	110 kW	147 kW
Rated conditional short-circuit current	I_p (I_q)	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA
Cut-off current	max.	690 V: 27 kA 440 V: 23 kA	690 V: 27 kA 440 V: 23 kA	690 V: 27 kA 440 V: 23 kA	690 V: 27 kA 440 V: 23 kA
Joule integral	max.	690 V: 820 kA^2s 440 V: 143 kA^2s	690 V: 140 kA^2s 440 V: 18.4 kA^2s	690 V: 820 kA^2s 440 V: 143 kA^2s	690 V: 140 kA^2s 440 V: 18.4 kA^2s
Fuse-link max	I_n	690 V: 315 A 440 V: 160 A	690 V: 315 A 440 V: 160 A	690 V: 315 A 440 V: 160 A	690 V: 315 A 440 V: 160 A
Compatible fuse links		NH00 BS Ref A3	NH 00 BS Ref A4 max. ø 30mm	NH 00 BS Ref B1 and B2	NH 00 BS ref B1
Power dissipation per pole	P_{vid}	2 W	6 W	9 W	10 W
Pollution degree		III/3	III/3	III/3	III/3
Protection class		IP00 without terminal cover IP20 with terminal cover			
Standards		EN-IEC 60947-3, EAC			
Certification		KEMA-KEUR, Lloyd's Register			

Technical data for QSA

QSA 200 - 400 A, DIN or BS fuse links, frame size 2

		QSA 200N	QSA 250N	QSA 315N	QSA 400N
Conventional free air thermal current	I_{th}	200 A	250 A	315 A	400 A
Conventional enclosed thermal current	I_{the}	200 A	250 A	315 A	355 A*
Rated uniterrupted current	I_u	200 A	250 A	315 A	355 A / 400 A
Rated operational voltage	U_e	690 V	690 V	690 V	690 V
Rated insulation voltage	U_i	1000 V	1000 V	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	12 kV 8 kV with neutral	12 kV 8 kV with neutral	12 kV 8 kV with neutral	12 kV 8 kV with neutral
Rated frequency		50 Hz	50 Hz	50 Hz	50 Hz
Storage temperature		-30°C...+80°C	-30°C...+80°C	-30°C...+80°C	-30°C...+80°C
Rated operational current					
AC-21A					
At U_e = 415 V AC-21A	I_e	200 A	250 A	315 A	400 A
At U_e = 500 V AC-21A	I_e	200 A	250 A	315 A	400 A
At U_e = 690 V AC-21A	I_e	200 A	250 A	315 A	400 A
AC-22A					
At U_e = 415 V AC-22A	I_e	200 A	250 A	315 A	400 A
At U_e = 500 V AC-22A	I_e	200 A	250 A	315 A	400 A
At U_e = 690 V AC-22A	I_e	200 A	250 A	315 A	400 A
AC-23A					
At U_e = 415 V AC-23A	I_e	200 A	250 A	315 A	400 A
At U_e = 500 V AC-23A	I_e	200 A	250 A	315 A	400 A
At U_e = 690 V AC-23A	I_e	200 A	250 A	315 A	400 A
Rated operational power					
At U_e = 415 V AC-23A		110 kW	147 kW	184 kW	220 kW
At U_e = 500 V AC-23A		140 kW	160 kW	220 kW	257 kW
At U_e = 690 V AC-23A		184 kW	220 kW	295 kW	375 kW
Rated conditional short-circuit current	I_p (I_q)	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA
Cut-off current	max.	690 V: 57 kA 440 V: 43 kA	690 V: 57 kA 440 V: 43 kA	690 V: 57 kA 440 V: 43 kA	690 V: 57 kA 440 V: 43 kA
Joule integral	max.	690 V: 13000 kA^2s 440 V: 986 kA^2s	690 V: 13000 kA^2s 440 V: 986 kA^2s	690 V: 13000 kA^2s 440 V: 986 kA^2s	690 V: 13000 kA^2s 440 V: 986 kA^2s
Fuse-link max	I_n	690 V: 630 A 440 V: 400 A	690 V: 630 A 440 V: 400 A	690 V: 630 A 440 V: 400 A	690 V: 630 A 440 V: 400 A
Compatible fuse links		NH 1 and NH 2 BS Ref B1 and B2	NH 1 and NH 2 BS Ref B1 to B4	NH 1 and 2 BS Ref B1 to B4	NH 1 and 2 BS Ref B1 to B4
Power dissipation per pole	P_{vid}	10 W	12 W	18 W	28 W
Pollution degree		III/3	III/3	III/3	III/3
Protection class		IP00 without terminal cover IP20 with terminal cover			
Standards		EN-IEC 60947-3, EAC			
Certification		KEMA-KEUR, Lloyd's Register			

* 400 A thermal current rating only applicable when utilised in a ventilated enclosure

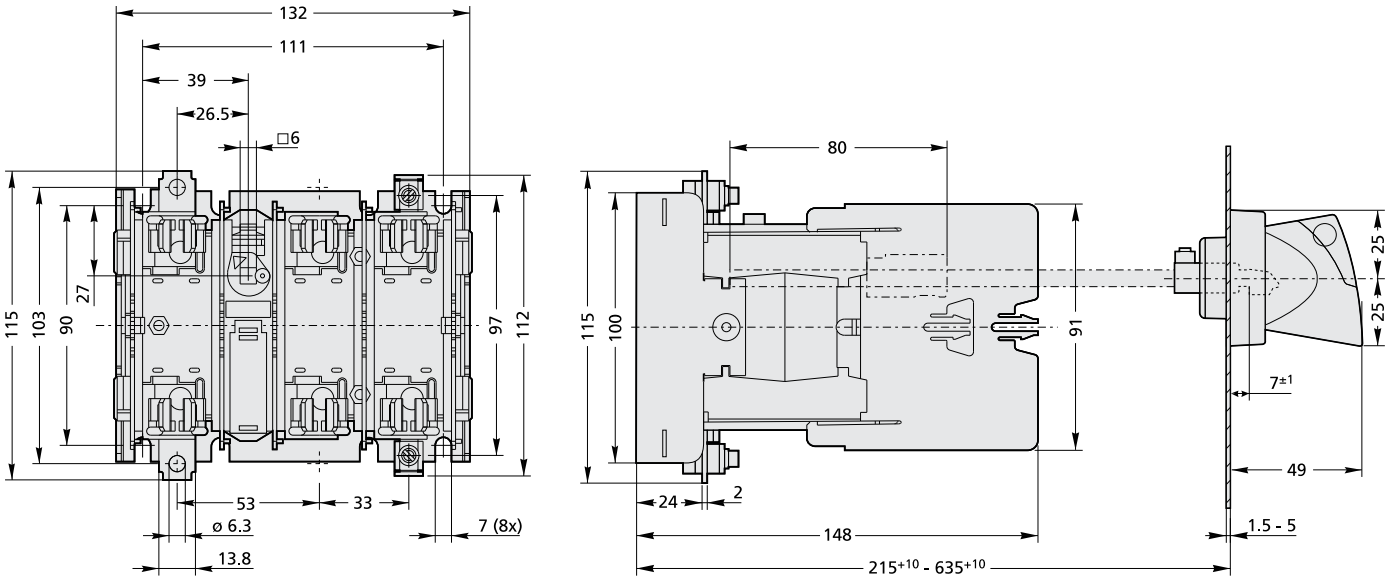
Technical data for QSA

QSA 400 - 800 A, DIN or BS fuse links, frame size 3

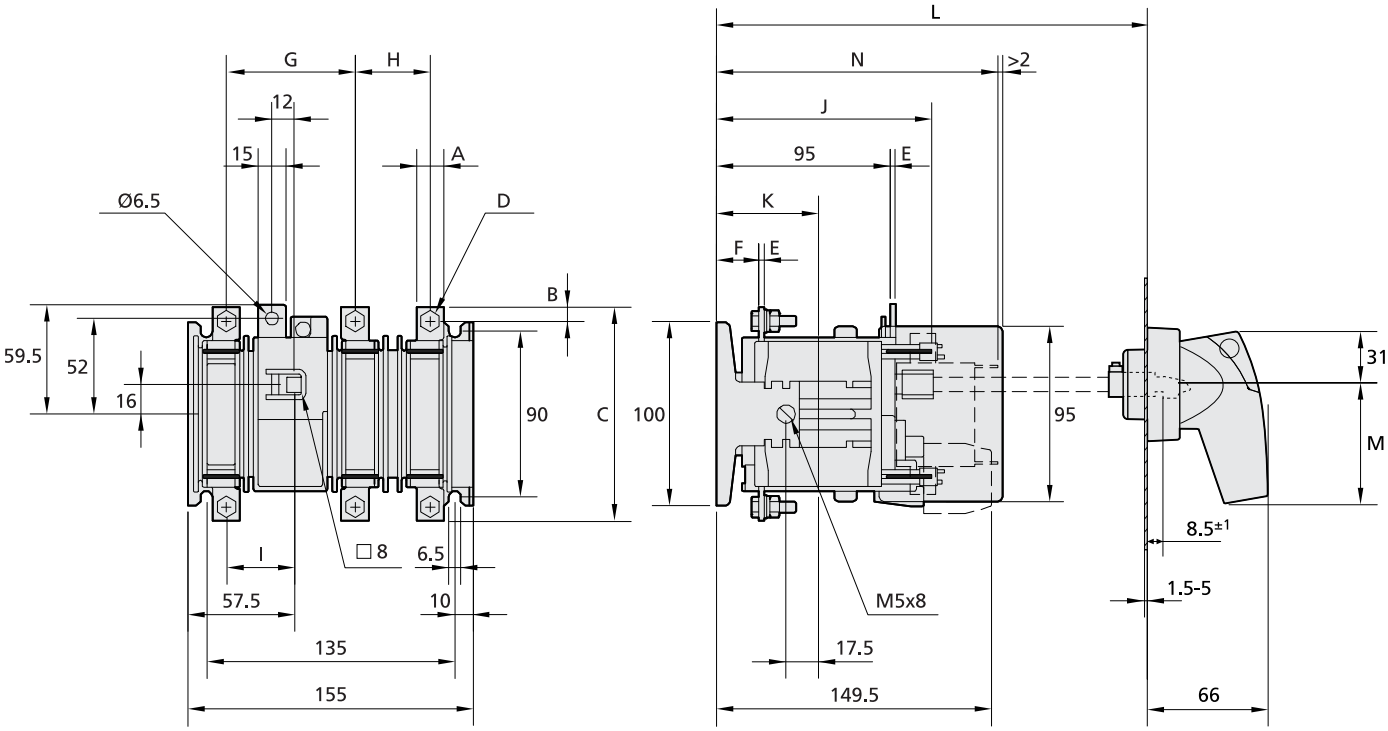
		QSA 400	QSA 630	QSA 800
Conventional free air thermal current	I_{th}	400 A	630 A	800 A
Conventional enclosed thermal current	I_{the}	400 A	630 A	800 A
Rated uniterrupted current	I_u	400 A	630 A	800 A
Rated operational voltage	U_e	690 V	690 V	690 V
Rated insulation voltage	U_i	1000 V	1000 V	1000 V
Rated impulse withstand voltage	U_{imp}	12 kV	12 kV	12 kV
Rated impulse withstand voltage	U_{imp}	12 kV 8 kV with neutral	12 kV 8 kV with neutral	12 kV 8 kV with neutral
Rated frequency		50 Hz	50 Hz	50 Hz
Storage temperature		-30°c ...+80°C	-30°c ...+80°C	-30°c ...+80°C
Rated operational current				
AC-21A				
At U_e = 415 V AC-21A	I_e	400 A	630 A	800 A
At U_e = 500 V AC-21A	I_e	400 A	630 A	800 A
At U_e = 690 V AC-21A	I_e	400 A	630 A	800 A
AC-22A				
At U_e = 415 V AC-22A	I_e	400 A	630 A	800 A
At U_e = 500 V AC-22A	I_e	400 A	630 A	800 A
At U_e = 690 V AC-22A	I_e	400 A	630 A	800 A
AC-23A				
At U_e = 415 V AC-23A	I_e	400 A	630 A	800 A
At U_e = 500 V AC-23A	I_e	400 A	630 A	800 A
At U_e = 690 V AC-23A	I_e	400 A	630 A	800 A
Rated operational power				
At U_e = 415 V AC-23A		220 kW	375 kW	500 kW
At U_e = 500 V AC-23A		220 kW	375 kW	500 kW
At U_e = 690 V AC-23A		220 kW	375 kW	500 kW
Rated conditional short-circuit current	$I_p(I_q)$	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA	690 V: 50 kA 415 V: 100 kA
Cut-off current	max.	690 V: 64 kA 440 V: 62.5 kA	690 V: 64 kA 440 V: 62.5 kA	690 V: 64 kA 440 V: 62.5 kA
Joule integral	max.	690 V: 13000 kA^2s 440 V: 3700 kA^2s	690 V: 13000 kA^2s 440 V: 3700 kA^2s	690 V: 13000 kA^2s 440 V: 3700 kA^2s
Fuse-link max	I_n	690 V: 800 A 440 V: 630 A	690 V: 800 A 440 V: 630 A	690 V: 800 A 440 V: 630 A
Compatible fuse links		NH 3 BS Ref C1 and C3	NH 3 BS Ref C1 and C3	NH 3 BS Ref C1 and C3
Power dissipation per pole	P_{vid}	28 W	28 W	58 W
Pollution degree		III/3	III/3	III/3
Protection class		IP00 without terminal cover IP20 with terminal cover		
Standards		EN-IEC 60947-3, EAC		
Certification		KEMA-KEUR, Lloyd's Register		

Outline drawings for QSA (Dimensions are in mm)

DIN QSA 40 A and 63 A - Frame size 0



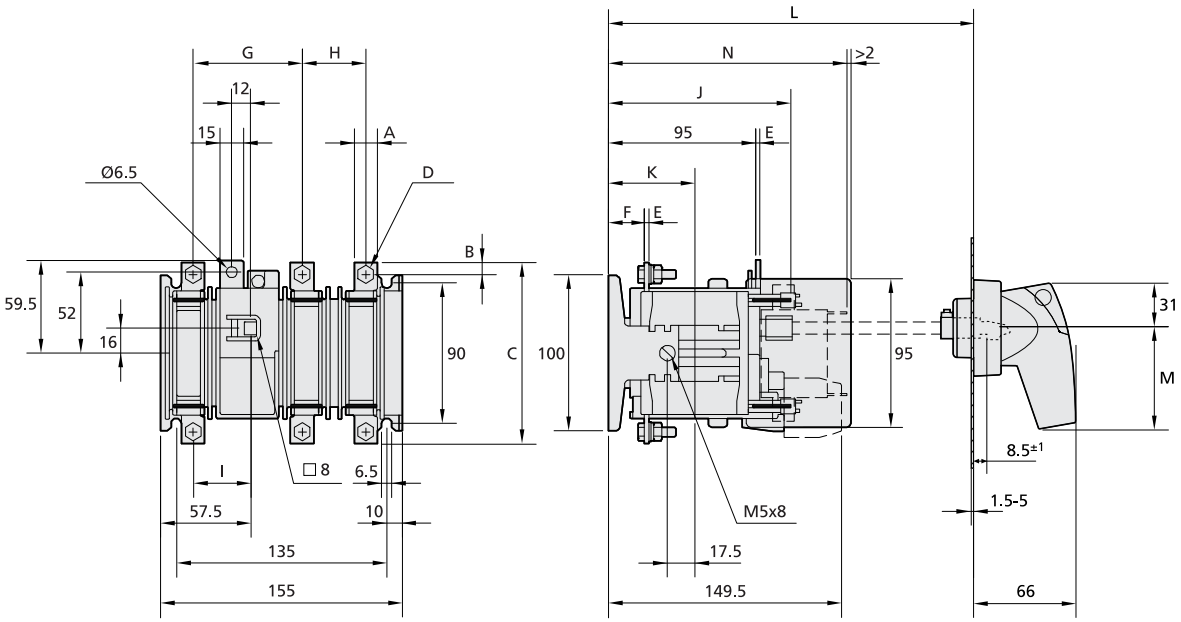
DIN QSA 63 A to 160 A - Frame size 1



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
QSA 63N1-00	12	6	100	M5	2	24	72	38.5	38	118	55.5	200+10 - 620+10	62	155.5
QSA 100N1-00	15	7.5	116	M6	3	23	70	40.5	37	118	55.5	200+10 - 620+10	62	155.5
QSA 125N1-00	15	7.5	116	M8	3	23	70	40.5	37	118	55.5	200+10 - 620+10	62	155.5
QSA 160N1-00	20	10	127	M8	3	23	65	45.5	35	118	55.5	200+10 - 620+10	62	163

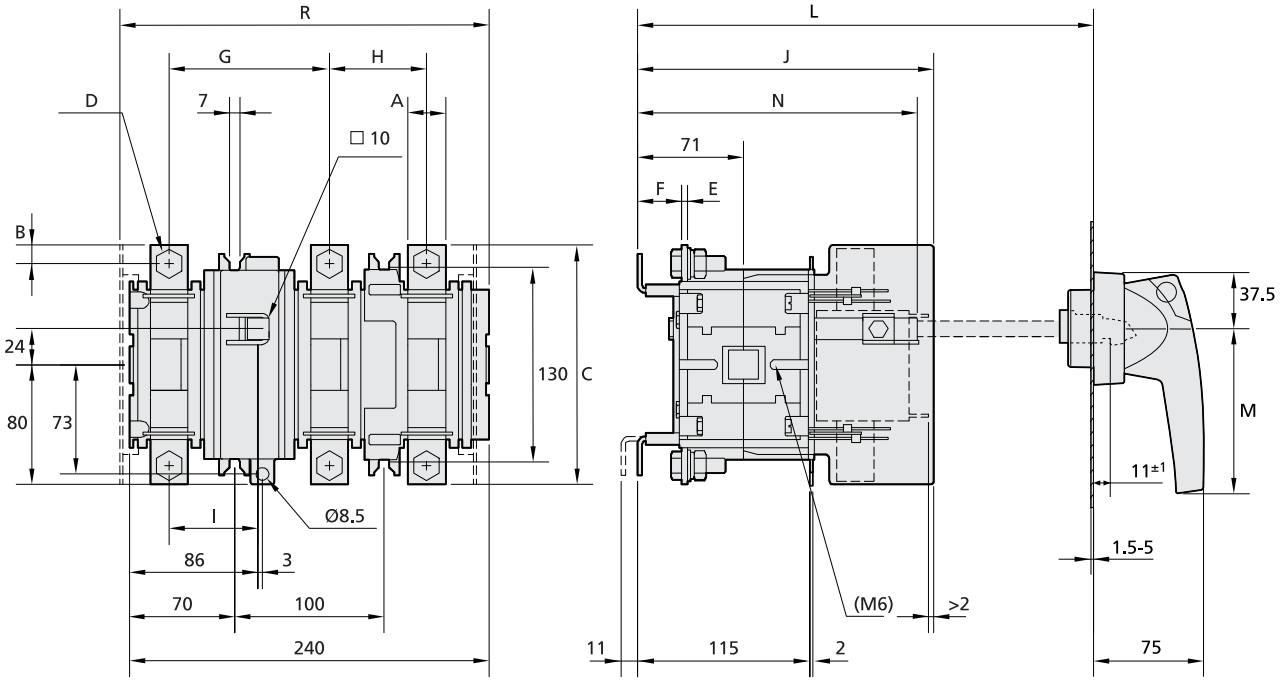
Outline drawings for QSA (Dimensions are in mm)

DIN QSA 200 A to 400 A - Frame size 2



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R
QSA 200N-2	25	12.5	160	M10	4	29	107	65	59.5	198	160	205^{+10} - 625^{+10}	140	188	246.5
QSA 250N-2	25	12.5	160	M10	4	29	107	65	59.5	198	160	205^{+10} - 625^{+10}	140	188	246.5
QSA 315N-2	25	12.5	160	M10	6	27	107	65	59.5	198	160	205^{+10} - 625^{+10}	140	188	246.5
QSA 400N-2	25	12.5	160	M10	6	27	107	65	59.5	198	160	205^{+10} - 625^{+10}	140	188	246.5

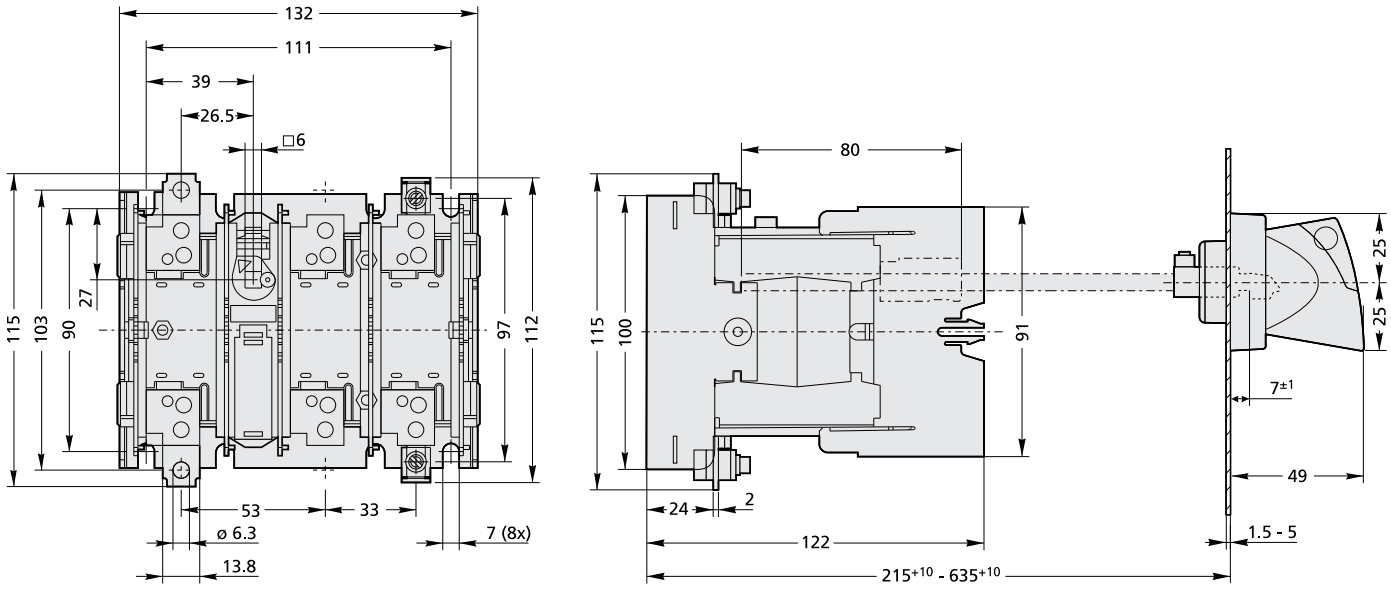
DIN QSA 400 A and 630 A - Frame size 3



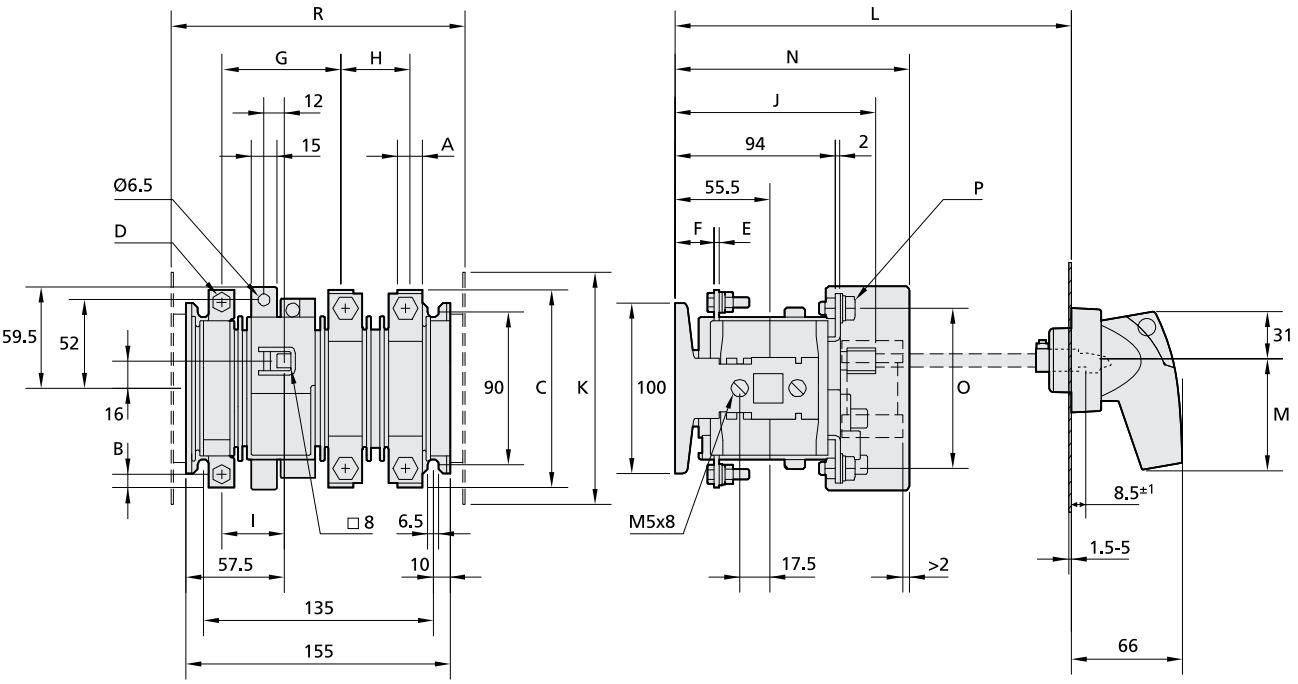
Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
QSA 400-3	40	20	270	M12	6	23	87	87	60	173	205	320^{+10} - 620^{+10}	200	240
QSA 630-3	40	20	270	M12	6	23	87	87	60	173	205	320^{+10} - 620^{+10}	200	240

Outline drawings for QSA (Dimensions are in mm)

BS QSA 40 A and 63 A - Frame size 0



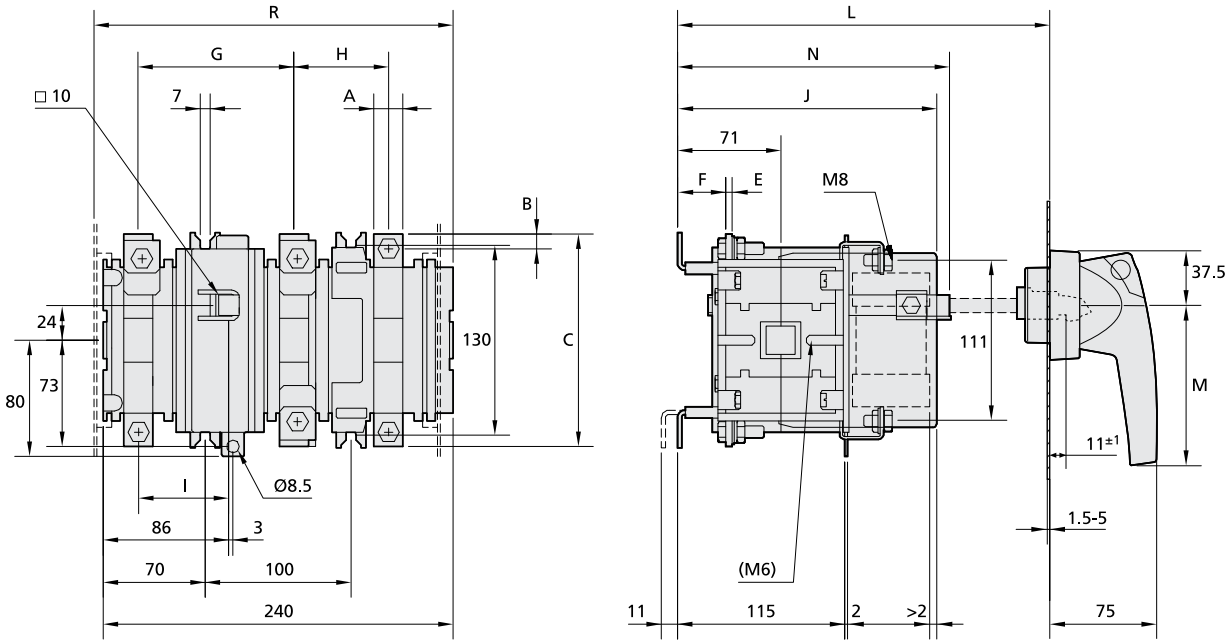
BS QSA 63 A to 160 A - Frame size 1



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
QSA 63N1-A3	12	6	100	M5	2	24	72	38.5	38	118	95	200^{+10} - 620^{+10}	62	155.5	73	M5	-
QSA 100N1-A4	15	7.5	116	M6	3	23	70	40.5	37	118	120	200^{+10} - 620^{+10}	62	137.5	94	M8	-
QSA 125N1-B2	15	7.5	116	M6	3	23	70	40.5	37	118	150	200^{+10} - 620^{+10}	62	137.5	112	M8	184
QSA 160N1-B2	20	10	127	M8	3	23	65	45.5	35	118	150	200^{+10} - 620^{+10}	62	137.5	112	M8	184

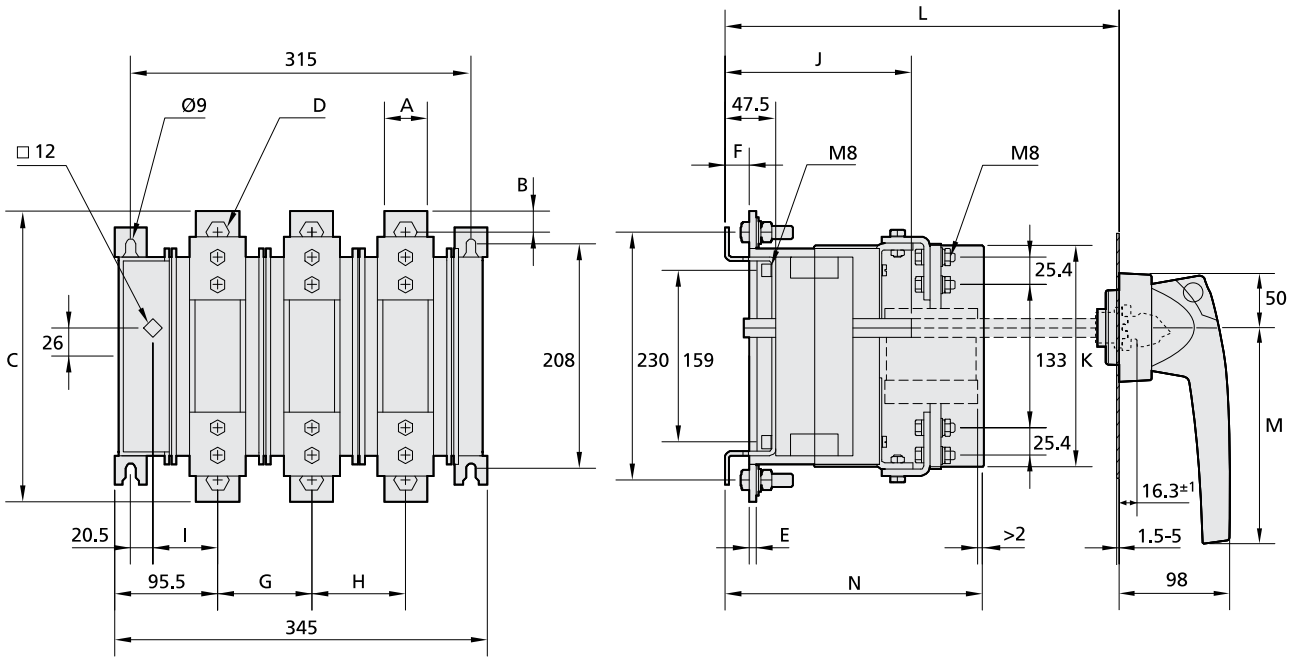
Outline drawings for QSA (Dimensions are in mm)

BS QSA 200 A to 400 A - Frame size 2



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R
QSA 200N-B2	20	10	146	M8	4	33	107	65	62	188	120	205^{+15} - 625^{+15}	140	178	-
QSA 250N-B4	25	12.5	160	M10	4	29	107	65	59.5	188	160	205^{+15} - 625^{+15}	140	198	246.5
QSA 315N-B4	25	12.5	160	M10	6	27	107	65	59.5	188	160	205^{+15} - 625^{+15}	140	198	246.5
QSA 400N-B4	25	12.5	160	M10	6	27	107	65	59.5	188	160	205^{+15} - 625^{+15}	140	198	246.5

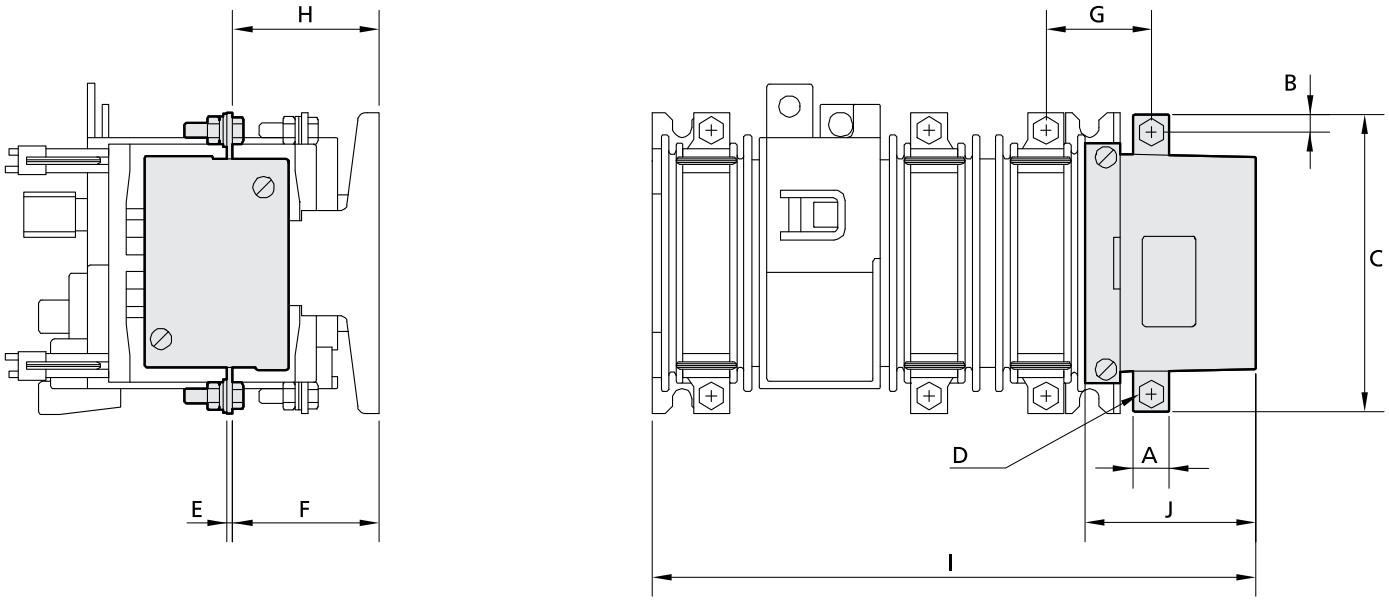
BS QSA 400 A to 800 A - Frame size 3



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
QSA 400-C3/3	40	20	270	M12	6	23	87	87	60	173	205	320^{+10} - 620^{+10}	200	240
QSA 630-C3/3	40	20	270	M12	6	23	87	87	60	173	205	320^{+10} - 620^{+10}	200	240
QSA 800-C3/3	40	20	270	M12	6	23	87	87	60	173	205	320^{+10} - 620^{+10}	200	240

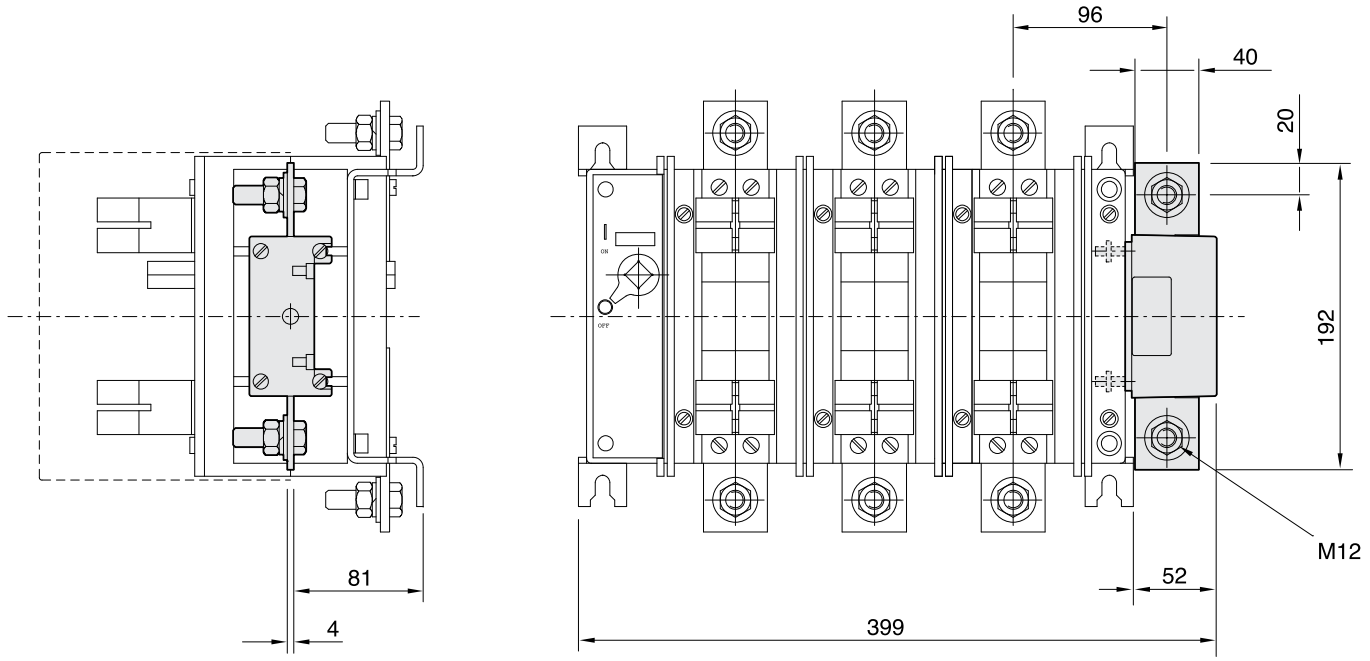
Outline drawings for QSA (Dimensions are in mm)

BS or DIN QSA 40 A to 400 A with switched neutral - Frames sizes 0 to 2



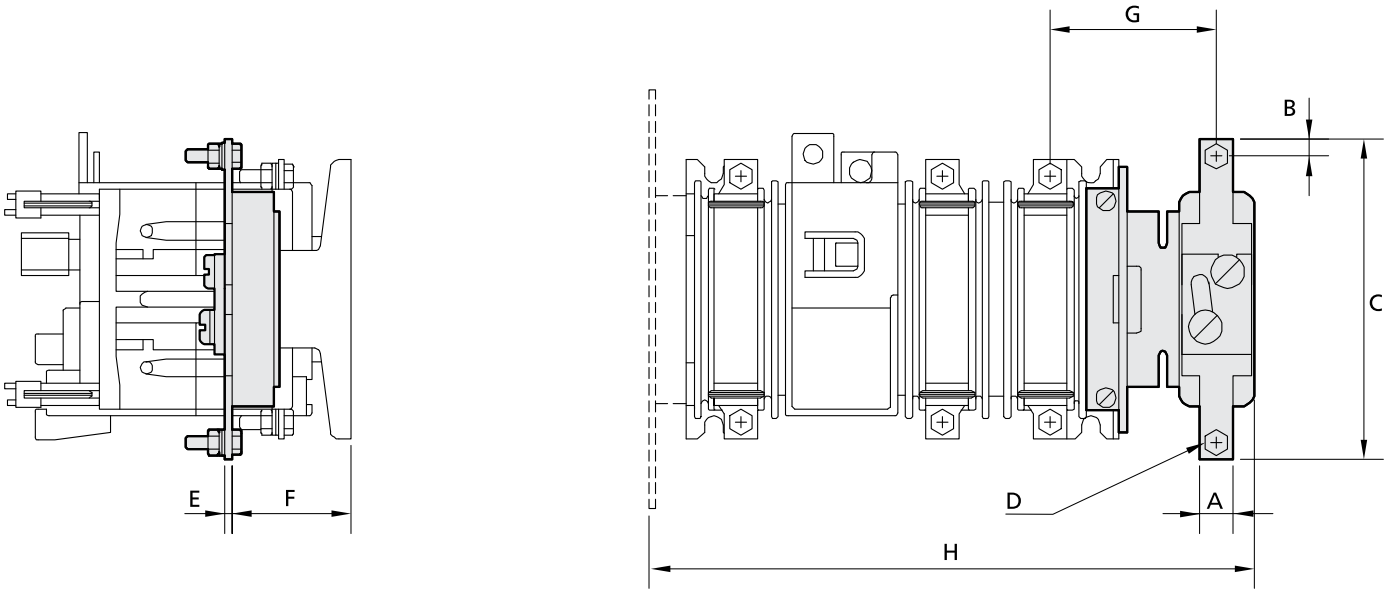
Type	Frame size	A	B	C	D	E	F	G	H	I	J
QSA 40N0/QSA63N0	0	12	6	99	M5	4.5	48	35	45.5	177	45
QSA 63N1	1	12	6	99	M5	2	48.5	36	48.5	200	45
QSA 100N1	1	15	7.5	105	M6	4.5	48.5	33.5	46	200	45
QSA 125N1	1	15	7.5	105	M6	4.5	48.5	33.5	46	200	45
QSA 160N1	1	20	10	115	M8	4.5	48.5	32	46	200	45
QSA 200N	2	20	10	146	M8	4	69	53	69	299	53
QSA 250N	2	25	12.5	160	M10	4	69	55.5	69	299	53
QSA 315N	2	25	12.5	160	M10	4	69	55.5	69	299	53
QSA 400N	2	25	12.5	160	M10	4	69	55.5	69	299	53

BS or DIN QSA 400 A to 800 A with switched neutral - Frames size 3



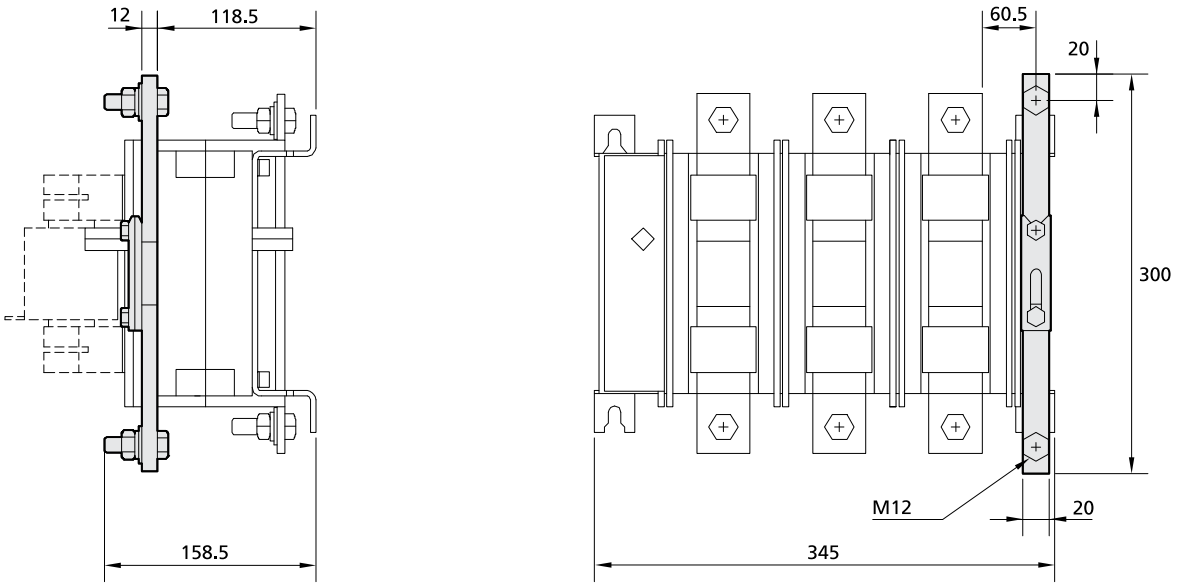
Outline drawings for QSA (Dimensions are in mm)

BS or DIN QSA 40 A to 400 A with solid neutral - Frames sizes 0 to 2



Type	Frame size	A	B	C	D	E	F	G	H
QSA 40N0/QSA63N0	0	12	6	114	M5	2.5	44	55	177
QSA 63N1	1	12	6	114	M5	2.5	41.5	57	203
QSA 100N1	1	15	7.5	116.5	M6	3	41.5	56	203
QSA 125N1	1	15	7.5	116.5	M6	3	41.5	56	216
QSA 160N1	1	20	10	127	M8	3	41.5	54	216
QSA 200N	2	20	10	146	M8	4	70	79	296.5
QSA 250N	2	25	12.5	160	M10	4	70	76.5	296.5
QSA 315N	2	25	12.5	160	M10	4	70	76.5	296.5
QSA 400N	2	25	12.5	160	M10	4	70	76.5	296.5

BS or DIN QSA 400 A to 800 A with solid neutral - Frames size 3



Type	A	B	C	D	E	F	G	H	I
QSA 40N0/QSA63N0	20	20	300	M12	12	118.5	60.5	158.5	345
QSA 63N1	20	20	300	M12	12	118.5	60.5	158.5	345
QSA 100N1	20	20	300	M12	12	118.5	60.5	158.5	345

Compatible Eaton's Bussmann series Fuse links

NH Fuse links suitable for QSA DIN switch-disconnector

500 V a.c. NH with metal gripping lugs, 2 to 1250 A, sizes 000 to 4, IEC 60269 and DIN 43620





QSA DIN	Compatible NH Fuse links					
Article number	Part number	Size	Rated current (Amps)	Rated voltage	Pack qty	MOQ
1318027, 1318030, 1318033 1320201, 1320203, 1320205, 1320207, and 13138546	2NHG000B	000	2	500 V a.c.	3	3
	4NHG000B	000	4	500 V a.c.	3	3
	6NHG000B	000	6	500 V a.c.	3	3
	10NHG000B	000	10	500 V a.c.	3	3
	16NHG000B	000	16	500 V a.c.	3	3
	20NHG000B	000	20	500 V a.c.	3	3
	25NHG000B	000	25	500 V a.c.	3	3
	32NHG000B	000	32	500 V a.c.	3	3
	35NHG000B	000	35	500 V a.c.	3	3
	40NHG000B	000	40	500 V a.c.	3	3
1318027, 1318030, 1318033, 1320203, 1320207, and 13138546	50NHG000B	000	50	500 V a.c.	3	3
	63NHG000B	000	63	500 V a.c.	3	3
1318030, 1318033 and 1318546	80NHG000B	000	80	500 V a.c.	3	3
	100NHG000B	000	100	500 V a.c.	3	3
1318027, 1318030, 1318033 1320203, 1320207, and 13138546	50NHG00B	00	50	500 V a.c.	3	3
	63NHG00B	00	63	500 V a.c.	3	3
1318546	80NHG00B	00	80	500 V a.c.	3	3
	100NHG00B	00	100	500 V a.c.	3	3
1318030	125NHG00B	00	125	500 V a.c.	3	3
1318033	160NHG00B	00	160	500 V a.c.	3	3
1318526, 1318533, 1318547 and 1318548	50NHG1B	1	50	500 V a.c.	3	3
	63NHG1B	1	63	500 V a.c.	3	3
	80NHG1B	1	80	500 V a.c.	3	3
	100NHG1B	1	100	500 V a.c.	3	3
	125NHG1B	1	125	500 V a.c.	3	3
	160NHG1B	1	160	500 V a.c.	3	3
	200NHG1B	1	200	500 V a.c.	3	3
1318526, 1318533 and 1318548	224NHG1B	1	224	500 V a.c.	3	3
	250NHG1B	1	250	500 V a.c.	3	3
1318533 and 1318548	315NHG1B	1	315	440 V a.c.	3	3
1318533	355NHG1B	1	355	440 V a.c.	3	3
1318526, 1318533 and 1318548	250NHG2B	2	250	500 V a.c.	3	3
1318533 and 1318548	300NHG2B	2	300	500 V a.c.	3	3
	315NHG2B	2	315	500 V a.c.	3	3
1318533	355NHG2B	2	355	500 V a.c.	3	3
	400NHG2B	2	400	500 V a.c.	3	3
1318542 and 1318543 and 1318549	315NHG3B	3	315	500 V a.c.	3	3
	355NHG3B	3	355	500 V a.c.	3	3
	400NHG3B	3	400	500 V a.c.	3	3
1318542, 1318543	425NHG3B	3	425	500 V a.c.	3	3
	450NHG3B	3	450	500 V a.c.	3	3
	500NHG3B	3	500	500 V a.c.	3	3
	630NHG3B	3	630	500 V a.c.	3	3
1318543	800NHG3B	3	800	440 V a.c.	3	3

Compatible Eaton's Bussmann series Fuse links

NH Fuse links suitable for QSA DIN switch-disconnector

500 V a.c. NH with insulated metal gripping lugs, 2 to 500 A, sizes 000 to 2, IEC 60269 and DIN 43620



QSA DIN	Compatible NH Fuse links					
Article number	Part number	Size	Rated current (Amps)	Rated voltage	Pack qty	MOQ
1318027, 1318030 , 1318033, 1318201, 1318203, 1318205, 1318207 and 1318546	2NHG000BI	000	2	500 V a.c.	3	3
	4NHG000BI	000	4	500 V a.c.	3	3
	6NHG000BI	000	6	500 V a.c.	3	3
	10NHG000BI	000	10	500 V a.c.	3	3
	16NHG000BI	000	16	500 V a.c.	3	3
	20NHG000BI	000	20	500 V a.c.	3	3
	25NHG000BI	000	25	500 V a.c.	3	3
	32NHG000BI	000	32	500 V a.c.	3	3
	35NHG000BI	000	35	500 V a.c.	3	3
	40NHG000BI	000	40	500 V a.c.	3	3
1318027, 1318030, 1318033, 1318203, 1318207 and 1318546	50NHG000BI	000	50	500 V a.c.	3	3
	63NHG000BI	000	63	500 V a.c.	3	3
1318030, 1318033, 1318203, and 1318546	80NHG000BI	000	80	500 V a.c.	3	3
	100NHG000BI	000	100	500 V a.c.	3	3
1318030 and 1318033	125NHG00BI	00	125	500 V a.c.	3	3
1318033	160NHG00BI	00	160	500 V a.c.	3	3
1318526, 1318533, 1318547 and 1318548	50NHG1BI	1	50	500 V a.c.	3	3
	63NHG1BI	1	63	500 V a.c.	3	3
	80NHG1BI	1	80	500 V a.c.	3	3
	100NHG1BI	1	100	500 V a.c.	3	3
	125NHG1BI	1	125	500 V a.c.	3	3
	160NHG1BI	1	160	500 V a.c.	3	3
	200NHG1BI	1	200	500 V a.c.	3	3
1318526, 1318533 and 1318548	224NHG1BI	1	224	500 V a.c.	3	3
	250NHG1BI	1	250	500 V a.c.	3	3
1318526, 1318533 and 1318548	250NHG2BI	2	250	500 V a.c.	3	3
1318533 and 1318548	300NHG2BI	2	300	500 V a.c.	3	3
	315NHG2BI	2	315	500 V a.c.	3	3
1318533	355NHG2BI	2	355	500 V a.c.	3	3
	400NHG2BI	2	400	500 V a.c.	3	3

Compatible Eaton's Bussmann series Fuse links

British Standard fuse links suitable for QSA BS switch-disconnector

BAO, 35 to 63 A, 500 V a.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318011, 1320200, 1320202, 1320204 and 1320206	BAO35	A3	35	500 V a.c.	73.5 mm	10	10
	BAO40	A3	40	500 V a.c.	73.5 mm	10	10
1318011, 1320202 and 1320206	BAO50	A3	50	500 V a.c.	73.5 mm	10	10
	BAO63	A3	63	500 V a.c.	73.5 mm	10	10
	BAO63M80	A3	63M80	500 V a.c.	73.5 mm	10	10
	BAO63M100	A3	63M100	500 V a.c.	73.5 mm	10	10

Data sheet 4112

TIS, 35 to 63 A, 660-690 V a.c. and 460 V d.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318011, 1320200, 1320202, 1320204 and 1320206	TIS35	A3	35	660-690 V a.c. / 460 V d.c.	73 mm	10	10
	TIS40	A3	40	660-690 V a.c. / 460 V d.c.	73 mm	10	10
1318011, 1320202 and 1320206	TIS50	A3	50	660-690 V a.c. / 460 V d.c.	73 mm	10	10
	TIS63	A3	63	660-690 V a.c. / 460 V d.c.	73 mm	10	10
	TIS63M80	A3	63M80	660-690 V a.c. / 460 V d.c.	73 mm	10	10
	TIS63M100	A3	63M100	660-690 V a.c. / 460 V d.c.	73 mm	10	10

Data sheet 10020

CEO, 32 to 100 A, 500 V a.c. (gG) and 415 V a.c.(gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318016	CEO32	A4	32	500 V a.c.	94 mm	10	10
	CEO40	A4	40	500 V a.c.	94 mm	10	10
	CEO50	A4	50	500 V a.c.	94 mm	10	10
	CEO63	A4	63	500 V a.c.	94 mm	10	10
	CEO80	A4	80	500 V a.c.	94 mm	10	10
	CEO100	A4	100	500 V a.c.	94 mm	10	10
	CEO100M125	A4	100M125	415 V a.c.	94 mm	10	10
	CEO100M160	A4	100M160	415 V a.c.	94 mm	10	10
	CEO100M200	A4	100M200	415 V a.c.	94 mm	10	10

Data sheet 4115

TCP, 32 to 100 A, 660-690 V a.c. and 350-460 V d.c. (gG); 660-690 V a.c. and 350 V d.c. (gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318020	TCP32	A4	32	660-690 V a.c. / 460 V d.c.	93.7 mm	10	10
	TCP40	A4	40	660-690 V a.c. / 460 V d.c.	93.7 mm	10	10
	TCP50	A4	50	660-690 V a.c. / 460 V d.c.	93.7 mm	10	10
	TCP63	A4	63	660-690 V a.c. / 460 V d.c.	93.7 mm	10	10
	TCP80	A4	80	660-690 V a.c. / 350 V d.c.	93.7 mm	10	10
	TCP100	A4	100	660-690 V a.c. / 350 V d.c.	93.7 mm	10	10
	TCP100M125	A4	100M125	660-690 V a.c. / 350 V d.c.	93.7 mm	10	10
	TCP100M160	A4	100M160	660-690 V a.c. / 350 V d.c.	93.7 mm	10	10
	TCP100M200	A4	100M200	660-690 V a.c. / 350 V d.c.	93.7 mm	10	10

Data sheet 10020

Compatible Eaton's Bussmann series Fuse links

British Standard fuse links suitable for QSA BS switch-disconnector

CD, 80 and 100 A, 500 V a.c. (gG) and 415 V a.c. (gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318020, 1318023, 1319065, 1319074, 1319095 and 1319103	CD80	B1	80	500 V a.c.	111 mm	10	10
	CD100	B1	100	500 V a.c.	111 mm	10	10
	CD100M125	B1	100M125	415 V a.c.	111 mm	10	10
	CD100M160	B1	100M160	415 V a.c.	111 mm	10	10
	CD100M200	B1	100M200	415 V a.c.	111 mm	10	10

Data sheet 4116

TC, 80 and 100 A, 660-690 V a.c. and 350 V d.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318020, 1318023, 1319065, 1319074, 1319095 and 1319103	TC80	B1	80	660-690 V a.c. / 350 V d.c.	111 mm	10	10
	TC100	B1	100	660-690 V a.c. / 350 V d.c.	111 mm	10	10
	TC100M125	B1	100M125	660-690 V a.c. / 350 V d.c.	111 mm	10	10
	TC100M160	B1	100M160	660-690 V a.c. / 350 V d.c.	111 mm	10	10
	TC100M200	B1	100M200	660-690 V a.c. / 350 V d.c.	111 mm	10	10

Data sheet 10078

DD, 125 to 200 A, 415 V a.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318020, 1318023, 1319065, 1319074, 1319095 and 1319103	DD125	B2	125	415 V a.c.	111 mm	5	5
	DD160	B2	160	415 V a.c.	111 mm	5	5
	DD200	B2	200	415 V a.c.	111 mm	5	5
	DD200M250	B2	200M250	415 V a.c.	111 mm	5	5
	DD200M315	B2	200M315	415 V a.c.	111 mm	5	5

Data sheet 4118

TF, 125 to 200 A, 660-690 V a.c. and 350 V d.c. (gG); 550-660-690 V a.c. and 460 V d.c. (gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318020, 1318023, 1319065, 1319074, 1319095 and 1319103	TF125	B2	125	660-690 V a.c., 350 V d.c.	111 mm	10	10
	TF160	B2	160	660-690 V a.c., 350 V d.c.	111 mm	10	10
	TF200	B2	200	660-690 V a.c., 350 V d.c.	111 mm	10	10
	TF200M250	B2	200M250	660-690 V a.c., 460 V d.c.	111 mm	10	10
	TF200M315	B2	200M315	550 V a.c.	111 mm	10	10

Data sheet 10078

ED, 250 to 400 A, 415 V a.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1319065, 1319074, 1319095 and 1319103	ED250	B3/B4	250	415 V a.c.	111 mm	1	1
	ED315	B3/B4	315	415 V a.c.	111 mm	1	1
	ED355	B3/B4	355	415 V a.c.	111 mm	1	1
	ED400	B3/B4	400	415 V a.c.	111 mm	1	1
	ED315M400	B3/B4	315M400	415 V a.c.	111 mm	1	1
	ED400M500	B3/B4	400M500	415 V a.c.	111 mm	1	1

Data sheet 4119

Fused switch-disconnectors, 40 A to 800 A, 690 V a.c.

Compatible Eaton's Bussmann series Fuse links

British Standard fuse links suitable for QSA BS switch-disconnector

TKF, 250 and 315 A, 660-690 V a.c. and 460 V d.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1319065, 1319074, 1319095 and 1319103	TKF250	B3	250	660-690 V a.c./ 460 V d.c.	111 mm	5	5
	TKF315	B3	315	660-690 V a.c./ 460 V d.c.	111 mm	5	5
	TKF315M355	B3	315M355	660-690 V a.c./ 460 V d.c.	111 mm	5	5

Data sheet 10078

7

TMF, 355 and 400 A, 660-690 V a.c. and 460 V d.c. (gG and gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1319065, 1319074, 1319095 and 1319103	TMF355	B4	355	660-690 V a.c. / 460 V d.c.	111 mm	1	1
	TMF400	B4	400	660-690 V a.c. / 460 V d.c.	111 mm	1	1
	TMF400M450	B4	400M450	660-690 V a.c. / 460 V d.c.	111 mm	1	1

Data sheet 10078

EF, 355 and 400 A, 415 V a.c. (gG) and 550 V a.c. (gM)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318537, 1318544 and 1319175	EF355	C1	355	415 V a.c.	184 mm	1	1
	EF400	C1	400	415 V a.c.	184 mm	1	1
	EF400M500	C1	400M500	550 V a.c.	184 mm	1	1

Data sheet 4120

FF, 450 to 630 A, 690 V a.c. and 400 V d.c. (gG)



QSA BS Switch-Disconnectors Article number	Fuse links Part number	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318537, 1318544 and 1319175	FF450	450	690 V a.c./400V d.c.	185 mm	1	1
	FF500	500	690 V a.c./400V d.c.	185 mm	1	1
	FF560	560	690 V a.c./400V d.c.	185 mm	1	1
	FF630	630	690 V a.c./400V d.c.	185 mm	1	1

Data sheet 4102

TTM, 450 to 630 A, 660-690 V a.c. and 450 V d.c. (gG and gM)

QSA BS Switch-Disconnectors Article number	Fuse links Part number	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318537, 1318544 and 1319175	TTM450	450	660-690 V a.c. / 450 V d.c.	133 mm	1	1
	TTM500	500	660-690 V a.c. / 450 V d.c.	133 mm	1	1
	TTM560	560	660-690 V a.c. / 450 V d.c.	133 mm	1	1
	TTM630	630	660-690 V a.c. / 450 V d.c.	133 mm	1	1
	TTM630M670	630M670	660-690 V a.c. / 450 V d.c.	133 mm	1	1

Data sheet 10078

GF, 710 and 800 A, 550 V a.c. and 250 V d.c. (gG)

QSA BS Switch-Disconnectors Article number	Fuse links Part number	BS Ref	Rated current (Amps)	Rated voltage	Fixing centres	Pack qty	MOQ
1318537, 1318544 and 1319175	GF710	C3	710	550 V a.c./ 250V d.c.	185 mm	1	1
	GF800	C3	800	550 V a.c./ 250V d.c.	185 mm	1	1

Data sheet 4103



Worldwide export of machines and plants

European machine and system building and worldwide exports are closely related. Even if you don't export your machines at present, you should be prepared for it in the future. Eaton provides switchgear and protective devices with all the essential approvals and certificates for machine and system building. In most countries around the world, conformity with international standards is the sole requirement for successful exports. This is because components in these locations are governed by compliance with well known and established IEC standards. In this respect, the European CE mark is not only the passport for exports within Europe but also far beyond its borders.



World market equipment for machine building

Nearly all the switchgear and protective devices of Eaton's Moeller series are world market devices. Each product line thus carries all the approvals and certification marks required for worldwide use.

These product lines include those for

- Pilot devices, limit switches
- Contactors and various timing and special relays
- Motor-protective circuit breakers and relays
- Electronic components and systems.

With circuit breakers and switch-disconnectors, Eaton offers IEC devices for use in most countries in the world and NA devices with virtually the same dimensions and the same accessories for the North American market. This considerably simplifies device selection since the North American standards often involve the need for considerably different technical specifications.

www.eaton.eu/export

Fused switch-disconnector 25 A, 35 A and 50 A, 400 V a.c.

Pasco Fused switch-disconnector, 25 A, 35 A and 50 A, 400 V a.c.



Description

The Pasco fused switch-disconnector provide the ultimate safety in electrical protection for equipment and personnel.
The 'D' Type low voltage fuse links fitted in the Pasco unit protect the equipment against overcurrents and the switch enables safe disconnection.

Standards/Approvals

- IEC 60947-3
- KEMA-KEUR

Technical data

- Voltage: 400 V ac.
- Current: 25 A, 35 A and 50 A
- 1-pole, 2-pole, 3-poles

Recommended fuse links

Eaton's Bussmann series D Type fuse links

Features

- Enclosure made of non-tracking synthetic material
- Suitable for horizontal DIN-Rail mounting
- Fuse-base contact is not live once the 'D' Type fuse link has been removed
- Semi-independent manual operating mechanism
- Terminals protected against accidental touch
- Fuse rating guide plate included
- Blown fuse LED indicator light
- Utilisation category: AC-21 A and AC-22 B

Pasco Fused switch-disconnector and Paco fuse holder, 25 A, 35 A and 50 A, 400 V a.c.

Pasco and Paco range overview

	Voltage (V a.c.)	25 A	35 A	50 A
Pasco fused switch-disconnector	230/400	✓	✓	✓
Paco fuse holder	230	✓		✓

Pasco fused switch-disconnector - Type LPC - 25 A , 35 A and 50 A, 230 and 400 V a.c.



1713612



1713616



1713618

Current (A)	Voltage (V a.c.)	Number of poles	Width (mm)	Part number	Article number	Pack qty	Compatible Eaton's Bussmann series D Type fuse links
25	230	1P + Neutral	36	LPC25-16AFUSE	1713610	1	16A fuse already included with unit
25	230	1P + Neutral	36	LPC25	1713612	1	DII fuse links
50	230	1P + Neutral	36	LPC50	1713613	1	DIII fuse links
25	230	2P + 2 Neutral	72	LPC25/2	1713616	1	DII fuse links
25	400	3P + Neutral	108	LPC25/3	1713617	1	DII fuse links
35	400	3P + Neutral	108	LPC35/3	1713618	1	DIII fuse links

Paco fuse holder - Type PHM - 25 A and 50 A, 230 V a.c.



1713614

Current (A)	Voltage (V a.c.)	Number of poles	Width (mm)	Part number	Article number	Pack qty	Compatible Eaton's Bussmann series D Type fuse links
25	230	1P	36	PHM25-16AFUSE	1713611	1	16A fuse already included with unit
25	230	1P	36	PHM25	1713614	1	DII fuse links
50	230	1P	36	PHM50	1713615	1	DIII fuse links

See compatible Eaton's Bussmann series 'D' Type fuse links page 84

Accessories for Pasco and Paco

Fuse rating guide plate



1713622

Current (A)	Fuse link size	Colour	Part number	Article number	Pack qty
6	0	Green	LPC6-ADAPTER	1713622	10
10	0	Red	LPC10-ADAPTER	1713623	10
16	1	Grey	LPC16-ADAPTER	1713624	10
20	1	Blue	LPC20-ADAPTER	1713625	10
25	1	Yellow	LPC25-ADAPTER	1713626	10
35	1	Black	LPC35-ADAPTER	1713627	10
50	2	White	LPC50-ADAPTER	1713628	10

Tool for inserting fuse rating guide plate



1713629

Part number	Article number	Pack qty
LPC-ADAPTERKEY	1713629	1

Fused switch-disconnector 25 A, 35 A and 50 A, 400 V a.c.

Accessories for Pasco and Paco

Dummy fuse insert for maintenance work



1713607

Part number	Article number	Pack qty
LPC-PHM-DUMMY	1713607	1

Compatible Eaton's Bussmann series Fuse links

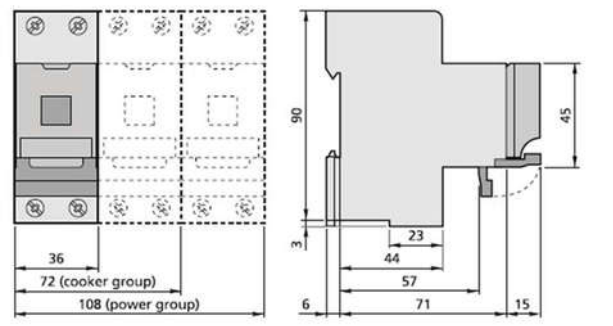
'D' Type low voltage fuse links suitable for Pasco fused switch-disconnector

8

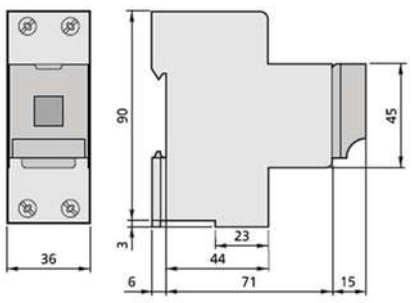


Pasco/Paco	Compatible 'D' Type Fuse links					
Article number	Part number	Size	Type	Current (Amps)	Voltage (V a.c.)	Pack qty
Pasco LPC25 : 1713612, 1713616 and 1713617 Paco PHM25: 1713614	6D27	DII	Time-delay	6	500	25
	10D27	DII	Time-delay	10	500	25
	16D27	DII	Time-delay	16	500	25
	20D27	DII	Time-delay	20	500	25
	25D27	DII	Time-delay	25	500	25
	6D27Q	DII	Fast acting	6	500	25
	10D27Q	DII	Fast acting	10	500	25
	16D27Q	DII	Fast acting	16	500	25
	20D27Q	DII	Fast acting	20	500	25
	25D27Q	DII	Fast acting	25	500	25
	6D27R	DII	Ultra rapid	6	500	25
	10D27R	DII	Ultra rapid	10	500	25
	16D27R	DII	Ultra rapid	16	500	25
	20D27R	DII	Ultra rapid	20	500	25
	25D27R	DII	Ultra rapid	25	500	25
Pasco LPC35 1713618	35D33	DIII	Time-delay	35	500	25
	35D33Q	DIII	Fast acting	35	500	25
	35D33R	DIII	Ultra rapid	35	500	25
Pasco LPC50 1713613 Paco PHM50: 1713615	35D33	DIII	Time-delay	35	500	25
	40D33	DIII	Time-delay	40	500	25
	50D33	DIII	Time-delay	50	500	25
	35D33Q	DIII	Fast acting	35	500	25
	40D33Q	DIII	Fast acting	40	500	25
	50D33Q	DIII	Fast acting	50	500	25
	35D33R	DIII	Ultra rapid	35	500	25
	40D33R	DIII	Ultra rapid	40	500	25
	50D33R	DIII	Ultra rapid	50	500	25

Outline drawings for Pasco and Paco (Dimensions are in mm)



Pasco, Type LPC

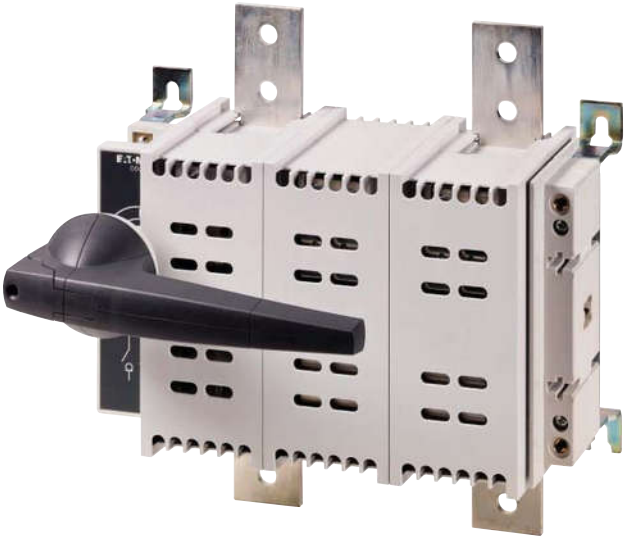


Paco, Type HPM

Technical data for Pasco and Paco

			Pasco LPC25	Pasco LPC35/50	Paco PHM25	Paco PHM50
Conventional free air thermal current	I_{th}		25 A	50 A 1P+N, 35 A 3P+N	25 A	50 A
Conventional enclosed thermal current	I_{the}	35°C	25 A	50 A 1P+N, 35 A 3P+N	25 A	50 A
Rated uniterrupted current	I_u		25 A	50 A 1P+N, 35 A 3P+N	25 A	50 A
Rated operational voltage	U_e		230 V LPC25 230 V LPC25/2 400 V LPC25/3	230 V LPC50 400 V LPC35/3	230 V	230 V
Rated insulation voltage	U_i		400 V	400 V	230 V	230 V
Rated impulse withstand voltage	U_{imp}		6 kV	6 kV	6 kV	6 kV
Rated frequency			50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Storage temperature			-25...+80°C	-25... +80°C	-25...+80°C	-25... +80°C
Max altitude (without derating)			2000 m	2000 m	2000 m	2000 m
Rated operational current						
AC-21A						
At U_e = 230 V AC-21A	I_e		25 A	50 A LPC50 35 A LPC35/3	-	-
AC-22A						
At U_e = 230 V AC-22A	I_e		25 A LPC25, LPC25/2	50 A LPC50	-	-
At U_e = 400 V AC-22A	I_e		50 A LPC25/3	35 A LPC35/3	-	-
AC-21B						
At U_e = 230 V AC-21B	I_e		-	-	25 A	50 A
AC-22B						
At U_e = 400 V AC-22B	I_e		-	35 A 3P+N	-	-
Rated conditional short-circuit current	I_p		50 kA	35 kA	50 kA	35 kA
Cut-off current	max.		4.8 kA	6.7 kA	4.8 kA	6.7 kA
Joule integral	max.		4 kA^2s	15 kA^2s	4 kA^2s	15 kA^2s
Fuse-link max	I_n		25 A	50 A LPC50 35 A LPC35/3	25 A	50 A
Fuse link Type			DII	DIII	DII	DIII
Power dissipation per pole at I_{th}			1.7 W	2.4 W (35 A), 3.1 W (50 A)	0.5 W	1.9 W
Maximum fuse watts loss			3 W	5 W (1P+N), 4.1 W (3P+N)	3 W	5 W
Durability - maximum cycles (on + off)			10.000	10.000	2.000	2.000
Protection class			IP20	IP20	IP20	IP20
Terminal capacities						
Cross section 1 cable						
Solid			1.5 - 6 mm^2	1.5 - 6 mm^2	1.5 - 6 mm^2	1.5 - 6 mm^2
Flexible			1.5 - 16 mm^2	1.5 - 16 mm^2	1.5 - 16 mm^2	1.5 - 16 mm^2
Cross section 2 cables						
Solid			1.5 - 4 mm^2	1.5 - 4 mm^2	1.5 - 4 mm^2	1.5 - 4 mm^2
Flexible			1.5 - 4 mm^2	1.5 - 4 mm^2	1.5 - 4 mm^2	1.5 - 4 mm^2
Tightening torque			2 Nm	2 Nm	2 Nm	2 Nm
Pollution degree			II/2	II/2	II/2	II/2
Standards			EN-IEC 60947-3			
Approvals			CE, KEMA-KEUR			

Dumeco DDC, 63 A to 1250 A, 1000 V d.c.





Description

The Dumeco DDC switch-disconnectors are specifically designed for applications such as residential, light commercial sites and DC battery storage.

Standards/Approvals

- IEC 60947-3
- CE
- RoHS
- CCC

Technical data

- Voltage: 1000 V d.c..
- Current: 63 A to 1250 A

Features

- Operator independent switch
- Specially designed self-cleaning roller contacts
- Bi-directional pole connection gives installation flexibility (non polarised
- Suitable for rear/base plate mounting
- Operational shaft lengths up to 600 mm
- Protection degree up to IP65
- Door interlocking in OFF position by using D-Type handles
- Padlockable handles in OFF position, defeatable in ON position

Switch-disconnectors for DC applications, 63 A to 1250 A, 1000 V d.c.

Dumeco DDC, 63 A to 1250 A, 1000 V d.c.

DDC range overview

	63 A	80 A	100 A	125 A	160 A	200 A	250 A	400 A	630 A	800 A	1000 A	1250 A
Switch-disconnectors with pre-mounted grey handle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switch-disconnectors without shaft and handle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switch-disconnectors with 300 mm shaft and grey handle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switch-disconnectors in Ci-K5 enclosure with red/yellow or grey handle	✓	✓	✓									

DDC with pre-mounted grey handle



6098920

Current rating	Number of poles	Frame size	Part number	Article number	Pack qty
63 A	2P	0	DDC-63/2	6098920	1
80 A	2P	0	DDC-80/2	6098923	1
100 A	2P	0	DDC-100/2	6098926	1
125 A	2P	1	DDC-125/2	6098930	1
160 A	2P	1	DDC-160/2	6098933	1
200 A	2P	1	DDC-200/2	6098936	1
250 A	2P	2	DDC-250/2	6098940	1
400 A	2P	2	DDC-400/2	6098943	1
630 A	2P	2	DDC-630/2	6098946	1
800 A	2P	3	DDC-800/2	6098950	1
1000 A	2P	3	DDC-1000/2	6098953	1
1250 A	2P	3	DDC-1250/2	6098956	1

DDC without shaft and handle



6098937

Current rating	Number of poles	Frame size	Part number	Article number	Pack qty
63 A	2P	0	DDC-63/2-SK	6098921	1
80 A	2P	0	DDC-80/2-SK	6098924	1
100 A	2P	0	DDC-100/2-SK	6098927	1
125 A	2P	1	DDC-125/2-SK	6098931	1
160 A	2P	1	DDC-160/2-SK	6098934	1
200 A	2P	1	DDC-200/2-SK	6098937	1
250 A	2P	2	DDC-250/2-SK	6098941	1
400 A	2P	2	DDC-400/2-SK	6098944	1
630 A	2P	2	DDC-630/2-SK	6098947	1
800 A	2P	3	DDC-800/2-SK	6098951	1
1000 A	2P	3	DDC-1000/2-SK	6098954	1
1250 A	2P	3	DDC-1250/2-SK	6098957	1

Dumeco DDC, 63 A to 1250 A, 1000 V d.c.

DDC with 300 mm shaft and D/P padlockable grey handle with interlock function



6098958

Current rating	Number of poles	Frame size	Part number	Article number	Pack qty
63 A	2P	0	DDC-63/2/M4/P-G	6098922	1
80 A	2P	0	DDC-80/2/M4/P-G	6098925	1
100 A	2P	0	DDC-100/2/M4/P-G	6098928	1
125 A	2P	1	DDC-125/2/M4/P-G	6098932	1
160 A	2P	1	DDC-160/2/M4/P-G	6098935	1
200 A	2P	1	DDC-200/2/M4/P-G	6098938	1
250 A	2P	2	DDC-250/2/M4/P-G	6098942	1
400 A	2P	2	DDC-400/2/M4/P-G	6098945	1
630 A	2P	2	DDC-630/2/M4/P-G	6098948	1
800 A	2P	3	DDC-800/2/M4/P-G	6098952	1
1000 A	2P	3	DDC-1000/2/M4/P-G	6098955	1
1250 A	2P	3	DDC-1250/2/M4/P-G	6098958	1

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DDC in Ci-K enclosure



184916

Current rating	Number of poles	Frame size	Handle colour	Part number	Article number	Pack qty
63 A	2P	0	Red/Yellow	DDC-63/2/I5/P-R	184914	1
63 A	2P	0	Grey	DDC-63/2/I5/P-G	184915	1
80 A	2P	0	Red/Yellow	DDC-80/2/I5/P-R	184916	1
80 A	2P	0	Grey	DDC-80/2/I5/P-G	184917	1
100 A	2P	0	Red/Yellow	DDC-100/2/I5/P-R	184918	1
100 A	2P	0	Grey	DDC-100/2/I5/P-G	184919	1

Handles and shafts for DDC Dumeco (Handles and shaft are to be ordered separately)

Handles mounting types overview

DDC Type	Frame size	K Type handles	A Type handles		D/P Type handles		D/C Type handles	
			Grey	Red	Grey	Red/ Yellow	Grey	Red/ Yellow
DDC without pre-mounted grey handle DDC-2/SK	0	K1	✓	✓	✓	✓		
	1	K2	✓	✓	✓	✓	✓	✓
	2	K3	✓	✓	✓	✓	✓	✓
	3	K4	✓	✓	✓	✓	✓	✓

A Type: Handle mounted directly on switch

D/P Type: Handle padlockable for mounting on hinged door, with interlock function

D/C Type: Handle with cylinder lock for mounting on hinged door, supplied with two keys, with interlock function

See handles dimensions pages 96 to 99

A Type handles

Mounted directly on switch suitable for Dumeco DDC-2/SK Type



K1 A handle
1818200



K2 A handle
1818006



K3 A handle
1818202



K4 A handle
1818010



Shafts

DDC	Frame size	A Type handles Handle colours Grey	Red	Metal shafts Shaft mm□	Length of shafts 300 mm	600 mm	Pack qty
DDC-63/2	0	K1AG 1818200	K1AR 1818002	6 x 6	4K6300MMK1/2S 1319831	4K6600MMK1/2S 1319832	1
DDC-80/2	0						
DDC-100/2	0						
DDC-125/2	1	K2AG 1818201	K2AR 1818006	8 x 8	4K8300MMK2 1319311	4K8600MMK2 1319301	1
DDC-160/2	1						
DDC-200/2	1						
DDC-250/2	2	K3AG 1818202	K3AR 1818111	10 x 10	4K10300MMK3 1319319	4K10600MMK3 1319322	1
DDC-400/2	2						
DDC-630/2	2						
DDC-800/2	3	K4AG 1818203	K4AR 1818010	12 x 12	4K12300MMK4 1319326	4K12600MMK4 1319329	1
DDC-1000/2	3						
DDC-1250/2	3						

Handles and shafts for DDC Dumeco (Handles and shaft are to be ordered separately)

D/P Type handles

Padlockable for mounting on hinged door, with interlock function, suitable for Dumeco DDC-2/SK Type



K1 D/P handle
1818031



K2 D/P handle
1818036



K3 D/P handle
1818069



K4 D/P handle
1818051



Shafts

D/P Type handles **Metal shafts**

DDC	Frame size	Handle colours: Grey	Handle colours: Red/ Yellow	Shaft mm□	Length of shafts: 300 mm	Length of shafts: 600 mm	Pack qty
DDC-63/2	0	K1DG/P 1818031	K1DR/P 1818030	6 x 6	4K6300MMK1/2S 1319831	4K6600MMK1/2S 1319832	1
DDC-80/2	0						
DDC-100/2	0						
DDC-125/2	1	K2DG/P 1818037	K2DR/P 1818036	8 x 8	4K8300MMK2 1319311	4K8600MMK2 1319301	1
DDC-160/2	1						
DDC-200/2	1						
DDC-250/2	2	K3DG/P 1818069	K3DR/P 1818096	10 x 10	4K10300MMK3 1319319	4K10600MMK3 1319322	1
DDC-400/2	2						
DDC-630/2	2						
DDC-800/2	3	K4DG/P 1818052	K4DR/P 1818051	12 x 12	4K12300MMK4 1319326	4K12600MMK4 1319329	1
DDC-1000/2	3						
DDC-1250/2	3						

D/C Type handles

With cylinder lock for mounting on hinged door supplied with two keys, with interlock function, suitable for Dumeco DDC-2/SK Type



K2 D/C handle
1818043



K3 D/C handle
1818097



K4 D/C handle
1818055



Shafts

D/C Type handles **Metal shafts**

DDC	Frame size	Handle colours: Grey	Handle colours: Red/ Yellow	Shaft mm□	Lengths of shafts: 300 mm	Lengths of shafts: 600 mm	Pack qty
DDC-125/2	1	K2DG/C 1818043	K2DR/C 1818042	8 x 8	4K8300MMK2 1319311	4K8600MMK2 1319301	1
DDC-160/2	1						
DDC-200/2	1						
DDC-250/2	2	K3DG/C 1818070	K3DR/C 1818097	10 x 10	4K10300MMK3 1319319	4K10600MMK3 1319322	1
DDC-400/2	2						
DDC-630/2	2						
DDC-800/2	3	K4DG/C 1818055	K4DR/C 1818054	12 x 12	4K12300MMK4 1319326	4K12600MMK4 1319329	1
DDC-1000/2	3						
DDC-1250/2	3						

Accessories for DDC Dumeco

Coupling for extending shaft length for DDC 800 A, 1000 A and 1250 A, frame size 3



6098274

DDC Type	Part number	Article number	Pack qty
Frame size 3	SC4K12/14	6098274	1

Conversion kits for locking the D Type handles in both On and Off position



1818104

DDC Type	Frame size	Part number	Article number	Pack qty
DDC-63	0			1
DDC-80	0	ADAPTORPADLOCK-K1	1818103	1
DDC-100	0			1
DDC-125	1			1
DDC-160	1	ADAPTORPADLOCK-K2	1818104	1
DDC-200	1			1
DDC-250	2			1
DDC-400	2	ADAPTORPADLOCK-K3	1818105	1
DDC-630	2			1
DDC-800	3			1
DDC-1000	3	ADAPTORPADLOCK-K4,K5,K61	1818106	1
DDC-1250	3			1

Multi locking device for accomodating up to 3 additional padlocks



1059849

DDC	Frame size	Shackle	Part number	Article number	Pack qty
DDC 63 to 100 A	0	9 mm	LOCKMULTIPLIER-K1-6	1059849	1
DDC 125 to 200 A	1	9 mm			1
DDC 250 to 630 A	2	9 mm			1
DDC 800 to 1250 A	3	9 mm			1

Connection kit



1314915

DDC	Frame size	Bolt size	Part number	Article number	Pack qty
DDC 125 to 200 A	1	M8 x 20 mm	KITM8X20	1314927	1
DDC 250 to 630 A	2	M10 x 20 mm	KITM10X20	1314915	1
		M10 x 30 mm	KITM10X30	1314648	1
DDC 800 to 1250 A	3	M12 x 35 mm	KITM12X35	1314857	1

Terminal covers



1319413

DDC	Frame size	Bolt size	Part number	Article number	Pack qty
DDC 125 to 200 A	1	M8	QSACOVER1PM8	1319411	1
DDC 250 to 630 A	2	M10	QSACOVER1PM10	1319413	1
DDC 800 to 1250 A	3	M12	QSACOVER1PM12	1319415	1

Auxiliary contact set



6028293

DDC	Frame size	Mounting	Part number	Article number	Pack qty
DDC 63 to 100 A	0	1 Auxiliary contact per switch	AUX1NO+1NC+BOX012	6028293	1
DDC 125 to 200 A	1	2 Auxiliary contacts per switch			1
DDC 250 to 630 A	2	2 Auxiliary contacts per switch			1
DDC 800 to 1250 A	3	1 Auxiliary contact per switch	AUX1NO+1NC+BOX3	6101137	1

Technical data for DDC Dumeco

DDC 63 A to 200 A, frame sizes 0 and 1

			Frame size 0			Frame size 1		
			DDC 63	DDC 80	DDC 100	DDC 125	DDC 160	DDC 200
Conventional free air thermal current	I_{th}		63 A	80 A	100 A	125 A	160 A	200 A
Conventional enclosed thermal current	I_{the}	35°C	63 A	80 A	100 A	125 A	160 A	200 A
		50°C	63 A	80 A	100 A	125 A	160 A	200 A
		65°C	63 A	80 A	100 A	125 A	160 A	200 A
Rated uniterrupted current	I_u		63 A	80 A	100 A	125 A	160 A	200 A
Rated operational voltage	U_e		1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Rated insulation voltage	U_i		1100 V	1100 V	1100 V	1200 V	1200 V	1200 V
Rated impulse withstand voltage	U_{imp}		8 kV	8 kV	8 kV	8 kV	8 kV	8 kV
Storage temperature			-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C
Max altitude (without derating)			≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m
Rated operational current								
DC-21B								
At U_e = 480 V DC-21B	I_e		63 A	80 A	100 A	125 A	160 A	200 A
At U_e = 600 V DC-21B	I_e		63 A	80 A	100 A	125 A	160 A	200 A
At U_e = 1000 V DC-21B	I_e		63 A	80 A	100 A	125 A	160 A	200 A
Rated short-time withstand current	I_{cw}		3 kAs - 1 s	3 kAs	3 kAs	4 kAs	4 kAs	4 kAs
Rated short-circuit making capacity	I_{cm}		4.3 kA	4.3 kA	4.3 kA	6 kA	6 kA	6 kA
Power dissipation per pole	I_{th}		3 W	4 W	6 W	8 W	12 W	21 W
Durability - maximum cycles (on+off)			10000	10000	10000	10000	10000	10000
Pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Protection class			IP20	IP20	IP20	IP20	IP20	IP20
Terminal capacities								
Terminal bolt size			-	-	-	M8	M8	M8
Cross section								
Stranded			6 - 35 mm^2	6 - 35 mm^2	6 - 35 mm^2	120 mm^2	120 mm^2	120 mm^2
Flexible			6 - 25 mm^2	6 - 25 mm^2	6 - 25 mm^2	-	-	-
Busbars			-	-	-	1 x 30 x 3 2 x 20 x 3	1 x 30 x 3 2 x 20 x 3	1 x 30 x 3 2 x 20 x 3
Terminal tightening torque			3 Nm	3 Nm	3 Nm	14 Nm	14 Nm	14 Nm
Standards			IEC 60947-3					
Certification			CE, RoHS, CCC					

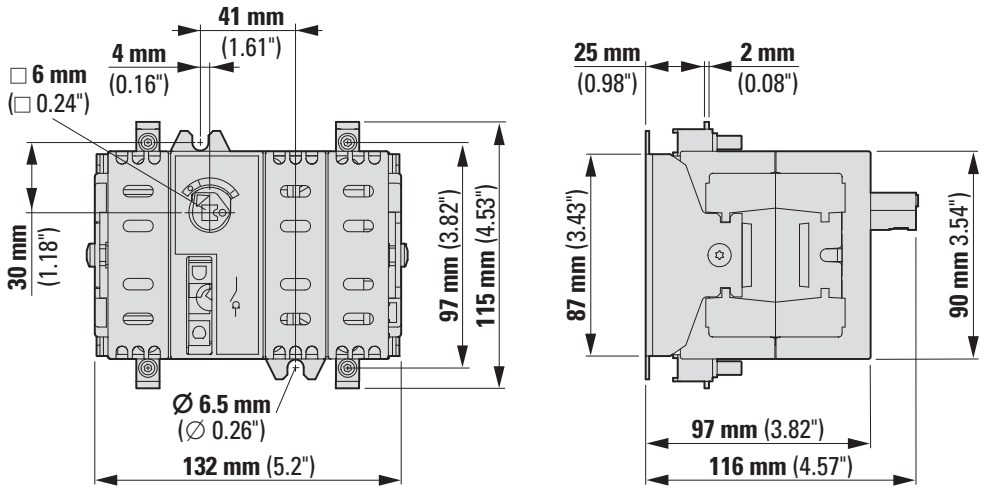
Technical data for DDC Dumeco

DDC 250 A to 1250 A, frame sizes 2 and 3

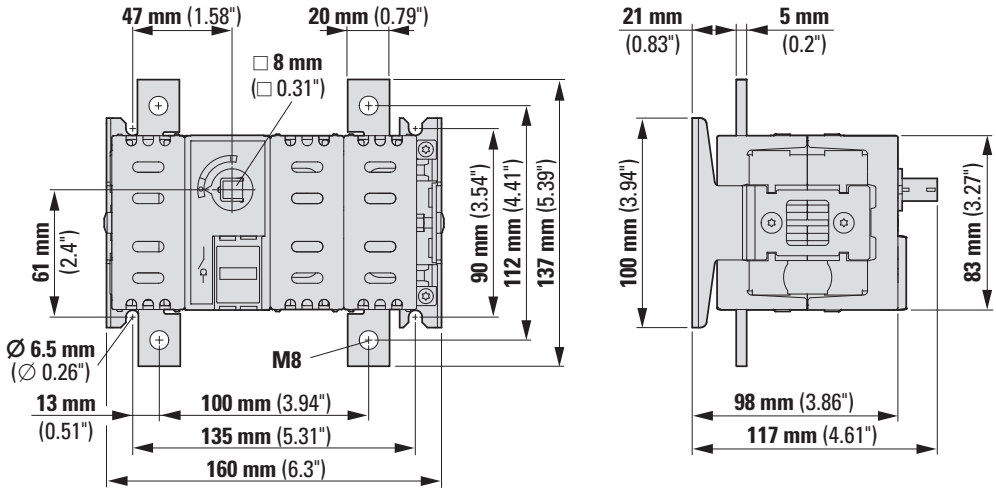
			Frame size 2			Frame size 3		
			DDC 250	DDC 400	DDC 630	DDC 800	DDC 1000	DDC 1250
Conventional free air thermal current	I_{th}		250 A	400 A	630 A	800 A	1000 A	1250 A
Conventional enclosed thermal current	I_{the}	35°C	250 A	400 A	630 A	800 A	1000 A	1250 A
		50°C	250 A	400 A	560 A	800 A	1000 A	1250 A
		65°C	250 A	380 A	480 A	700 A	900 A	1000 A
Rated uninterrupted current	I_u		250 A	400 A	630 A	800 A	1000 A	1250 A
Rated operational voltage	U_e		1000	1000	1000	1000	1000	1000
Rated insulation voltage	U_i		1200 V	1200 V	1200 V	1200 V	1200 V	1200 V
Rated impulse withstand voltage	U_{imp}		12 kV	12 kV	12 kV	12 kV	12 kV	12 kV
Storage temperature			-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C
Max altitude (without derating)			≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m	≤ 2000 m
Rated operational current								
DC-21B								
At U_e = 480 V DC-21B	I_e		250 A	400 A	630 A	800 A	1000 A	1250 A
At U_e = 600 V DC-21B	I_e		250 A	400 A	630 A	800 A	1000 A	1250 A
At U_e = 1000 V DC-21B	I_e		250 A	400 A	630 A	800 A	1000 A	1250 A
Rated short-time withstand current	I_{cw}		15 kAs	15 kAs	15 kAs	25 kAs	25 kAs	25 kAs
Rated short-circuit making capacity	I_{cm}		25 kA	25 kA	25 kA	54.5 kA	54.5 kA	54.5 kA
Power dissipation per pole	I_{th}		15 W	39 W	97 W	34 W	53 W	83 W
Durability - maximum cycles (on+off)			10000	10000	10000	5000	5000	5000
Pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Protection class			IP20	IP20	IP20	IP20	IP20	IP20
Terminal capacities								
Terminal bolt size			M10	M10	M10	M12	2 x M12	2 x M12
Cross section								
Stranded			240 mm^2	240 mm^2	185 mm^2 x 2	240 mm^2 x 2	-	-
Busbars			1 x 25 x 6	2 x 25 x 6	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5	2 x 80 x 5
Terminal tightening torque			20 Nm	20 Nm	20 Nm	28 Nm	28 Nm	28 Nm
Standards			IEC 60947-3					
Certification			CE, RoHS, CCC					

Outline drawings for DDC Dumeco (Dimensions are in mm)

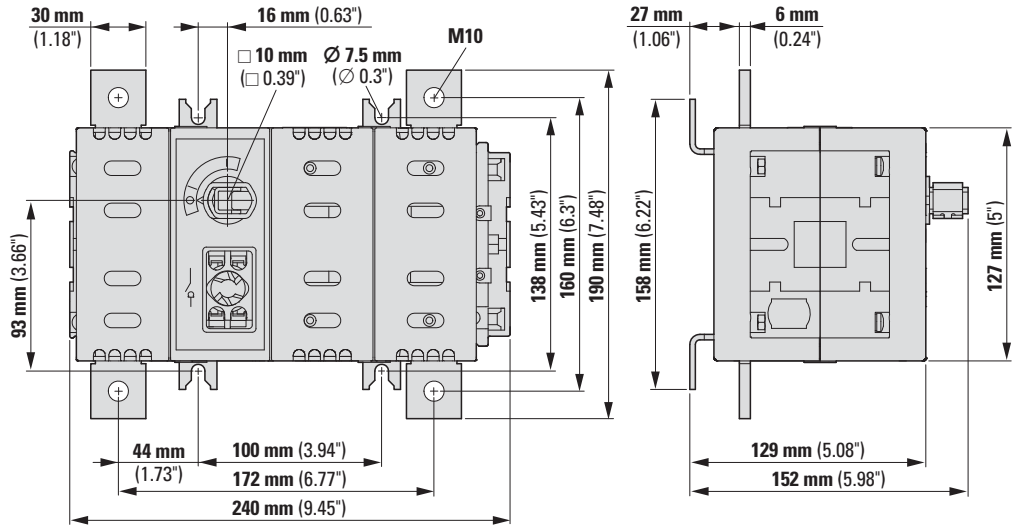
DDC Frame size 0 - 63 A, 80 A and 100 A



DDC Frame size 1 - 125 A, 160 A and 200 A

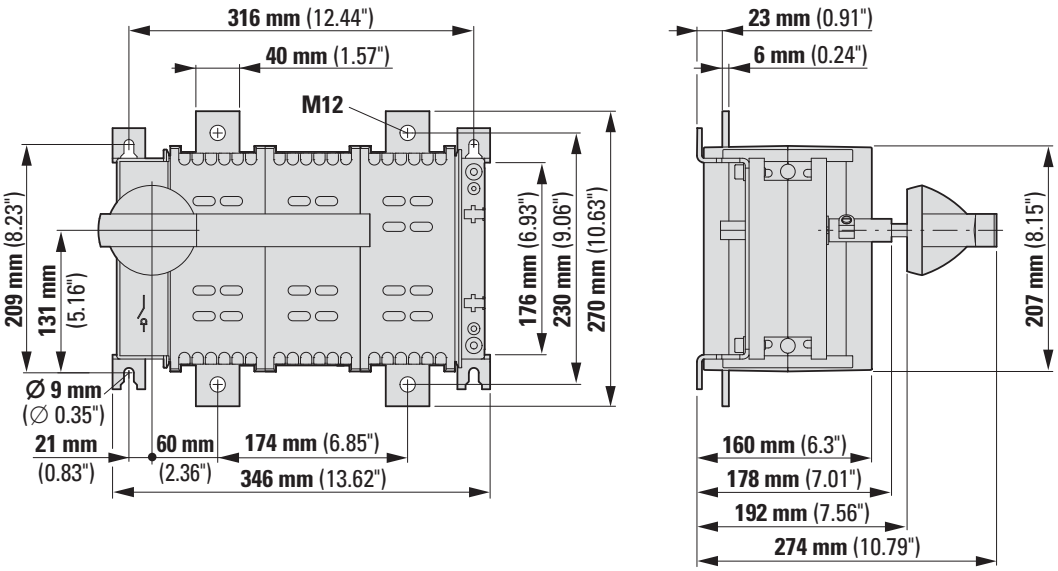


DDC Frame size 2 - 250 A, 400 A and 630 A

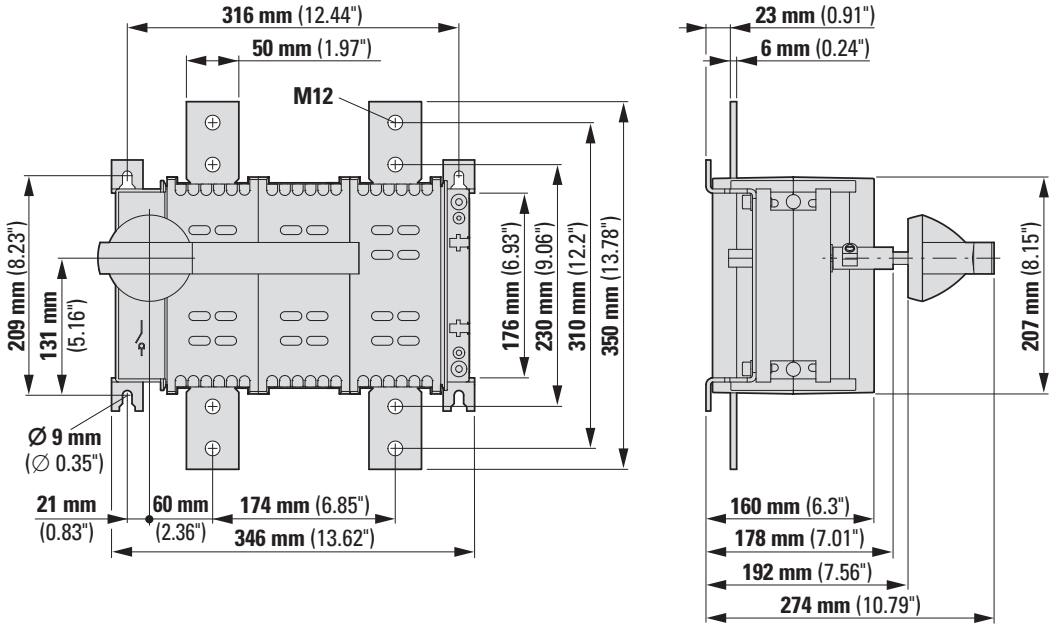


Outline drawings for DDC Dumeco (Dimensions are in mm)

DDC Frame size 3 - 800 A



DDC Frame size 3 - 1000 A and 1250 A

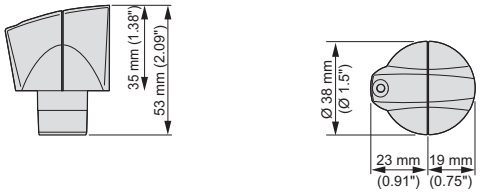


K Type handles dimensions

A Type handles - dimensions mm

Handle mounted directly on switch

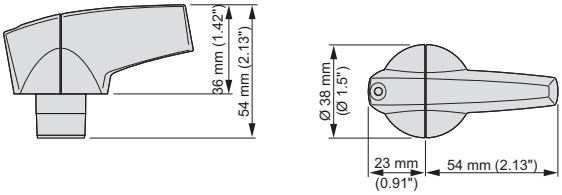
K1 'A' handle





K1 A handle
1818001

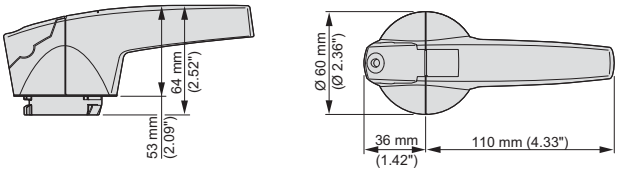
K2S and K2 'A' handle





K2 A handle
1818004

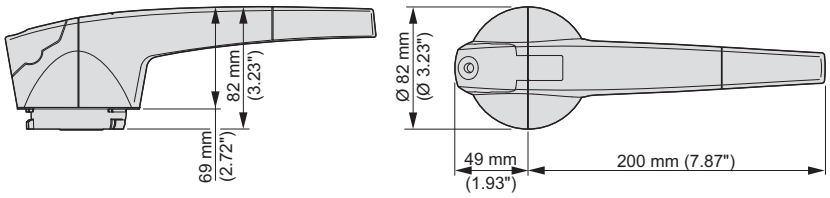
K3 'A' handle





K3 A handle
1818202

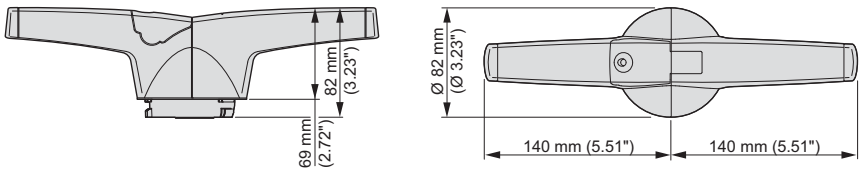
K4 'A' handle





K4A handle
1818009

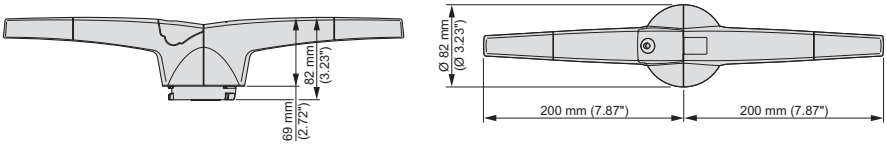
K5 'A' handle





K5 A handle
1818012

K6 'A' handle





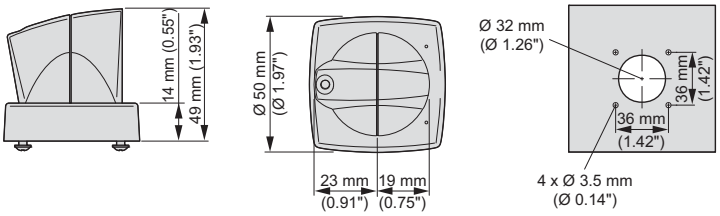
K6 A handle
1818013

10

C Type handles - dimensions mm

Without interlock function, for example when mounted on the cover of Eaton's Halyester enclosure range

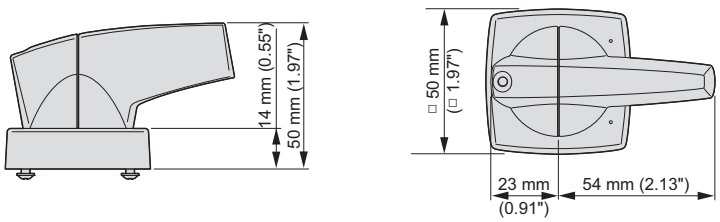
K1 'C' handle





K1 C handle

K2S and K2 'C' handle

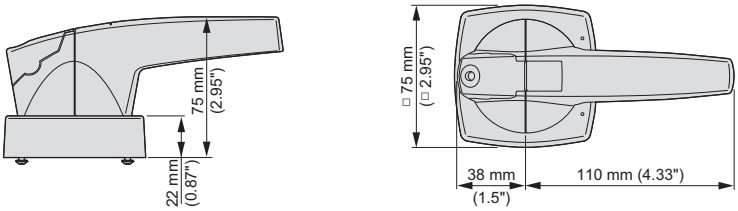




K2 handle
1818018

10

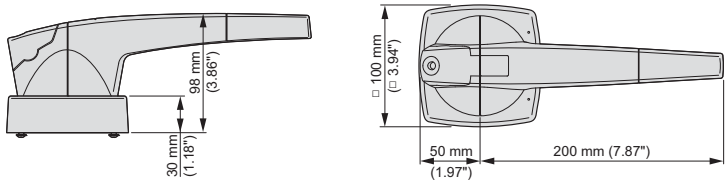
K3 'C' handle





K3 C handle
1818068

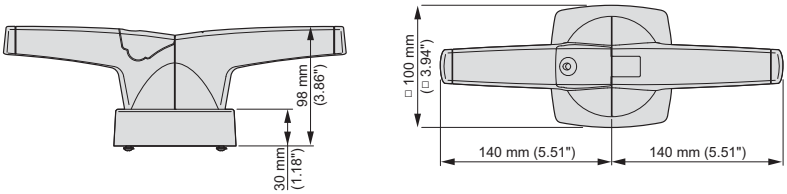
K4 'C' handle





K4 C handle
1818024

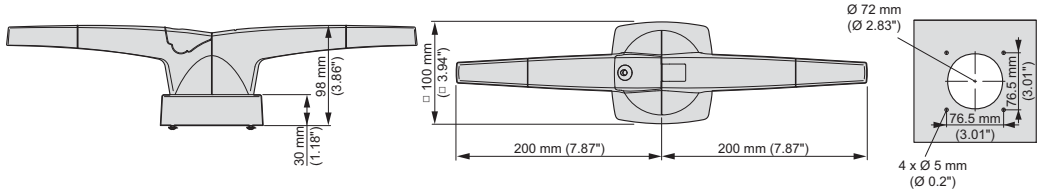
K5 'C' handle





1818026

K6 'C' handle





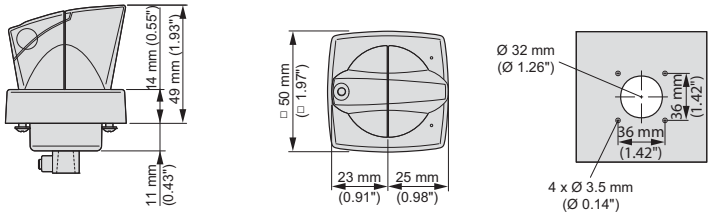
1818027

K Type handles dimensions

D/P handles - dimensions mm

Handle padlockable for mounting on hinged door, with interlock function

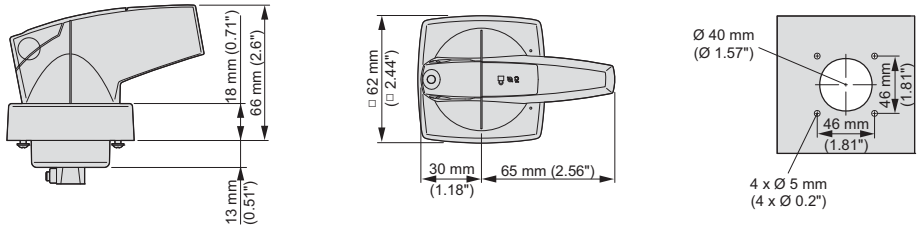
K1 'D/P' handles





K1 D/P handle
1818029

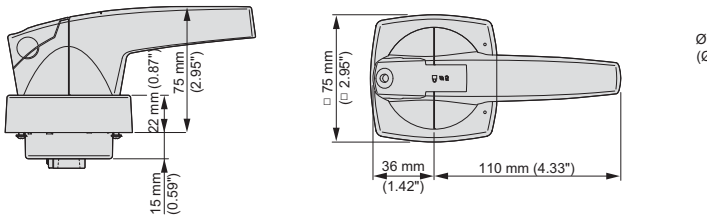
K2S and K2 'D/P handles





K2 D/P handle
1818033

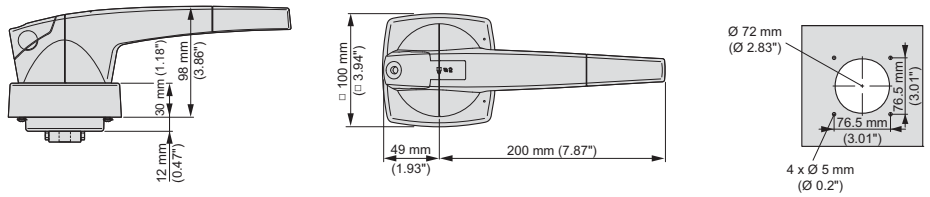
K3 'D/P handles





K3 D/P handle
1818069

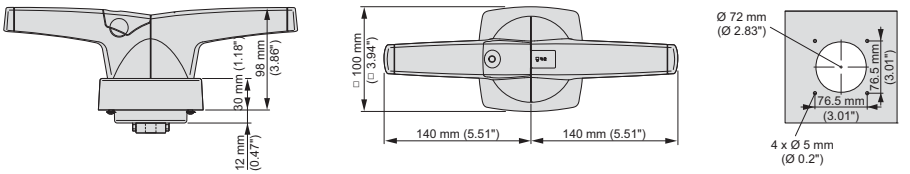
K4 'D/P handles





K4 D/P handle
1818113

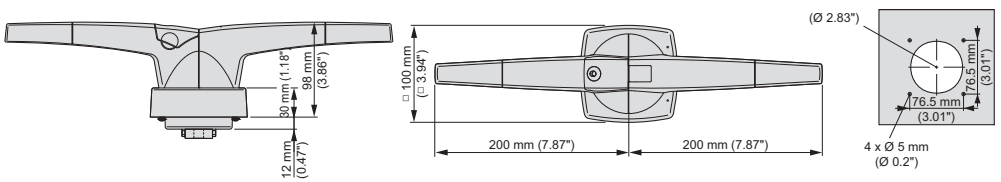
K5 'D/P handles





K5 D/P handle
1818057

K6 'D/P handles



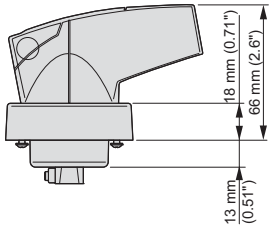


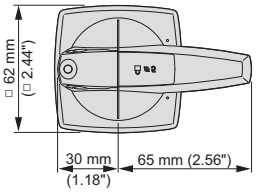
K6 D/P handle
1818064

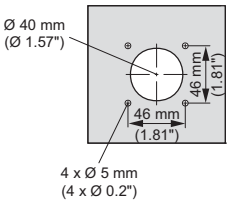
D/C Type handles - dimensions mm

Handle with cylinder lock for mounting on hinged door, supplied with two keys,with interlock function

K2S and K2 'D/C' handle



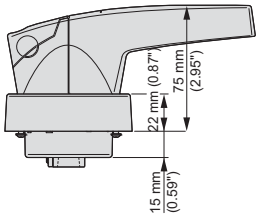


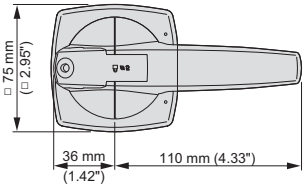


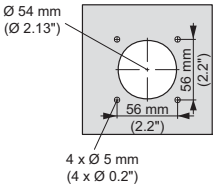


K2 D/C handle
1818038

K3 'D/C' handle



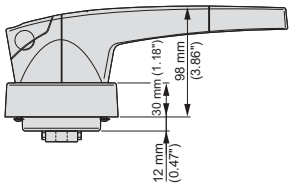


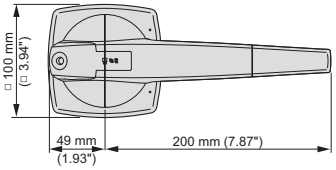


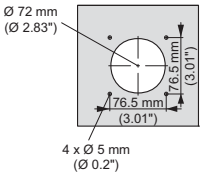


K3 D/C handle
1818097

K4 D/C' handles



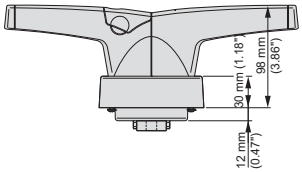


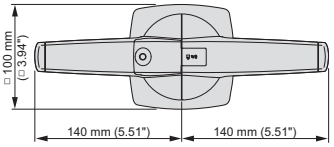


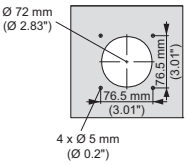


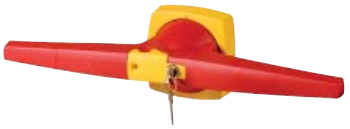
K4 D/C handle
1818055

K5 'D/C' handles



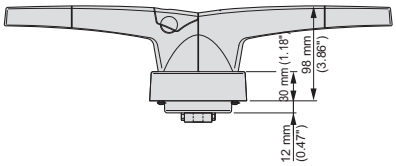


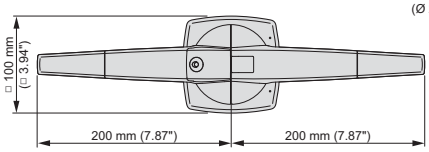


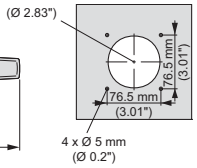


K5 D/C handle
1818060

K6 'D/C' handles









K6 D/C handle
1818067

10

Compact circuit protector UL 98 Class CF disconnect switches up 100 A

CCP2 class CF 30 A to 100 A, up to 600 V a.c./125 V d.c.



Right front rotary operated CCP2 switch with PLC fuse monitor.

Description

The revolutionary, next generation Bussmann™ series Compact Circuit Protector (CCP2) is a fused UL® 98 branch circuit disconnect switch utilizing the UL Class CF time-delay or fast-acting CUBEFuse™. With 2/3 the footprint of a traditional fusible solution, these switches provide a high 200 kA SCCR to help improve panel and assembly SCCR.

Standards/Approvals

- UL 98 Listed, Guide WHTY, File E302370
- cULus to Canadian Standard 2.2 No. 4-04, Guide WHTYZ, File 302370
- RoHS compliant
- CE

Technical data

- Voltage:
  - 347 V a.c. (1-pole switches)
  - 600 V ac. (2 and 3-pole switches)
  - 125 V d.c. (1- and 2-pole switches)
  - Current: 30 A, 60 and 100 A
- SCCR:
  - 200 kA RMS Sym
  - 100 kA DC
- 1-pole, 2-pole and 3-pole

Features

- Uses UL Class CF time-delay or fast-acting CUBEFuse with Class J electrical performance
- Extremely compact design at 25.4 mm (1 inch) wide per pole
- Amp rating rejecting disconnects will not accept a CUBEFuse amp rating greater than switch
- Visible contact separation
- Full voltage rated at 347 V a.c. (1-pole switches) and 600 V a.c. (2 and 3-pole switches)

See further details www.eaton.com/bussmannseries, data sheet 10801

CCP2 class CF 30 A to 100 A, up to 600 V a.c./125 V d.c.

CCP2 class CF range overview

	30 A	60 A	100 A
Switch only	✓	✓	✓
Right front rotary, clockwise operated switch	✓	✓	✓
Left front rotary, clockwise operated switch	✓	✓	✓
Right side rotary, clockwise operated switch	✓	✓	✓
Left side rotary, counterclockwise operated switch	✓	✓	✓

CCP2 class CF switch only



CCP2 switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
CCP2-1-30CF	30 A	1P	347 V a.c./125 V d.c.	1.5	-	-	-	12
CCP2-2-30CF	30 A	2P	600 V a.c./125 V d.c.	-	3	-	-	6
CCP2-3-30CF	30 A	3P	600 V a.c.	-	5	15	10	4
CCP2-1-60CF	60 A	1P	347 V a.c./125 V d.c.*	3	-	-	-	12
CCP2-2-60CF	60 A	2P	600 V a.c./125 V d.c.*	-	7.5	-	-	6
CCP2-3-60CF	60 A	3P	600 V a.c.	-	7.5	20	10	4
CCP2-1-100CF	100 A	1P	347 V a.c./125 V d.c.**	5	-	-	-	6
CCP2-2-100CF	100 A	2P	600 V a.c./125 V d.c.**	-	10	-	-	3
CCP2-3-100CF	100 A	3P	600 V a.c.	-	20	50	40	2

CCP2 class CF right front rotary, clockwise operated switch



CCP2 right front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
CCP2R-2-30CF	30 A	2P	600 V a.c./125 V d.c.	-	3	-	-	1
CCP2R-3-30CF	30 A	3P	600 V a.c.	-	5	15	10	1
CCP2R-2-60CF	60 A	2P	600 V a.c./125 V d.c.*	-	7.5	-	-	1
CCP2R-3-60CF	60 A	3P	600 V a.c.	-	7.5	20	10	1
CCP2R-2-100CF	100 A	2P	600 V a.c./125 V d.c.**	-	10	-	-	1
CCP2R-3-100CF	100 A	3P	600 V a.c.	-	20	50	40	1

CCP2 class CF left front rotary, clockwise operated switch



CCP2 left front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
CCP2RL-2-30CF	30 A	2P	600 V a.c./125 V d.c.	-	3	-	-	1
CCP2RL-3-30CF	30 A	3P	600 V a.c.	-	5	15	10	1
CCP2RL-2-60CF	60 A	2P	600 V a.c./125 V d.c.*	-	7.5	-	-	1
CCP2RL-3-60CF	60 A	3P	600 V a.c.	-	7.5	20	10	1
CCP2RL-2-100CF	100 A	2P	600 V a.c./125 V d.c.**	-	10	-	-	1
CCP2RL-3-100CF	100 A	3P	600 V a.c.	-	20	50	40	1

* 125 V d.c. for installed amp ratings up to 40 A, 24 V d.c. for installed fuse amp ratings from 45 to 60 A
** 125 V d.c. for installed amp ratings up to 80 A, 24 V d.c. for installed fuse amp ratings from 90 to 100 A

See further details www.eaton.com/bussmannseries, data sheet 10801

Compact circuit protector UL 98 Class CF disconnect switches up 100 A

CCP2 Class CF 30 A to 100 A, up to 600 V a.c./125 V d.c.

CCP2 class CF right side rotary, clockwise operated switch



CCP2 right side rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
CCP2S-2-30CF	30 A	2P	600 V a.c./125 V d.c.	-	3	-	-	1
CCP2S-3-30CF	30 A	3P	600 V a.c.	-	5	15	10	1
CCP2S-2-60CF	60 A	2P	600 V a.c./125 V d.c.*	-	7.5	-	-	1
CCP2S-3-60CF	60 A	3P	600 V a.c.	-	7.5	20	10	1
CCP2S-2-100CF	100 A	2P	600 V a.c./125 V d.c.**	-	10	-	-	1
CCP2S-3-100CF	100 A	3P	600 V a.c.	-	20	50	40	1

CCP2 class CF left side rotary, counterclockwise operated switch



CCP2 left side rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
CCP2SL-2-30CF	30 A	2P	600 V a.c./125 V d.c.	-	3	-	-	1
CCP2SL-3-30CF	30 A	3P	600 V a.c.	-	5	15	10	1
CCP2SL-2-60CF	60 A	2P	600 V a.c./125 V d.c.*	-	7.5	-	-	1
CCP2SL-3-60CF	60 A	3P	600 V a.c.	-	7.5	20	10	1
CCP2SL-2-100CF	100 A	2P	600 V a.c./125 V d.c.**	-	10	-	-	1
CCP2SL-3-100CF	100 A	3P	600 V a.c.	-	20	50	40	1

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* 125 V d.c. for installed amp ratings up to 40 A, 24 V d.c. for installed fuse amp ratings from 45 to 60 A
** 125 V d.c. for installed amp ratings up to 80 A, 24 V d.c. for installed fuse amp ratings from 90 to 100 A

Handles and shafts for CCP2 class CF (Handles and shaft are to be ordered separately)

Handles mounting types overview

CCP2	Shaft square mm ☐	Selector handles clockwise		Selector handles counterclockwise		Pistol handles clockwise		Pistol handles counterclockwise	
		Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow
CCP2R-(pole)-30CF	8 x 8	✓	✓			✓	✓		
CCP2R-(pole)-60CF	8 x 8	✓	✓			✓	✓		
CCP2R-(pole)-100CF	8 x 8	✓	✓			✓	✓		
CCP2RL-(pole)-30CF	8 x 8	✓	✓			✓	✓		
CCP2RL-(pole)-60CF	8 x 8	✓	✓			✓	✓		
CCP2RL-(pole)-100CF	8 x 8	✓	✓			✓	✓		
CCP2S-(pole)-30CF	8 x 8	✓	✓			✓	✓		
CCP2S-(pole)-60CF	8 x 8	✓	✓			✓	✓		
CCP2S-(pole)-100CF	8 x 8	✓	✓			✓	✓		
CCP2SL-(pole)-30CF	8 x 8			✓	✓			✓	✓
CCP2SL-(pole)-60CF	8 x 8			✓	✓			✓	✓
CCP2SL-(pole)-100CF	8 x 8			✓	✓			✓	✓

See further details www.eaton.com/bussmannseries, data sheet 10801

Handles and shafts for CCP2 class CF (Handles and shaft are to be ordered separately)

Selector and pistol clockwise handles



Selector handle
CCP2-H4X-B1



Selector handle
CCP2-H4X-R1



Pistol handle
CCP2-H4X-B2



Pistol handle
CCP2-H4X-R2



Shafts
CCP-SH1

		Selector handles		Pistol handles		Metal shafts			
		Handle colours		Handle colours			Shaft length		
CCP2 class CF	Description	Black/Grey	Red/ Yellow	Black/Grey	Red/ Yellow	Shaft mm□	290 mm	490 mm	Pack qty
CCP2R-(pole)-30CF	Right front rotary switch clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2R-(pole)-60CF									
CCP2R-(pole)-100CF									
CCP2RL-(pole)-30CF	Left front rotary switch clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2RL-(pole)-60CF									
CCP2RL-(pole)-100CF									
CCP2S-(pole)-30CF	Right side rotary switch, clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2S-(pole)-60CF									
CCP2S-(pole)-100CF									

Selector and pistol counterclockwise handles



Selector handle
CCP2-H4X-B1L



Selector handle
CCP2-H4X-R1L



Pistol handle
CCP2-H4X-B2L



Pistol handle
CCP2-H4X-R2L



Shafts
CCP-SH1

		Selector handles		Pistol handles		Metal shafts			
		Handle colours		Handle colours			Shaft length		
CCP2 Class CF	Description	Black/Grey	Red/ Yellow	Black/Grey	Red/ Yellow	Shaft mm□	290 mm	490 mm	Pack qty
CCP2SL-(pole)-30CF	Left side rotary switch, counterclockwise handle	CCP2-H4X-B1L	CCP2-H4X-R1L	CCP2-H4X-B2L	CCP2-H4X-R2L	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2SL-(pole)-60CF									
CCP2SL-(pole)-100CF									

See further details www.eaton.com/bussmannseries, data sheet 10801

Accessories for CCP2 Class CF

Multi-wire lug kits



CCP2-MW1-3



CCP2-MW1-6

Article number	Description	Suitable for CCP2	Pack qty
CCP2-MW1-3	3-port multi-wire, 75°C Cu.Al, 6-14 includes terminal shield	30 A and 60 A	3
CCP2-MW1-6	6-port multi-wire, 75°C Cu.Al, 6-14 includes terminal shield	100 A	3

Terminal shrouds



CCP2-TS1-3



CC2-TS1-6

Article number	Suitable for CCP2	Pack qty
CCP2-TS1-3	30 A and 60 A	3
CCP2-TS1-6	100 A	3

Auxiliary contacts



CCP2-AUX

Article number	Description	Suitable for CCP2	CCP Type	Pack qty
CCP2-AUX	NO + NC, 5A /240 V a.c., mounts on right side	CCP2-(poles)-30CF	Switch only	3
		CCP2-(poles)-60CF		
	NO + NC, 5A /240 V a.c.	CCP2RL-(poles)-30CF	Left front rotary	3
		CCP2RL-(poles)-60CF		
	NO + NC, 5A /240 V a.c., mounts on right side	CCP2SL-(poles)-30CF	Left side rotary	3
		CCP2SL-(poles)-60CF		
CCP2-AUX-100	NO + NC, 5A /240 V a.c., mounts on right side, cannot be used with flange rod handle	CCP2-(poles)-100CF	Switch only	3
	NO + NC, 5A /240 V a.c.	CCP2RL-(poles)-100CF	Left front rotary	3
	NO + NC, 5A /240 V a.c., mounts on right side	CCP2SL-(poles)-100CF	Left side rotary	3

PLC fuse monitor



CCP2-PLC-IND

Article number	Description	Suitable for CCP2	CCP Type	Pack qty
CCP2-PLC-IND	Signal output 24 V d.c./10 mA mounts on left side	CCP2-(poles)-30CF	Switch only	3
		CCP2-(poles)-60CF		
	Signal output 24 V d.c./10 mA	CCP2R-(poles)-30CF	Right front rotary	3
		CCP2R-(poles)-60CF		
	Signal output 24 V d.c./10 mA	CCP2S-(poles)-30CF	Right side rotary	3
		CCP2S-(poles)-60CF		
CCP2-PLC-100	Signal output 24 V d.c./10 mA, mounts on left side, cannot be used with flange rod handle	CCP2-(poles)-100CF	Switch only	3
	Signal output 24 V d.c./10 mA	CCP2R-(poles)-100CF	Right front rotary	3
	Signal output 24 V d.c./10 mA	CCP2S-(poles)-100CF	Right side rotary	3

See further details www.eaton.com/bussmannseries, data sheet 10801

Technical data for CCP2 Class CF

	CCP2 Class CF 30 A, 60 A and 100 A
Rated voltage	347 V a.c. (1-pole switches) 600 V a.c. (2 and 3-pole switches) 125 V d.c.*
SCCR	200 kA AC and 100 kA DC
Poles	1-pole, 2-pole and 3-pole
Conductors/terminals	75oC Cu, see conductor tables for size, type and torque information Box lug, single/dual indicator Fork terminal suitable for line, load or accessory connection, max. 30 A suitable for use with - 10-24 screw for 30 A and 60 A switches - 1/4-28 screw for 100 A switches
Local open fuse indication minimum voltage (Open fuse indication requires an open fuse to be in the CCP2 and the switch in the ON position)	90 V a.c for AC switches 12 V d.c. for DC switches
Storage and operating temperature	-20°C to 75°C For fuse performance under or above 25oC, consult fuse performance derating charts in the Bussmann division publication no 3002, titled Selecting Protection Devices (SPD)
Lockout/tag provisions	1/4" lock, direct use on switches without rotary mechanisms requires a lock with a straight shank of sufficient length to engage all poles
Minimum enclosure size	254 x 203 x 152 mm for 30 and 60 A switch 356 x 305 x 152 mm for 100 switch
Mounting	35 mm DIN-Rail
Data sheet	10801
Agency information	UL 98 Listed, Guide WHTY, File E302370 cULus to Canadian Standard 2.2 NO 4-04, Guide WHTY7 File 302370 RoHS compliant CE

* Switch amp rating and installed fuse amp rating dependent

Box lug terminal conductor data

Wire type	AWG range	Class	Quantity	Torque N•m (lb-in)
30 and 60 A switches				
75°C Cu	4-6	Stranded, Class B to K	Single	3.95 (35)
	8-18			2.26 (20)
	6-8	Stranded, Class B/C	Dual	3.39 (30)
		Stranded, Class K		2.26 (20)
	10-18	Stranded, Class B to K		
	10-18	Solid	Single/dual	2.26 (20)
	4-18	Stranded, UL ferrule, Class B/C	Single	3.39 (30)
	6-18		Twin†	
	4-18	Stranded, UL ferrule, Class K	Single	2.82 (25)
	6-18		Twin†	

† Two stranded conductors placed in one UL Listed twin ferrule.

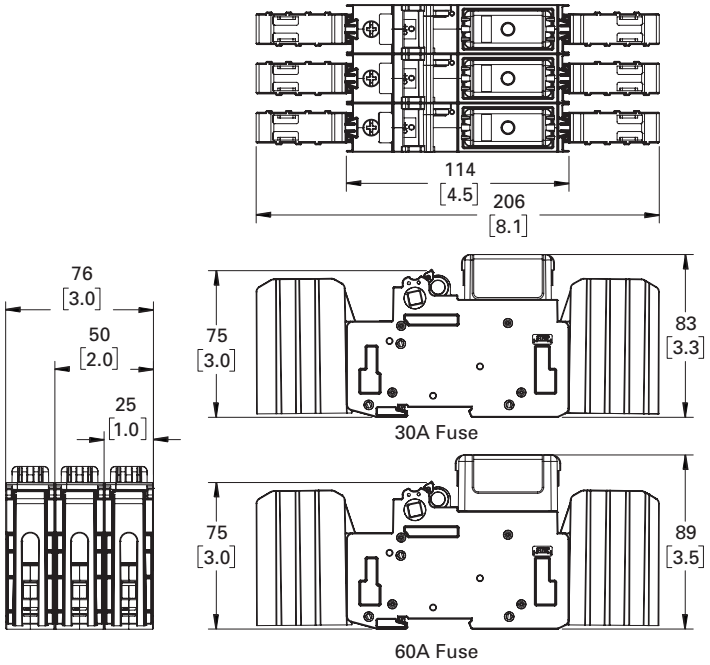
Wire type	AWG range	Class	Quantity	Torque N•m (lb-in)
100 A switches				
75°C Cu	12-18	Stranded, Class B/C	Single	2.26 (20)
	10			2.82 (25)
	8			4.52 (40
	4-6			5.08 (45)
	1-3			6.21 (55)
	4-12		Dual	5.08 (45)
	12-18	Stranded, UL ferrule, Class B/C	Single	2.26 (20)
	10			3.95 (35)
	1-8			4.52 (40)
	10-18		Twin†	2.26 (20)
	6-9			2.82 (25)
	10-18	Solid	Single/Dual	2.26 (20)
	8-18	Class K	Single	2.26 (20)
	1-7			3.39 (30)
	3-10		Dual	5.08 (45)
	8-18	Class K, UL ferrule	Single	2.26 (20)
	1-7			3.39 (30)
	6-18		Twin	2.26 (20)

† Two stranded conductors placed in one UL Listed twin ferrule.

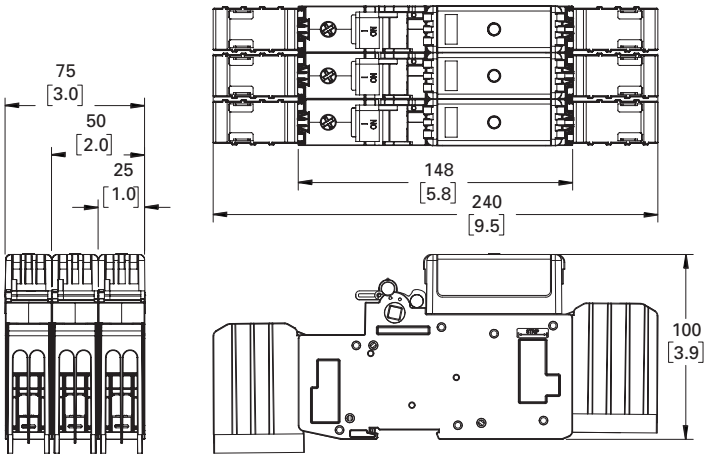
See further details www.eaton.com/bussmannseries, data sheet 10801

Outline drawings for CCP2 class CF (Dimensions are in mm (in))

30 A and 60 A Switch only (shown with optional terminal shrouds)



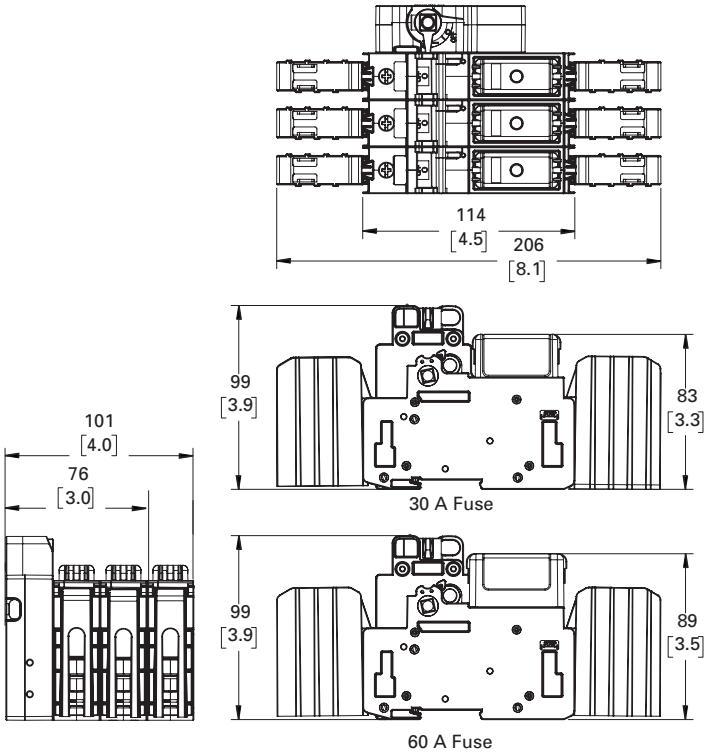
100 A Switch only (shown with optional terminal shrouds)



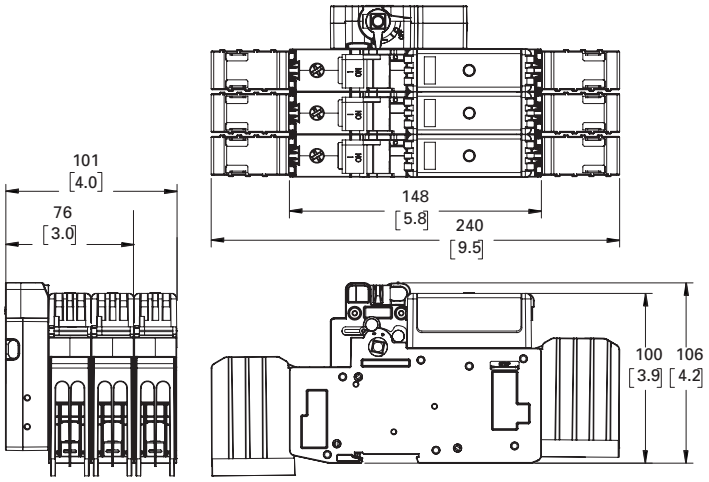
See further details www.eaton.com/bussmannseries, data sheet 10801

Outline drawings for CCP2 class CF (Dimensions are in mm (in))

30 A and 60 A Right front rotary switches (shown with optional terminal shrouds)



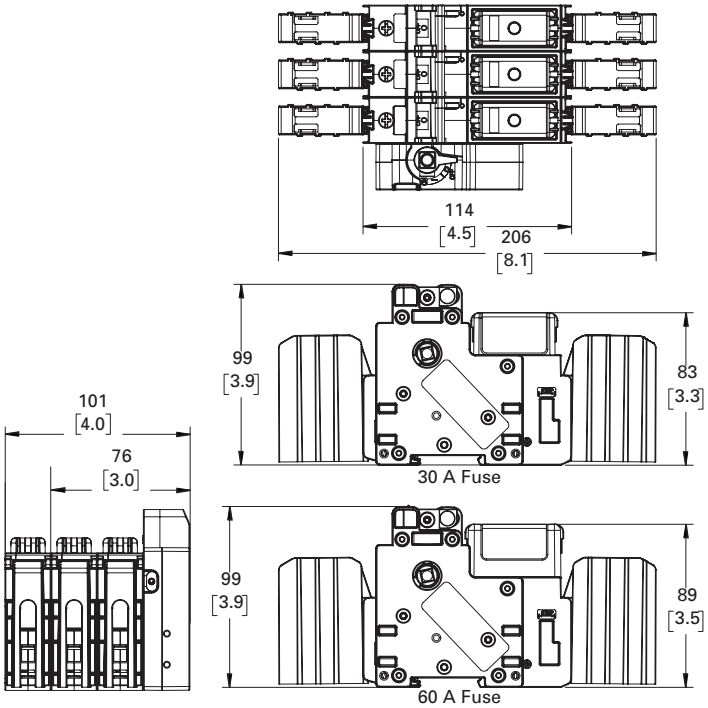
100 A Right front rotary switches (shown with optional terminal shrouds)



See further details www.eaton.com/bussmannseries, data sheet 10801

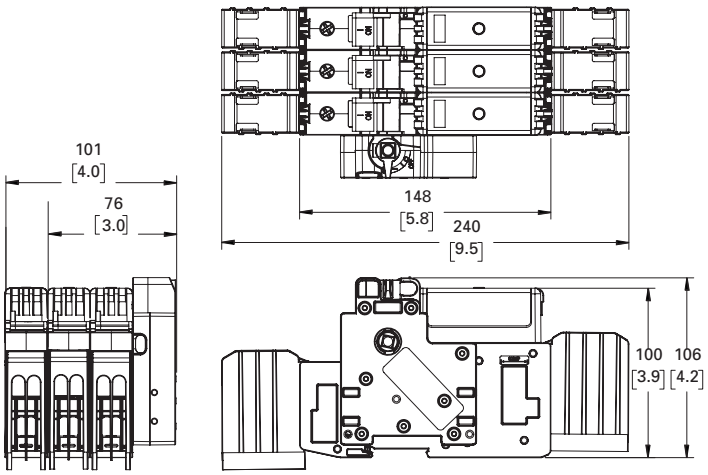
Outline drawings for CCP2 class CF (Dimensions are in mm (in))

30 A and 60 A Left front rotary switches (shown with optional terminal shrouds)



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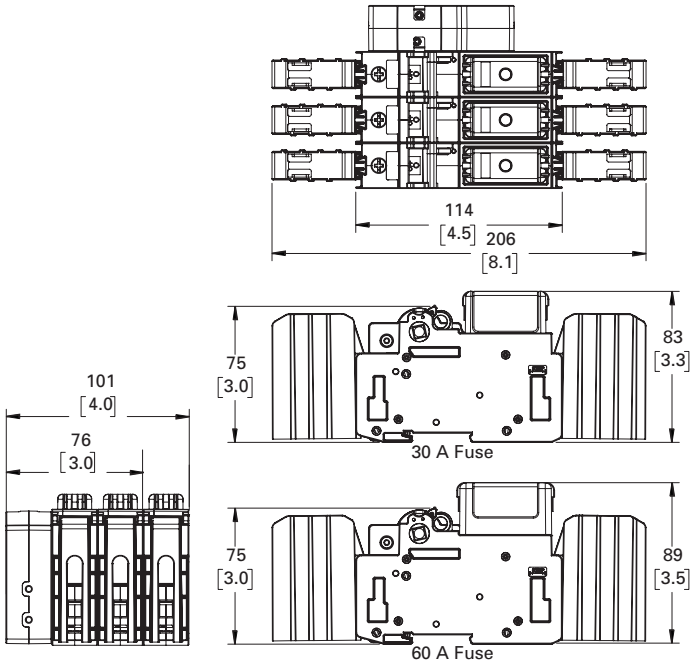
100 A Left front rotary switches (shown with optional terminal shrouds)



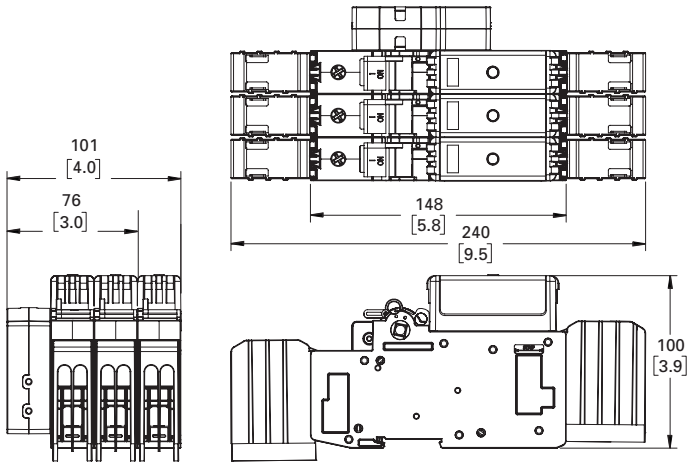
See further details www.eaton.com/bussmannseries, data sheet 10801

Outline drawings for CCP2 class CF (Dimensions are in mm (in))

30 A and 60 A Right side rotary switches (shown with optional terminal shrouds)



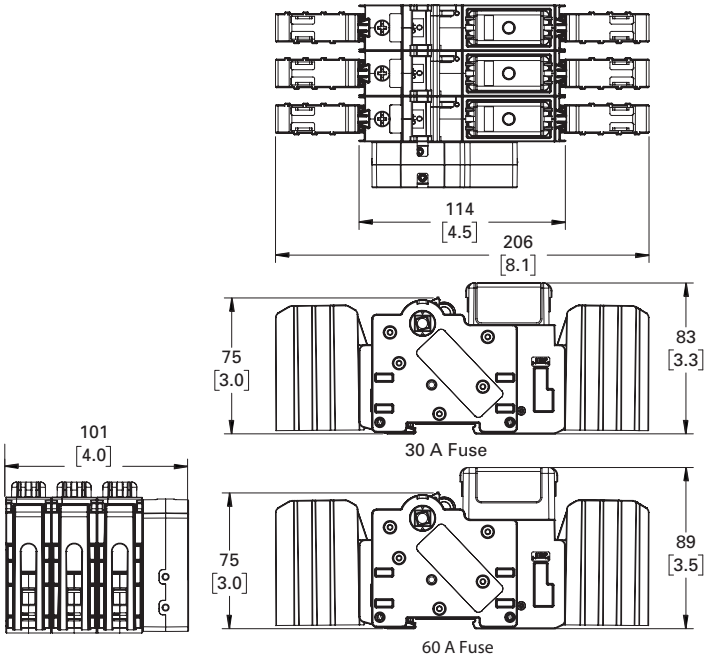
100 A Right side rotary switches (shown with optional terminal shrouds)



See further details www.eaton.com/bussmannseries, data sheet 10801

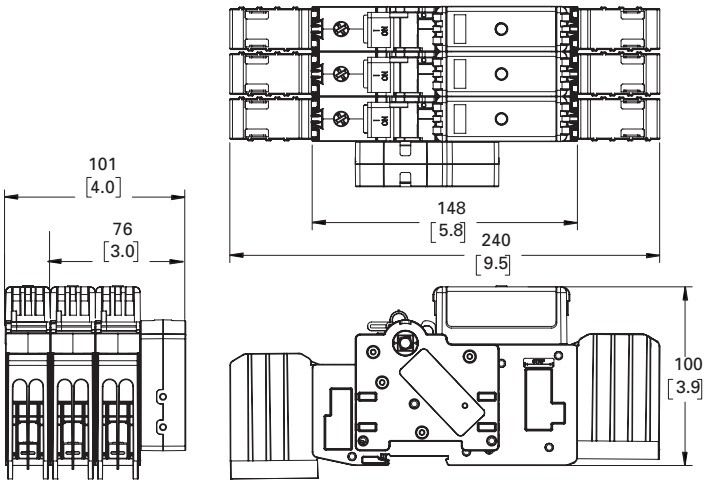
Outline drawings for CCP2 class CF (Dimensions are in mm (in))

30 A and 60 A Left side rotary switches (shown with optional terminal shrouds)



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100 A Left side rotary switches (shown with optional terminal shrouds)



See further details www.eaton.com/bussmannseries, data sheet 10801

CCP2 class CF Compatible Eaton's Bussmann series fuse links

UL Class CF branch circuit time-delay CUBEFuse





CCP Class CF	Compatible CUBEFuse			
Article number	Article number	Current (Amps)	Voltage	Pack qty
Indicating CUBEFuse				
CCP 30 A , CCP 60 A and CCP 100 A	TCF6	6	600 V a.c./ 100 V d.c.	12
	TCF10	10		12
	TCF15	15		12
	TCF17-1/2	17.5		12
	TCF20	20		12
	TCF25	25		12
	TCF30	30		12
CCP 60 A and CCP 100 A	TCF35	35		12
	TCF40	40		12
	TCF45	45		12
	TCF50	50		12
	TCF60	60		12
CCP 100 A	TCF70	70		6
	TCF80	80		6
	TCF90	90		6
	TCF100	100		6
Non-indicating CUBEFuse				
CCP 30 A , CCP 60 A and CCP 100 A	TCF1RN	1	600 V a.c./ 100 V d.c.	12
	TCF3RN	3		12
	TCF6RN	6		12
	TCF10RN	10		12
	TCF15RN	15		12
	TCF17-1/2RN	17.5		12
	TCF20RN	20		12
	TCF25RN	25		12
	TCF30RN	30		12
CCP 60 A and CCP 100 A	TCF35RN	35		12
	TCF40RN	40		12
	TCF45RN	45		12
	TCF50RN	50		12
	TCF60RN	60		12
CCP 100 A	TCF70RN	70		6
	TCF80RN	80		6
	TCF90RN	90		6
	TCF100RN	100		6

See further details www.eaton.com/bussmannseries, data sheet 9000

CCP2 class CF Compatible Eaton's Bussmann series fuse links

Fast acting CUBEFuse for UPS and Critical applications



CCP Class CF	Compatible CUBEFuse			
Article number	Article number	Current (Amps)	Voltage	Pack qty
CCP 30 A , CCP 60 A and CCP 100 A	FCF1RN	1	600 V a.c./ 100 V d.c.	12
	FCF3RN	3		12
	FCF6RN	6		12
	FCF10RN	10		12
	FCF15RN	15		12
	FCF20RN	20		12
	FCF25RN	25		12
	FCF30RN	30		12
CCP 60 A and CCP 100 A	FCF35RN	35		12
	FCF40RN	40		12
	FCF45RN	45		12
	FCF50RN	50		12
	FCF60RN	60		12
CCP 100 A	FCF70RN	70		6
	FCF80RN	80		6
	FCF90RN	90		6
	FCF100RN	100		6

See further details www.eaton.com/bussmannseries, data sheet 2147

All-around service for your machine control systems

Powering Business: For Eaton, this promise means more than just providing reliable products and technologies. It means using our support expertise and services to provide you with an engineering solution that is perfectly tailored to your own specific needs. Or, put more simply, turnkey solutions designed to drive your success.

Engineering for your machine control systems

From the initial idea to bringing your application to life – Eaton will accompany you through every step involved in developing your machine, providing unparalleled support all throughout. The Lean Solution expert's knowhow, combined with the innovation of Eaton products, ensures that you will be able to take advantage of our engineering edge to establish a solid competitive advantage on the market.

Eaton will not only help you select products, but will also provide advice concerning your machine's electrical and hydraulic design and be there for you every step of the way while you implement your applications and programs and commission your system. By combining these services with Eaton components, you can rest assured knowing that your needs will be fully met.

Enabling businesses to successfully export their products to North America

Our long business partnership with SAE Schaltanlagenbau Erfurt, which has the required certifications for building control panels for export to North America, enables us to provide our customers with solutions that are ideal for use in that region. In addition to our products and to the production of control panels built in accordance with UL 508A and NFPA 79, Eaton's and SAE's range of services includes workshops designed to provide the special knowhow required to successfully export electrical equipment to North America.





CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links



Right front rotary operated CCP2 switch with PLC fuse monitor.

Description

The revolutionary next generation Bussmann™ series Compact Circuit Protector (cat. no. CCP2) fused disconnect switch is 3/5 the footprint of a traditional fusible switch and provides up to a high 200 kA Short-Circuit Current Rating (SCCR) to help improve panel and assembly SCCR.

Standards/Approvals

- UL Class CC fuse versions
  - UL 98 Listed, Guide WHTY, File E302370
  - cULus to Canadian Standard 22.2 No 4-04, UL Guide WHTY7, File 302370
- UL Supplemental and IEC 10 x 38 mm fuse versions
  - UL 508 Listed, Guide NRNT, File E320230
  - cULus Certified 2.2 No 14-05
  - IEC 60947-3 AC-23 A
- DC Voltage UL Class CC version (CCP2-1-DCC)
  - UL 508 Listed
  - cULus Certified 2.2 No 1405
- DC IEC 10 x 38 version (CCP2-1-DCM)
  - IEC 60947-3, DC -23 A
- RoHS compliant
- CE

Technical data

- Voltage:
  - 600 V a.c. (UL Class CC)
  - 240 V a.c. (UL Supplemental)
  - 400 V a.c. (IEC 10 x 38 mm)
  - 80 V d.c. (DC Class CC, DC UL Supplemental.IEC)
- Current:
  - 30 A (UL)
  - 32 A (IEC)
- SCCR:
  - 200 kA (UL Class CC)
  - 10 kA (UL Supplemental)
  - 120 kA (IEC 10 x 38 mm max)
  - 20 kA (DC Class CC/UL)
  - 10 kA (DC UL Supplemental/IEC)
- 1-pole, 2-pole and 3-pole

Features

- Extremely compatct (118 mm wide per pole) design
- High SCCR up to 200 kA (UL class CC) and 120 kA (IEC)
- Disconnect rated per load isolation
- Full voltage rated up to 600 V a.c. or 80 V d.c.
- Suitable for globall installations, the switches comply with UL, cULus and IEC standards accepting UL Class CC, Supplemental or IEC aM and gG/gL 10 x 38 mm cylindrical fuse links

CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

CCP2 range overview

	Class CC - 30 A	UL Supplemental and IEC 10 x 38 mm - 30 A and 32 A
Switch only	✓	✓
Switch with right front rotary operation	✓	✓
Switch with left front rotary operation	✓	✓
Switch with right side rotary operation	✓	✓
Switch with left side rotary operation	✓	✓
Single-pole DC switches	✓	✓

CCP2 switch only



CCP2 switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
Class CC								
CCP2-1-30CC	30 A	1P	347 V a.c.	1/2	-	-	-	12
CCP2-2-30CC	30 A	2P	600 V a.c.	-	2	-	-	6
CCP2-3-30CC	30 A	3P	600 V a.c.	3/4	3	5	7.5	4
UL Supplemental and IEC 10 x 38 mm								
CCP2-1-30M	30 A (UL)/32 IEC*	1P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	12
CCP2-2-30M	30 A (UL)/32 IEC*	2P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	6
CCP2-3-30M	30 A (UL)/32 IEC*	3P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	4

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CCP2 switch with right front rotary operation



CCP2 right front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
Class CC								
CCP2R-2-30CC	30 A	2P	600 V a.c.	-	2	-	-	1
CCP2R-3-30CC	30 A	3P	600 V a.c.	3/4	3	5	7.5	1
UL Supplemental and IEC 10 x 38 mm								
CCP2R-2-30M	30 A (UL)/32 IEC*	1P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1
CCP2R-3-30M	30 A (UL)/32 IEC*	2P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1

CCP2 switch with left front rotary operation



CCP2 left front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
Class CC								
CCP2RL-2-30CC	30 A	2P	600 V a.c.	-	2	-	-	1
CCP2RL-3-30CC	30 A	3P	600 V a.c.	3/4	3	5	7.5	1
UL Supplemental and IEC 10 x 38 mm								
CCP2RL-2-30M	30 A (UL)/32 IEC*	1P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1
CCP2RL-3-30M	30 A (UL)/32 IEC*	2P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1

* 32 A Class aM, 25 A class gG
** SCCR may be lower, refer to installed fuse data sheet for interrupting rating at applied voltage

See further details www.eaton.com/bussmannseries, data sheet 10789

CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

CCP2 switch with right side rotary operation



CCP2 right front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
Class CC								
CCP2S-2-30CC	30 A	2P	600 V a.c.	-	2	-	-	1
CCP2S-3-30CC	30 A	3P	600 V a.c.	3/4	3	5	7.5	1
UL Supplemental and IEC 10 x 38 mm								
CCP2S-2-30M	30 A (UL)/32 IEC*	1P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1
CCP2S-3-30M	30 A (UL)/32 IEC*	2P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1

CCP2 switch with left side rotary operation



CCP2 left front rotary switch

Article number	Current rating	Number of poles	Voltage rating	Max Hp rating (V a.c.)				Pack qty
				120	240	480	600	
Class CC								
CCP2SL-2-30CC	30 A	2P	600 V a.c.	-	2	-	-	1
CCP2SL-3-30CC	30 A	3P	600 V a.c.	3/4	3	5	7.5	1
UL Supplemental and IEC 10 x 38 mm								
CCP2SL-2-30M	30 A (UL)/32 IEC*	1P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1
CCP2SL-3-30M	30 A (UL)/32 IEC*	2P	UL 240 V a.c./IEC 400 V a.c.**	-	-	-	-	1

* 32 A Class aM, 25 A class gG
** SCCR may be lower, refer to installed fuse data sheet for interrupting rating at applied voltage

CCP2 single-pole DC switches

Article number	Current rating	Number of poles	Voltage rating	Pack qty
Class CC				
CCP2-1-DCC	30 A	2P	80 V d.c.**	12
UL Supplemental and IEC 10 x 38 mm				
CCP2-1-DCM	30 A (UL)	1P	80 V d.c.**	12
	32 A* (IEC 10 x 38)	1P	80 V d.c.**	12

* 32 A Class aM, 25 A class gG
** SCCR may be lower, refer to installed fuse data sheet for interrupting rating at applied voltage

See further details www.eaton.com/bussmannseries, data sheet 10789

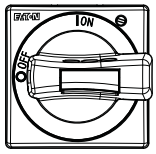
Handles and shafts CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

(Handles and shaft are to be ordered separately)

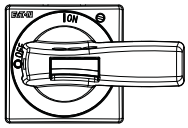
Handles mounting types overview

CCP2	Shaft square mm □	Selector handles clockwise		Selector handles counterclockwise		Pistol handles clockwise		Pistol handles counterclockwise	
		Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow	Black/ Grey	Red/ Yellow
CCP2R-(pole)-30CC	8 x 8	✓	✓			✓	✓		
CCP2R-(pole)-30M	8 x 8	✓	✓			✓	✓		
CCP2RL-(pole)-30CC	8 x 8	✓	✓			✓	✓		
CCP2RL-(pole)-30M	8 x 8	✓	✓			✓	✓		
CCP2S-(pole)-30CC	8 x 8	✓	✓			✓	✓		
CCP2S-(pole)-30M	8 x 8	✓	✓			✓	✓		
CCP2SL-(pole)-30CC	8 x 8			✓	✓			✓	✓
CCP2SL-(pole)-30M	8 x 8			✓	✓			✓	✓

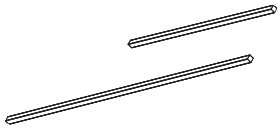
Selector and pistol handles clockwise



Selector handle
CCP2-H4X-B1



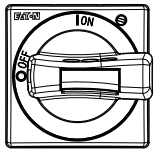
Pistol handle
CCP2-H4X-B2



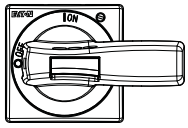
Shafts
CCP-SH1

CCP2 class CF	Description	Selector handles: Handle colours Black/Grey	Selector handles: Handle colours Red/ Yellow	Pistol handles: Handle colours Black/Grey	Pistol handles: Handle colours Red/ Yellow	Metal shafts: Shaft mm□	Metal shafts: Shaft length 290 mm	Metal shafts: Shaft length 490 mm	Pack qty
CCP2R-(pole)-30CC	Right front rotary switch clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2R-(pole)-30M									1
CCP2RL-(pole)-30CC									1
CCP2RL-(pole)-30M	Left front rotary switch clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2S-(pole)-30CC									1
CCP2S-(pole)-30M									1
CCP2S-(pole)-30CF	Right side rotary switch, clockwise handle	CCP2-H4X-B1	CCP2-H4X-R1	CCP2-H4X-B2	CCP2-H4X-R2	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2S-(pole)-60CF									1
CCP2S-(pole)-100CF									1

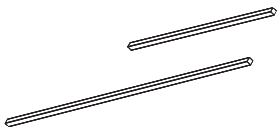
Selector and pistol counterclockwise handles



Selector handle
CCP2-H4X-B1L



Pistol handle
CCP2-H4X-B2L



Shafts
CCP-SH1

CCP2 Class CF	Description	Selector handles: Handle colours Black/Grey	Selector handles: Handle colours Red/ Yellow	Pistol handles: Handle colours Black/Grey	Pistol handles: Handle colours Red/ Yellow	Metal shafts: Shaft mm□	Metal shafts: Shaft length 290 mm	Metal shafts: Shaft length 490 mm	Pack qty
CCP2SL-(pole)-30CC	Left side rotary switch, counterclockwise handle	CCP2-H4X-B1L	CCP2-H4X-R1L	CCP2-H4X-B2L	CCP2-H4X-R2L	8 x 8	CCP2-SH1-290	CCP2-SH1-490	1
CCP2SL-(pole)-30M									1

See further details www.eaton.com/bussmannseries, data sheet 10789

Accessories for CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

Multi-wire lug kits



CCP2-MW1-3

Article number	Description	Suitable for CCP2	Pack qty
CCP2-MW1-3	3-port multi-wire, 75°C Cu.Al, 6-14 includes terminal shield	30 A	3

Terminal shrouds



CCP2-TS1-3

Article number	Suitable for CCP2	Pack qty
CCP2-TS1-3	30 A	3

12 Auxiliary contacts



CCP2-AUX

Article number	Description	Suitable for CCP2	CCP Type	Pack qty
CCP2-AUX	NO + NC, 5A /240 V a.c.	CCP2-(poles)-30CC CCP2-(poles)-30M	Switch only	3
	NO + NC, 5A /240 V a.c.	CCP2RL-(poles)-30CC CCP2RL-(poles)-30M	Left front rotary switch	3
	NO + NC, 5A /240 V a.c., mounts on right side	CCP2SL-(poles)-30CC CCP2SL-(poles)-30M	Left side rotary switch	3

PLC fuse monitor



CCP2-PLC-IND

Article number	Description	Suitable for CCP2	CCP Type	Pack qty
CCP2-PLC-IND	Signal output 24 V d.c./10 mA	CCP2-(poles)-30CC CCP2-(poles)-30M	Switch only	3
	Signal output 24 V d.c./10 mA	CCP2R-(poles)-30CC CCP2R-(poles)-30M	Right front rotary switch	3
	Signal output 24 V d.c./10 mA	CCP2S-(poles)-30CC CCP2S-(poles)-30M	Right side rotary switch	3

See further details www.eaton.com/bussmannseries, data sheet 10789

Technical data for CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

CCP 30 A	UL Class CC	UL Supplemental	IEC	DC
Rated voltage	600 V a.c.	240 V a.c.	400 V a.c.	80 V d.c.
Rated current	30 A	30 A	32 A	30 A UL / 32 A IEC
SCCR	200 k	10 kA	120 kA	20 kA DC Class CC/UL 10 kA DC UL Supplemental/IEC
Poles	1-, 2- and 3-pole	1-, 2- and 3-pole	1-, 2- and 3-pole	1-pole
Conductors/terminals	75oC Cu/Ai, see conductors table below for size, type and torque information Box lug, single/dual indicator Fork terminal suitable for line, load or accessory connection Multi-wire lug kit			
Local open fuse indication minimum voltage Open fuse indication requires an open fuse to be in the CCP2 and the switch in the ON position	90 V a.c.	90 V a.c.	90 V a.c.	12 V d.c..
Storage and operating temperature	-20°C to 75°C For fuse performance under or above 25oC, consult fuse performance derating charts in the Bussmann division publication no 3002, titled Selecting Protection Devices (SPD)			
Lockout/tagout provisions	Switch only - 4 mm lock or Brady pin-out device part number 90850 Switch with rotary operating mechanism - 1/4" lock			
Mounting	35 mm DIN-Rail			
Data sheet	10789			
Agency information	UL 98 Listed, Guide WHTY FIle E302370 cULus to Canadian standard 22.2 No 4-04 UL Guide WHTY7 File E302370	UL 508 Listed,Guide NRNT, File E320230 cULus Certified 22.2 No 14-05 IEC 60947-3, AC-23 A	UL 508 Listed,Guide NRNT, File E320230 cULus Certified 22.2 No 14-05 IEC 60947-3, AC-23 A	DC Voltage UL Class CC (CC2-1-DCC): UL 508 Listed, cULus 22.2, No 1405 DC IEC 10 x 38 version (CCP2-1-DCM): IEC 60947-3, DC-23 A

Box lug terminal conductor data

Type	AWG range	Class	Quantity	Torque N•m (lb-in)
Cu	4-18	Stranded, Class B to K	Single	2.26 (20)
	6-8	Stranded, Class B/C	Dual	3.39 (30)
	6-8	Stranded, Class K	Dual	2.26 (20)
	10-18	Stranded, Class B to K		
	10-18	Solid	Single/dual	
	4-18	Stranded, UL ferrule, Class B/C	Single	3.39 (30)
	6-18		Twin†	
	4-18	Stranded, UL ferrule, Class K	Single	2.82 (25)
	6-18		Twin†	
Al	4-8	Stranded	Single	2.26 (20)
	6		Dual	2.82 (25)
	8			2.26 (20)

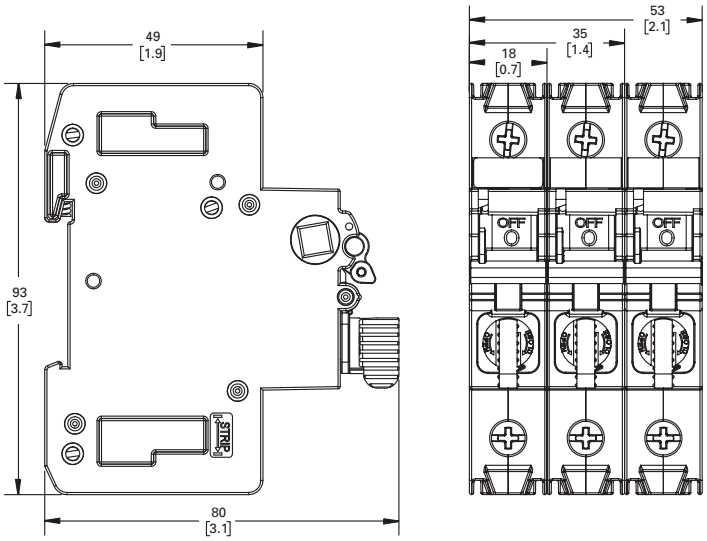
† Two stranded conductors placed in one UL Listed twin ferrule.

See further details www.eaton.com/bussmannseries, data sheet 10789

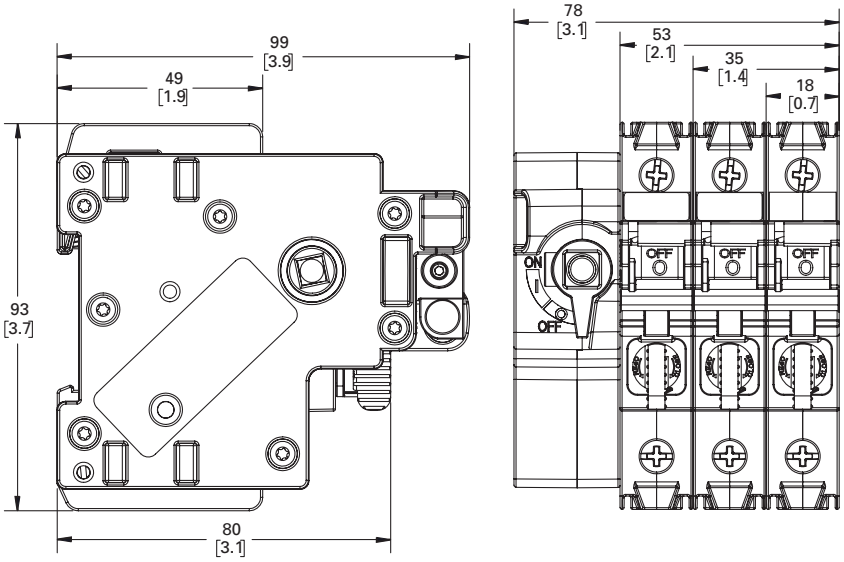
Outline drawings for CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

(Dimensions are in mm (in))

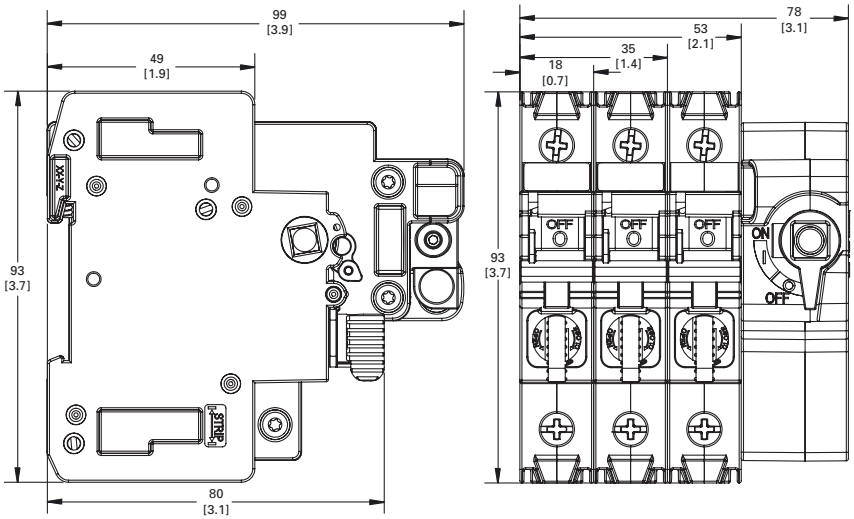
Switch only



12 Left front rotary switches



Right front rotary switches

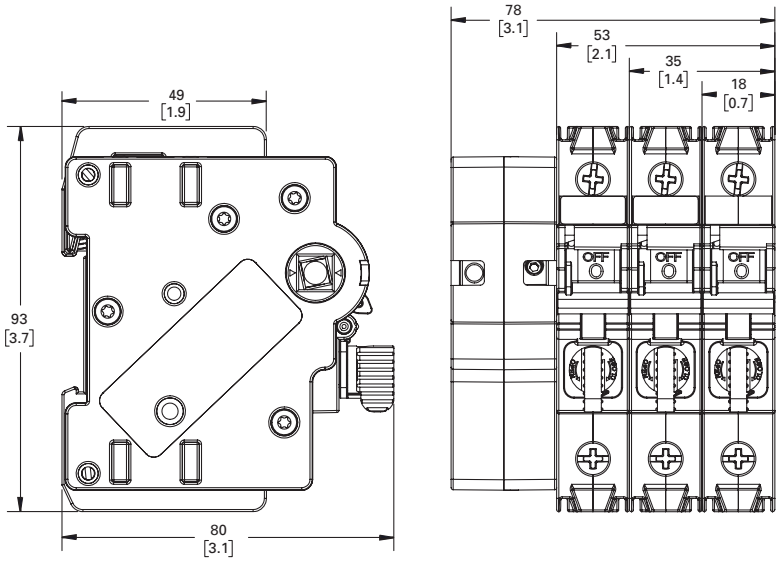


See further details www.eaton.com/bussmannseries, data sheet 10789

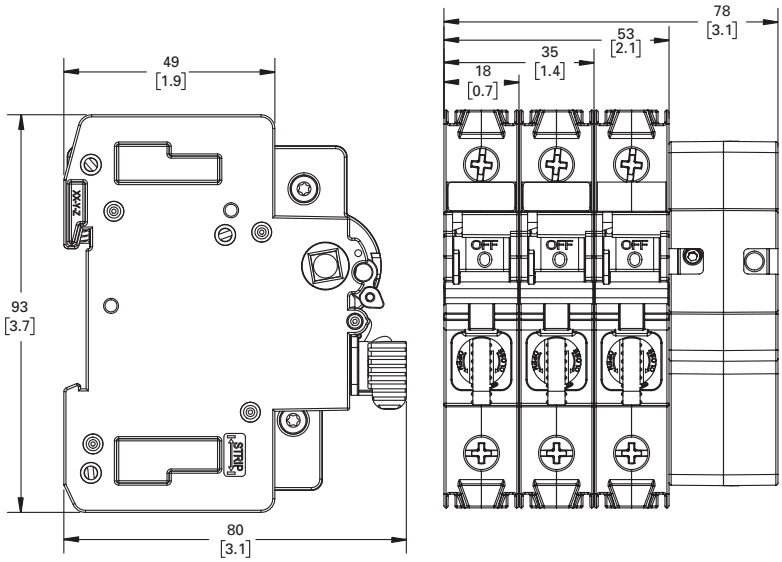
Outline drawings for CCP2 for use with Class CC, Supplemental and IEC 10 x 38 mm fuse links

(Dimensions are in mm (in))

Left side rotary switches



Right side rotary switches



12

See further details www.eaton.com/bussmannseries, data sheet 10789

CCP2 Class CC Compatible Eaton's Bussmann series fuse links

Low-Peak™ LP-CC Class CC 600 V a.c./300 V d.c. 1/2-30 A time-delay fuse links



CCP Class CC	Compatible LP-CC fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	LP-CC-1/2	0.5	600 V a.c./300 V d.c.	10
	LP-CC-6/10	0.6		10
	LP-CC-8/10	0.8		10
	LP-CC-1	1		10
	LP-CC-1-1/8	1.1.25		10
	LP-CC-1-1/4	1.25		10
	LP-CC-1-4/10	1.4		10
	LP-CC-1-1/2	1.5		10
	LP-CC-1-6-10	1.6		10
	LP-CC-1-8/10	1.8		10
	LP-CC-2	2		10
	LP-CC-2/1/4	2.25		10
	LP-CC-2-1/2	2.5		10
CCP2-(poles)-30CC	LP-CC-2-8/10	2.8		10
CCP2R-(poles)-30CC	LP-CC-3	3	600 V a.c./150 V d.c.	10
CCP2RL-(poles)-30CC	LP-CC-3-2/10	3.2		10
	LP-CC-3-1/2	3.5		
CCP2S-(poles)-30CC	LP-CC-4	4		10
CCP2L-(poles)-30CC	LP-CC-4-1/2	4.5		10
	LP-CC-5	5		10
CCP2-1-DCC	LP-CC-5-6/10	5.6		10
	LP-CC-6	6		10
	LP-CC-6-1/4	6.25		10
	LP-CC-7	7		10
	LP-CC-7-1/2	7.5		10
	LP-CC-8	8		10
	LP-CC-9	9		10
	LP-CC-10	10		10
	LP-CC-12	12		10
	LP-CC-15	15		10
	LP-CC-20	20	600 V a.c./300 V d.c.	10
	LP-CC-25	25		10
	LP-CC-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 1023

CCP2 Class CC Compatible Eaton's Bussmann series fuse links

LIMITRON™ FNQ-R Class CC 600 V a.c., 1/4-30 A, time-delay fuse links



CCP Class CC	Compatible FNQ-R fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	FNQ-R-1/4	0.25	600 V a.c.	10
	FNQ-R-3/10	0.3		10
	FNQ-R-4/10	0.4		10
	FNQ-R-1/2	0.5		10
	FNQ-R-6-10	0.6		10
	FNQ-R-3/4	0.75		10
	FNQ-R-8/10	0.8		10
	FNQ-R-1	1		10
	FNQ-R-1-1/8	1.125		10
	FNQ-R-1-1/4	1.25		10
	FNQ-R-1-3/10	1.3		10
	FNQ-R-1-4/10	1.4		10
	FNQ-R-1-1/2	1.5		10
	FNQ-R-1-6/10	1.6		10
	FNQ-R-1-8/10	1.8		10
	FNQ-R-2	2		10
CCP2-(poles)-30CC	FNQ-R-2-1/4	2.25		10
CCP2R-(poles)-30CC	FNQ-R-2-1/2	2.5		10
CCP2RL-(poles)-30CC	FNQ-R-2-8/10	2.8		10
CCP2S-(poles)-30CC	FNQ-R-3	3		10
CCP2L-(poles)-30CC	FNQ-R-3-2/10	3.2		10
CCP2-1-DCC	FNQ-R-3-1/2	3.5		10
	FNQ-R-4	4		10
	FNQ-R-4-1/2	4.5		10
	FNQ-R-5	5		10
	FNQ-R-5-6/10	5.6		10
	FNQ-R-6	6		10
	FNQ-R-6-1/4	6.25		10
	FNQ-R-7	7		10
	FNQ-R-7-1/2	7.5		10
	FNQ-R-8	8		10
	FNQ-R-9	9		10
	FNQ-R-10	10		10
	FNQ-R-12	12		10
	FNQ-R-15	15	600 V a.c./300 V d.c.	10
	FNQ-R-17-1/2	17.5	600 V a.c.	10
	FNQ-R-20	20	600 V a.c./300 V d.c	10
	FNQ-R-25	25	600 V a.c.	10
	FNQ-R-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 1014

CCP2 Class CC Compatible Eaton's Bussmann series fuse links

LIMITRON™ KTK-R Class CC 600 V a.c., 1/10-30 A, fast-acting fuse links



CCP Class CC	Compatible KTK-R fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
CCP2-(poles)-30CC CCP2R-(poles)-30CC CCP2RL-(poles)-30CC CCP2S-(poles)-30CC CCP2L-(poles)-30CC CCP2-1-DCC	KTK-R-1/10	0.1	600 V a.c.	10
	KTK-R-1/8	0.125		10
	KTK-R-2/10	0.2		10
	KTK-R-1/4	0.25		10
	KTK-R-3/10	0.3		10
	KTK-R-4/10	0.4		10
	KTK-R-1/2	0.5		10
	KTK-R-6/10	0.6		10
	KTK-R-3/4	0.75		10
	KTK-R-1	1		10
	KTK-R-1-1/2	1.5		10
	KTK-R-2	2		10
	KTK-R-2-1/2	2.5		10
	KTK-R-3	3		10
	KTK-R-3-1/2	3.5		10
	KTK-R-4	4		10
	KTK-R-5	5		10
	KTK-R-6	6		10
	KTK-R-7	7		10
	KTK-R-8	8		10
	KTK-R-9	9		10
	KTK-R-10	10		10
	KTK-R-12	12		10
	KTK-R-15	15		10
	KTK-R-20	20		10
	KTK-R-25	25		10
	KTK-R-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 1015

CCP2 UL Supplemental Compatible Eaton's Bussmann series fuse links

FNM 13/32" x 1-1/2" 250 V a.c. time-delay supplemental fuse links



CCP UL Supplemental	Compatible FNM fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	FNM-1-10	0.1	250 V a.c..	10
	FNM-1-8	0.125		10
	FNM-15/100	0.15		10
	FNM-2/10	0.2		10
	FNM-1/4	0.25		10
	FNM-3/10	0.3		10
	FNM-4/10	0.4		10
	FNM-1/2	0.5		10
	FNM-6/10	0.6		10
	FNM-3-4	0.75		10
	FNM-8/10	0.8		10
	FNM-1	1		10
	FNM-1-1/8	1.125		10
	FNM-1-1/4	1.25		10
	FNM-1-4/10	1.4		10
	FNM-1-1/2	1.5		10
CCP2-(poles)-30M	FNM-1-6/10	1.6		10
CCP2R-(poles)-30M	FNM-1-8/10	1.8		10
CCP2RL-(poles)-30M	FNM-1	1		10
CCP2S-(poles)-30M	FNM-2-1/4	2.25		10
CCP2L-(poles)-30M	FNM-2-1/2	2.5		10
CCP2-1-DCM	FNM-2-8/10	2.8		10
	FNM-3	3		10
	FNM-3-2/10	3.2		10
	FNM-3-1/2	3.5		10
	FNM-4	4		10
	FNM-4-1/2	4.5		10
	FNM-5	5		10
	FNM-5-6/10	5.6		10
	FNM-6	6		10
	FNM-6-1/4	6.25		10
	FNM-7	7		10
	FNM-8	8		10
	FNM-9	9		10
	FNM-10	10		10
	FNM-12	12		10
	FNM-15	15		10
	FNM-20	20		10
	FNM-25	25		10
	FNM-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 2028

CCP2 UL Supplemental Compatible Eaton's Bussmann series fuse links

FNQ 13/32" x 1-1/2" 500 V a.c. time-delay supplemental fuse links



CCP UL Supplemental	Compatible FNQ fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	FNQ-1-10	0.1	500 V a.c..	10
	FNQ-1-8	0.125		10
	FNQ-15/100	0.15		10
	FNQ-3-16	0.1875		10
	FNQ-2-10	0.2		10
	FNQ-1-4	0.25		10
	FNQ-3/10	0.3		10
	FNQ-4/10	0.4		10
	FNQ-1/2	0.5		10
	FNQ-6/10	0.6		10
	FNQ-8/10	0.8		10
	FNQ-1	1		10
	FNQ-1-1/8	1.125		10
	FNQ-1-1/4	1.25		10
	FNQ-1-1/2	1.5		10
CCP2-(poles)-30M	FNQ-2	2		10
CCP2R-(poles)-30M	FNQ-2-1/4	2.25		10
CCP2RL-(poles)-30M	FNQ-2-1/2	2.5		10
	FNQ-3	3		10
CCP2S-(poles)-30M	FNQ-3-2/10	3.2		10
CCP2L-(poles)-30M	FNQ-3-1/2	3.5		10
	FNQ-4	4		10
CCP2-1-DCM	FNQ-4-1/2	4.5		10
	FNQ-5	5		10
	FNQ-5-6/10	5.6		10
	FNQ-6	6		10
	FNQ-6-1/4	6.25		10
	FNQ-7	7		10
	FNQ-8	8		10
	FNQ-9	9		10
	FNQ-10	10		10
	FNQ-12	12		10
	FNQ-14	14		10
	FNQ-15	15		10
	FNQ-20	20		10
	FNQ-25	25		10
	FNQ-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 1012

CCP2 UL Supplemental Compatible Eaton's Bussmann series fuse links

KTK 13/32" x 1-1/2" 600 V a.c. fast-acting supplemental fuse links



CCP UL Supplemental	Compatible KTK fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	KTK-1/10	0.1	600 V a.c..	10
	KTK-1/8	0.125		10
	KKT-2-10	0.2		10
	KTK-1/4	0.25		10
	KTK-3-10	0.3		10
	KTK-4/10	0.4		10
	KKT-1/2	0.5		10
	KTK-6/10	0.6		10
	KTK-3/4	0.75		10
	KTK-1	1		10
	KTK-1-1/4	1.25		10
CCP2-(poles)-30M	KTK-1-1/2	1.5		10
CCP2R-(poles)-30M	KTK-2	2		10
CCP2RL-(poles)-30M	KTK-2-1/2	2.5		10
	KTK-3	3		10
CCP2S-(poles)-30M	KTK-3-1/2	3.5		10
CCP2L-(poles)-30M	KTK-4	4		10
	KTK-5	5		10
CCP2-1-DCM	KTK-6	6		10
	KTK-7	7		10
	KTK-7-1/2	7.5		10
	KTK-8	8		10
	KTK-9	9		10
	KTK-10	10		10
	KTK-12	12		10
	KTK-15	15		10
	KTK-20	20		10
	KTK-25	25		10
	KTK-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 1011

CCP2 UL Supplemental Compatible Eaton's Bussmann series fuse links

KLM 13/32" x 1-1/2" 600 V a.c./V d.c. fast-acting supplemental fuse links



CCP UL Supplemental	Compatible KLM fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	KLM-1/10	0.1	600 V a.c./V d.c.	10
	KLM-1-8	0.125		10
	KLM-2/10	0.2		10
	KLM-1/4	0.25		10
	KLM-3/10	0.3		10
	KLM-1/2	0.5		10
	KLM-3/4	0.75		10
	KLM-1	1		10
	KLM-1-1/4	1.25		10
CCP2-(poles)-30M	KLM-1-1/2	1.5		10
CCP2R-(poles)-30M	KLM-2	2		10
CCP2RL-(poles)-30M	KLM-2-1/2	2.5		10
CCP2S-(poles)-30M	KLM-3	3		10
CCP2L-(poles)-30M	KLM-4	4		10
CCP2-1-DCM	KLM-5	5		10
	KLM-6	6		10
	KLM-7	7		10
	KLM-8	8		10
	KLM-9	9		10
	KLM-10	10		10
	KLM-12	12		10
	KLM-15	15		10
	KLM-20	20		10
	KLM-25	25		10
	KLM-30	30		10

See further details www.eaton.com/bussmannseries, data sheet 2020

CCP2 IEC 10 x 38 mm Compatible Eaton's Bussmann series fuse links

C10G 0.5 to 25 A, 500 V a.c., class gG/gL IEC cylindrical fuse links



CCP IEC 10 x 38 mm	Compatible C10G fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	C10G0-5	0.5	250 V a.c..	10
	C10G1	1		10
CCP2-(poles)-30M	C10G2	2		10
CCP2R-(poles)-30M	C10G4	4		10
CCP2RL-(poles)-30M	C10G6	6		10
	C10G8	8		10
CCP2S-(poles)-30M	C10G10	10		10
CCP2L-(poles)-30M	C10G12	12		10
CCP2-1-DCM	C10G16	16		10
	C10G20	20		10
	C10G25	25		10

See further details www.eaton.com/bussmannseries, data sheet 720115

C10M 0.5 to 25 A, 500 V a.c., class aM IEC cylindrical fuse links



CCP IEC 10 x 38 mm	Compatible C10M fuse links			
Article number	Article number	Current (Amps)	Voltage	Pack qty
	C10M0-5	0.5	5000 V a.c..	10
	C10M1	1		10
CCP2-(poles)-30M	C10M2	2		10
CCP2R-(poles)-30M	C10M4	4		10
CCP2RL-(poles)-30M	C10M6	6		10
	C10M8	8		10
CCP2S-(poles)-30M	C10M10	10		10
CCP2L-(poles)-30M	C10M12	12		10
CCP2-1-DCM	C10M16	16		10
	C10M20	20	400 V a.c.	10
	C10M25	25		10

See further details www.eaton.com/bussmannseries, data sheet 720115

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172790	DMM-160/3N/I5/P-G	DMM - 160 A 3-pole + solid neutral enclosed with grey padlockable handle	22
172791	DMM-160/3N/I5/P-R	DMM - 160 A 3-pole + solid neutral enclosed with red/yellow padlockable handle	22
172792	DMM-160/3/I5/P-B	DMM - 160 A 3-pole enclosed with blue padlockable handle	22
172793	DMM-160/3/I5/P-G	DMM - 160 A 3-pole enclosed with grey padlockable handle	22
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172798	DMM-160/3N/I5/C-B	DMM - 160 A 3-pole + solid neutral enclosed with blue cylinder lock handle	23
172799	DMM-160/3N/I5/C-G	DMM - 160 A 3-pole + solid neutral enclosed with grey cylinder lock handle	23
172800	DMM-160/3N/I5/C-R	DMM - 160 A 3-pole + solid neutral enclosed with red/yellow cylinder lock handle	23
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172805	DMM-160/4/I5/C-G	DMM - 160 A 4-pole enclosed with grey cylinder lock handle	23
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172853	DMM-125/4/I5/P-G	DMM - 125 A 4-pole enclosed with grey padlockable handle	22
172854	DMM-125/4/I5/P-R	DMM - 125 A 4-pole enclosed with red/yellow padlockable handle	22
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172857	DMM-125/3N/I5/C-R	DMM - 125 A 3-pole + solid neutral enclosed with red/yellow cylinder lock handle	23
172858	DMM-125/3/I5/C-B	DMM - 125 A 3-pole enclosed with blue cylinder lock handle	23
172859	DMM-125/3/I5/C-G	DMM - 125 A 3-pole enclosed with grey cylinder lock handle	23
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		DMV - 200 mm operating shaft for D/C type K5 handle	11
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		Multipole mechanisms - 200 mm operating shaft for D/P type K5 handle	46
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Eaton Industries GmbH
Hein-Moeller-Str. 7-11
D-53115 Bonn/Germany

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Printed in the United Kingdom
Publication No. CA008011EN
October 2019

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