

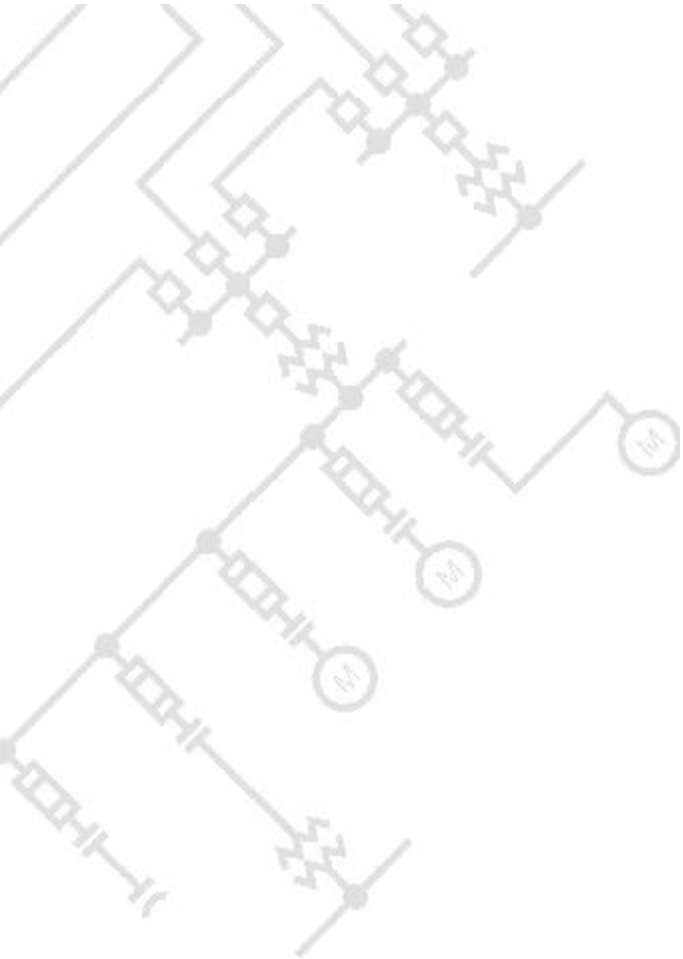


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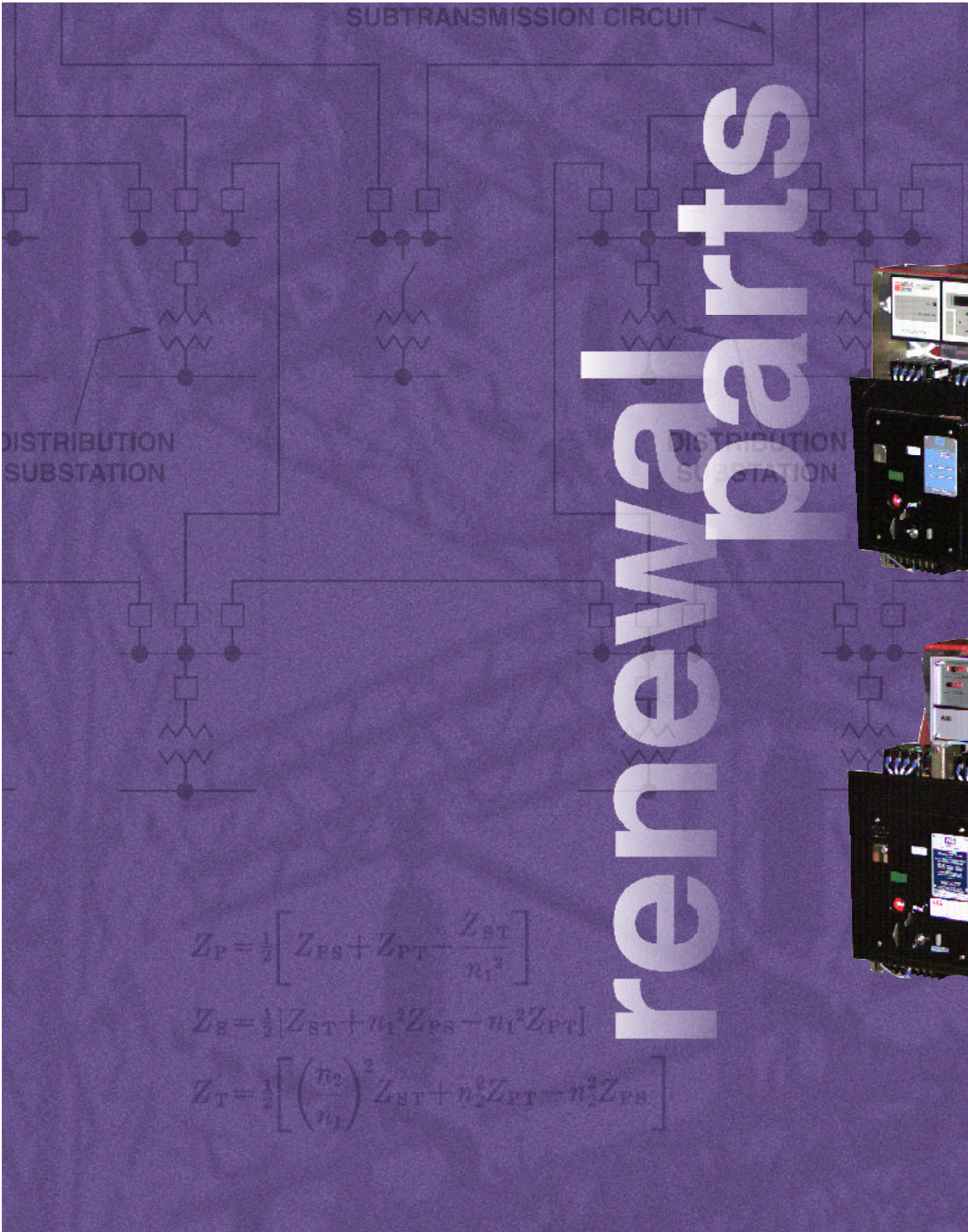
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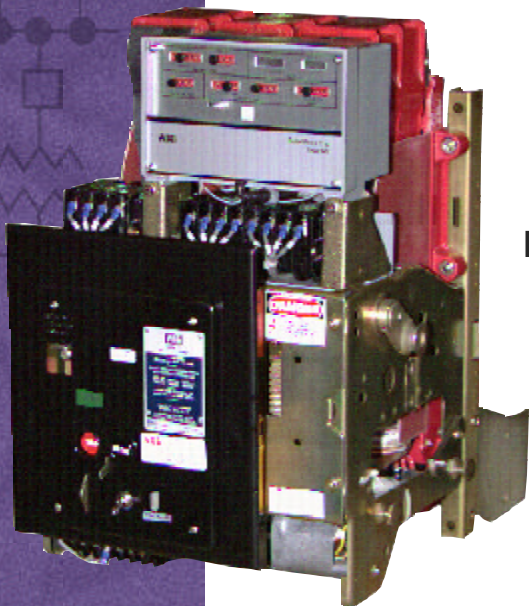
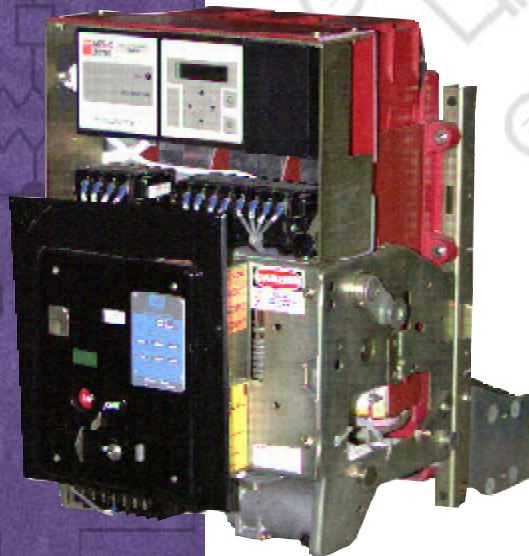
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Low Voltage Circuit Breakers



Renewal Parts Catalog

Bulletin No. RP6.1.2.8D



Low Voltage Power Circuit Breakers Parts Catalog

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June 2001

Type K-225, 600, 800, 1600, 2000, 600S, 800S, 1600S, 2000S, 600M, 800M, 1600M, 2000M
 Type K-Don-600, 800, 1600, 600S, 800S, 1600S, 600M, 800M, 1600M Fused Circuit Breakers

General Notes

1. Recommended quantities are as follows:
 Domestic: One (1) complete set for each ten (10) circuit breakers or fraction thereof installed for each rating.
 International: One (1) complete set for each five (5) circuit breakers or fraction thereof installed for each rating.
NOTE: Figure Reference parts marked with a delta (D), are minimums that should be ordered for normal duty applications. For heavy-duty applications, order all applicable Figure Reference parts.
2. The parts listed cover an indefinite period. With normal duty and maintenance, replacement will be infrequent.
3. Standard hardware (screws, nuts, lockwashers, etc.) is not included with the parts.
4. Where continuity of service is mandatory, a spare circuit breaker is recommended.

Ordering Instructions

When ordering, state type of circuit breaker and serial number from breaker nameplate in addition to part description and ordering number. State the quantity, description, and ordering number of each assembly or part required, as applicable.

EXAMPLE: To order moving contact assemblies for a typical K-600 circuit breaker, provide the following:

Serial No. 39402-22-2-4A (From nameplate)

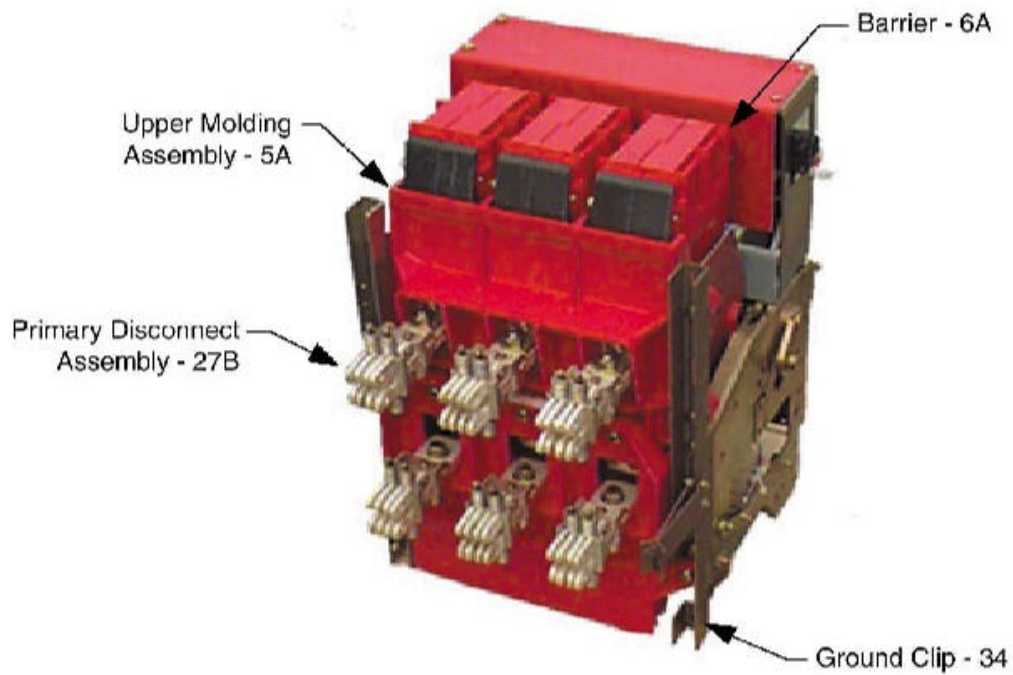
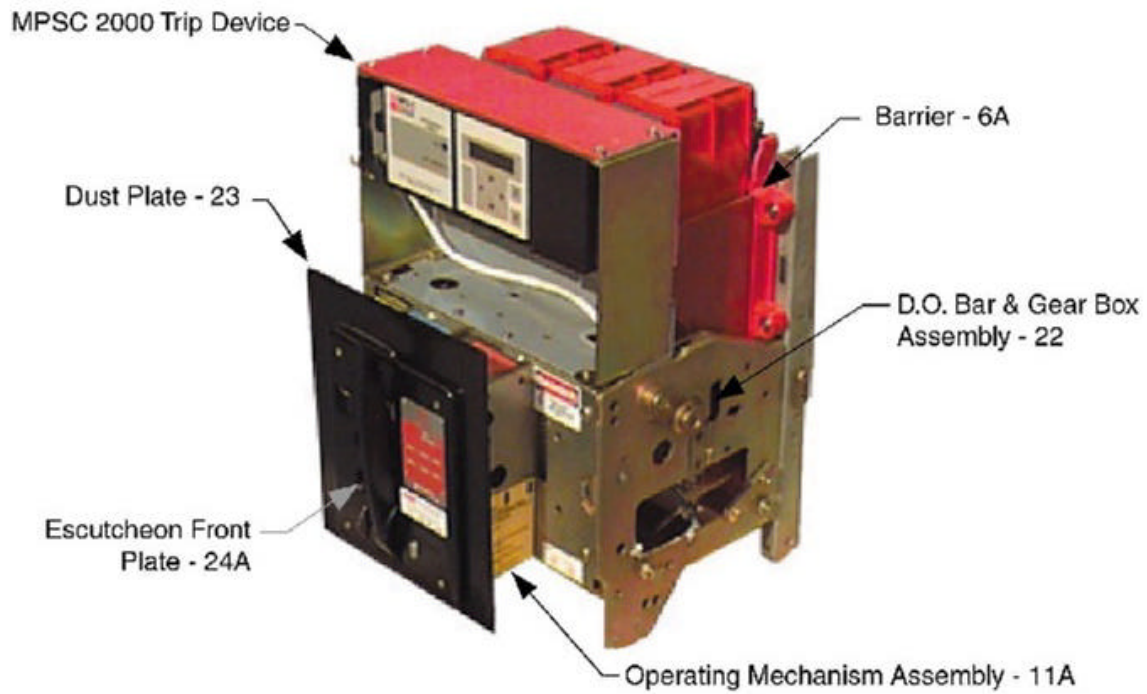
S.O. 33-39402

Quantity-2 (Fig. Ref. 4B, page 8) Moving Contact Assemblies 706783T02

The recommended spares in this bulletin apply only to circuit breakers having the features listed. For example, the circuit breaker is stationary mounted, disregard the primary and secondary disconnect assemblies (Fig. Ref. 27A, B, C, D, E, and 28). If the circuit breaker has a special feature not listed, provide complete description of the feature, such as: "Shunt Trip-120 Volts AC," in addition to other information requested in the above example.

When ordering current-limiting fuses, always specify the continuous current rating in addition to the order number.

NOTE: Fig. Ref. parts marked with a bullet (I). On circuit breakers equipped with solid state overcurrent trip devices, as designated by the "S" at the end of the circuit breaker "Type", it is necessary to replace both the solid state logic assembly and the lower molding assembly when changing the circuit breaker to a new AMPERE TAP range.



PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number
		K225	K600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)	
Lower Base Molding w/OC Trip device Standard Type OD-3 Electro-Mechanical Trip Devices) (Specified Ampere Rating)												
20 Amp	7A	1										1215OVCT302
40 Amp	7A	1										1215OVCT304
70 Amp	7A	1										1215OVCT307
125 Amp	7A	1										1215OVCT312
225 Amp	7A	1										1215OVCT322
Lower Molding, OD-3 Overcurrent, K600, K-Don 600												
40 Amp	7A		1					1				1225OVCT304
70 Amp	7A		1					1				1225OVCT307
125 Amp	7A		1					1				1225OVCT312
225 Amp	7A		1					1				1225OVCT322
400 Amp	7A		1					1				1225OVCT340
600 Amp	7A		1					1				1225OVCT360
Lower Molding, OD-3 Overcurrent, K1600, K-Don 1600												
225 Amp	7B			3					3			1235OVCT322
400 Amp	7B			3					3			1235OVCT340
800 Amp	7B			3					3			1235OVCT380
1600 Amp	7B			3					3			1235OVCT316
Lower Molding, OD-3 Overcurrent, K2000												
400 Amp	7B				3							1245OVCT340
800 Amp	7B				3							1245OVCT380
1600 Amp	7B				3							1245OVCT316
2000 Amp	7B				3							1245OVCT320
Lower Molding, OD-3 Overcurrent, K800, K-Don 800												
125 Amp	7A		1					1				1285OVCT312
225 Amp	7A		1					1				1285OVCT322
400 Amp	7A		1					1				1285OVCT340
800 Amp	7A		1					1				1285OVCT380
Lower Base Molding w/Ph. & Pwr. Sensors												
50 to 225 Amp	8A					1				1		709733T13
250 to 600 Amp	8A					1				1		709733T14
300 to 800 Amp	8A					1				1		709733T12
250 to 600 Amp	8B						3					709734T03
600 to 1600 Amp	8B						3					709734T01
250 to 600 Amp	8B							3			3	709733T06
600 to 1600 Amp	8B							3			3	709733T05
800 to 2000 Amp	8B							3			3	709733T05

PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number	
		K225	K600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)		K-Don 1600S(M)
1 Power Shield (Standard Type SS-3) ²													
50 to 225 Amp	9					1					1		609901T003
250 to 600 Amp	9					1	1	1			1	1	609902T003
300 to 800 Amp	9					1					1		609907T003
600 to 1600 Amp	9						1	1				1	609903T003
800 to 2000 Amp	9							1					609904T003
SS Trip Device Test Set (Type 504)	10					1	1	1			1	1	608089T01
Operating Mechanism Assembly (M.O. Stationary)	11A	1	1			1			1		1		709774T01
Operating Mechanism Assembly (M.O. Stationary)	11A			1	1		1	1		1		1	709774T05
Operating Mechanism Assembly (M.O. Drawout)	11A	1	1			1			1		1		709774T02
Operating Mechanism Assembly (M.O. Drawout)	11A			1	1		1	1		1		1	709774T06
Operating Mechanism Assembly (E.O. Stationary) ³	11B	1	1			1			1		1		709774T03
Operating Mechanism Assembly (E.O. Stationary) ³	11B			1	1		1	1		1		1	709774T07
Operating Mechanism Assembly (E.O. Drawout) ³	11B	1	1			1			1		1		716774T04
Operating Mechanism Assembly (E.O. Drawout) ³	11B			1	1		1	1		1		1	709774T08
D Motor Assembly (When Used) ⁴													
48 Vdc	12	1	1	1	1	1	1	1	1	1	1	1	709799T03
110/120Vac or 125 Vdc	12	1	1	1	1	1	1	1	1	1	1	1	709799T01
208/240 Vac or 250 Vdc	12	1	1	1	1	1	1	1	1	1	1	1	709799T02
D Control Device Assembly (When Used)													
110/120 Vac	13	1	1	1	1	1	1	1	1	1	1	1	708392T09
208/240 Vac	13	1	1	1	1	1	1	1	1	1	1	1	708392T16
48 Vdc	13	1	1	1	1	1	1	1	1	1	1	1	708392T06
125 Vdc	13	1	1	1	1	1	1	1	1	1	1	1	708392T07
250 Vdc	13	1	1	1	1	1	1	1	1	1	1	1	708392T08

PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number	
		K225	K 600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)		K-Don 1600S(M)
D1st Shunt Trip Assembly (When Used)													
110/120 Vac	14A	1	1	1	1		1	1	1	1		1	708393T12
208/240 Vac	14A	1	1	1	1		1	1	1	1		1	708393T10
360/480 Vac	14A	1	1	1	1		1	1	1	1		1	708393T11
500/600 Vac	14A	1	1	1	1		1	1	1	1		1	708393T08
48 Vdc	14A	1	1	1	1		1	1	1	1		1	708393T06
125 Vdc	14A	1	1	1	1		1	1	1	1		1	708393T07
250 VDC	14A	1	1	1	1		1	1	1	1		1	708393T08
D2nd Shunt Trip Assembly (When Used)													
110/120 Vac	14B	1	1	1	1		1	1	1	1		1	709723T12
208/240 Vac	14B	1	1	1	1		1	1	1	1		1	709723T10
360/480 Vac	14B	1	1	1	1		1	1	1	1		1	709723T11
500/600 Vac	14B	1	1	1	1		1	1	1	1		1	709723T08
48 Vdc	14B	1	1	1	1		1	1	1	1		1	709723T06
125 Vdc	14B	1	1	1	1		1	1	1	1		1	709723T07
250 Vdc	14B	1	1	1	1		1	1	1	1		1	709723T08
D Motor Assembly (When Used) (Ryobi) ⁴													
48 Vdc	43	1	1			1			1		1		716601T03
110/120 Vac or 125 Vdc	43	1	1			1			1		1		716601T01
208/240 Vac or 250 Vdc	43	1	1			1			1		1		716601T02
48 Vdc	43			1	1		1	1		1		1	716601T06
110/120 Vac Or 125 Vdc	43			1	1		1	1		1		1	716601T04
208/240 Vac or 250 Vdc	43			1	1		1	1		1		1	716601T05
D Magnetic Latch Assembly	15					1	1	1			1	1	160862T03
D Undervoltage Trip Device-Inst (WhenUsed)													
110/120 Vac	16A	1	1	1	1	1	1	1	1	1	1	1	708472T01
208/240 Vac	16A	1	1	1	1	1	1	1	1	1	1	1	708472T02
360/480 Vac	16A	1	1	1	1	1	1	1	1	1	1	1	708472T04
500/600 Vac	16A	1	1	1	1	1	1	1	1	1	1	1	708472T05
48 Vdc	16A	1	1	1	1	1	1	1	1	1	1	1	708472T06
125 Vdc	16A	1	1	1	1	1	1	1	1	1	1	1	708472T07
250 Vdc	16A	1	1	1	1	1	1	1	1	1	1	1	708472T08
D Undervoltage Trip Device-Time Delay (WhenUsed)													
110/120 Vac	16B	1	1	1	1	1	1	1	1	1	1	1	708472T09
208/240 Vac	16B	1	1	1	1	1	1	1	1	1	1	1	708472T10
360/480 Vac	16B	1	1	1	1	1	1	1	1	1	1	1	708472T12
500/600 Vac	16B	1	1	1	1	1	1	1	1	1	1	1	708472T13
48 Vdc	16B	1	1	1	1	1	1	1	1	1	1	1	708472T14
125 Vdc	16B	1	1	1	1	1	1	1	1	1	1	1	708472T15
250 Vdc	16B	1	1	1	1	1	1	1	1	1	1	1	708472T16
Open Fuse Trip Device	17								1	1	1	1	709724T01
Operation Counter (When Used)	18	1	1	1	1	1	1	1	1	1	1	1	180522C00

PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number	
		K225	K600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)		K-Don 1600S(M)
Motor Disconnect Switch (When Used)	19	1	1	1	1	1	1	1	1	1	1	1	715668A00
Electrical Close Switch (When Used)	20	1	1	1	1	1	1	1	1	1	1	1	716100C00
Opening Spring	21	2	2			2			2		2		650220A06
Opening Spring	21			2	2		2	2		2		2	650220A07
Drawout Mechanism Assembly	22	1	1			1			1		1		703230T15
Drawout Mechanism Assembly	22			1	1		1	1		1		1	703230T16
Dust Plate	23	1	1	1	1	1	1	1	1	1	1	1	702669A00
Escutcheon Front Plate Assembly													
M.O. - Stationary	24A	1	1	1	1	1	1	1	1	1	1	1	708118K01
M.O. - Drawout	24A	1	1	1	1	1	1	1	1	1	1	1	708118K02
E.O. - Stationary	24B	1	1	1	1	1	1	1	1	1	1	1	708119K03
E.O. - Drawout	24B	1	1	1	1	1	1	1	1	1	1	1	708119K04
Basic Frame Assembly		1	1						1				708356T01
Basic Frame Assembly						1			1		1		708356T03
Basic Frame Assembly				1	1		1	1		1		1	708356T05
Basic Breaker Assembly		1											708355T01
Basic Breaker Assembly			1			1			1		1		708355T03
Basic Braeker Assembly				1			1			1		1	708355T05
Basic Breaker Assembly					1			1				1	708355T07
Primary Disconnect Assembly	27A	6											706777T01
Primary Disconnect Assembly	27B		6			6			3		3		706777T03
Primary Disconnect Assembly	27C								3		3		706777T05
Primary Disconnect Assembly	27D			6			6						706777T11
Primary Disconnect Assembly	27E				6			6		6		6	709957T01
Secondary Disconnect Assembly Moving (When Used)	28	2	2	2	2	2	2	2	2	2	2	2	703153K01
Secondary Disconnect Assembly Stationary (When Used)	29	2	2	2	2	2	2	2	2	2	2	2	271985T01
D Current Limiting Fuse (When Used)													
300 Amp (Non-UL)	30A								3	3	3		710316A01
400 Amp (Non-UL)	30A								3	3	3		710316A02
600 Amp (Non-UL)	30A								3	3	3	3	710316A03
800 Amp (UL)	30A								3	3	3	3	710316A04
1000 Amp (UL)	30A								3	3	3	3	710316A05
1200 Amp (UL)	30A								3	3	3	3	710316A06
1600 Amp (UL)	30A									3		3	710316A07
2000 Amp (UL)	30A									3		3	710316A08
2500 Amp (UL)	30A									3		3	712652A00

PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number	
		K225	K600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)		K-Don 1600S(M)
Auxiliary Switch - 4 Contact	31	1	1	1	1	1	1	1	1	1	1	1	700034K01
Auxiliary Switch - 8 Contact	32	1	1	1	1	1	1	1	1	1	1	1	700038K01
Auxiliary Switch w/mounting													
4 Contact - RH	33	1	1			1			1		1		709653T01
8 Contact - RH	33	1	1			1			1		1		709653T02
4 Contact - LH	33	1	1			1			1		1		709653T03
4 Contact - LH & 4 Contact - RH (As shown)	33	1	1			1			1		1		709653T04
4 Contact - LH & 8 Contact - RH	33	1	1			1			1		1		709653T05
4 Contact - RH	33			1	1		1	1		1		1	709653T06
8 Contact - RH	33			1	1		1	1		1		1	709653T07
4 Contact - LH	33			1	1		1	1		1		1	709653T08
4 Contact - LH & 4 Contact - RH	33			1	1		1	1		1		1	709653T09
4 Contact - LH & 8 Contact - RH	33			1	1		1	1		1		1	709653T10
Ground Clip	34	1	1	1	1	1	1	1	1	1	1	1	703230T03
Hardware & Retainer Kit	35	1	1	1	1	1	1	1	1	1	1	1	709654T02
Circuit Breaker Accessories (Order accessories in quantities as required)													
Accessory Kit	36												709770T01
Maintenance Handle	37												716664T01
Lifting Yoke	38												709770T05
Racking Crank	39												711706K03
Arc Chute Assembly	1A	3	3			3			3		3		706775T13
Arc Chute Assembly	1B			3	3		3	3		3		3	706775T12
Arc Chute Retainer	2A	2	2			2			2		2		701496A00
Arc Chute Retainer	2B			2	2		2	2		2		2	701543A00
Upper Base Molding w/Stationary Contact Assembly	3A	1											706784T01
Upper Base Molding w/Stationary Contact Assembly	3A		1			1			1		1		706784T03
Upper Base Molding w/Stationary Contact Assembly	3B			3			3						706784T05
Upper Base Molding w/Stationary Contact Assembly	3B				3			3		3		3	706784T06
Moving Contact Assembly	4A	3											706783T01
Moving Contact Assembly	4B		3			3			3		3		706783T02
Moving Contact Assembly	4C			3			3			3		3	706783T03
Moving Contact Assembly	4C				3			3					706783T07
Upper Base Molding w/Stationary & Moving Contacts	5A	1											706782T01
Upper Base Molding w/Stationary & Moving Contacts	5A		1			1			1		1		706782T03

PARTS CATALOG

Description of Assembly or Part	Fig. Ref.	Quantity per 3 Pole Breaker										Ordering Number	
		K225	K600-K800	K1600	K2000	K600S/K800S(M)	K1600S(M)	K2000S(M)	K-Don 600/800	K-Don 1600	K-Don 600S/800S(M)		K-Don 1600S(M)
Upper Base Molding w/Stationary & Moving Contacts	5B			3			3						706782T05
Upper Base Molding w/Stationary & Moving Contacts	5B				3			3		3		3	706782T06
Inter-phase Barrier	6A	4	4			4			4		4		701531A00
Inter-phase Barrier	6B			3	3					3			707110A00
Inter-phase Barrier	6C						3	3				3	710524A00
Lower Base Molding w/Ph. & Pwr. Sensors (Use w/MPSC-2000 Trip Device)													
200 Amp	40					1					1		709733T03
600 Amp	40					1					1		709733T04
800 Amp	40					1					1		709733T01
200 Amp	41						3						709734T14
800 Amp	41						3						709734T08
1600 Amp	41						3						709734T02
800 Amp	41											3	709734T13
1600 Amp	41							3				3	709734T07
2000 Amp	41							3					709734T04
MPSC-2000 Trip Device ⁵													
200 Amp	42					1					1		716666T01
600 Amp	42					1					1		716666T10
800 Amp	42					1					1		716666T02
200 Amp	42						1						716666T01
800 Amp	42						1						716666T02
1600 Amp	42						1						716666T03
800 Amp	42												716666T02
1600 Amp	42											1	716666T03
2000 Amp	42							1					716666T04
MPSC Trip Device Test Set	44					1	1	1			1	1	716999T01

¹ Basic OD-3 Overcurrent listed, for OD-4, OD-5, OD-6, etc. refer to Component Sales - NADSG.

² Basic (Phase Only) Power Shield. For SS-4, SS-5, SS-7, etc. and for target or alarm option adders, refer to Component Sales - NADSG.

³ Operating mechanisms shown are not to be used as replacements on circuit breakers equipped with Ryobi type motors. Refer to Component Sales - NADSG.

⁴ Replacement of motor assembly may require replacement of complete operating mechanism assembly. Refer to Component Sales - NADSG.

⁵ Basic 3w Ground application MPSC-2000. For 4w Ground, Voltage Interface Module and instantaneous Lock-in options, etc. Refer to Component Sales - NADSG.



1A



1B



2A (UPPER)
2B (LOWER)



3A



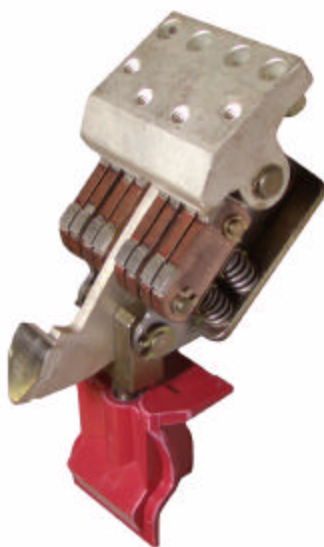
3B



4A



4B



4C



5A



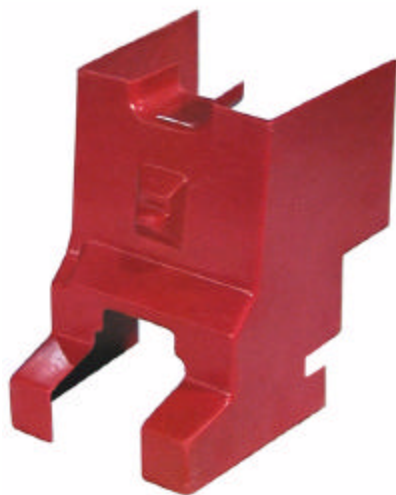
5B



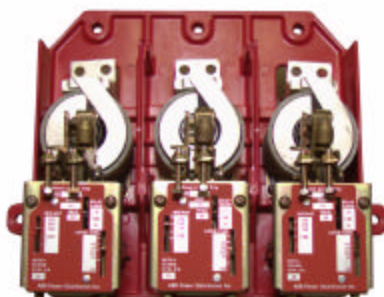
6A



6B



6C



7A



7B



8A



8B



9



10



11A



11B



12



13



14A



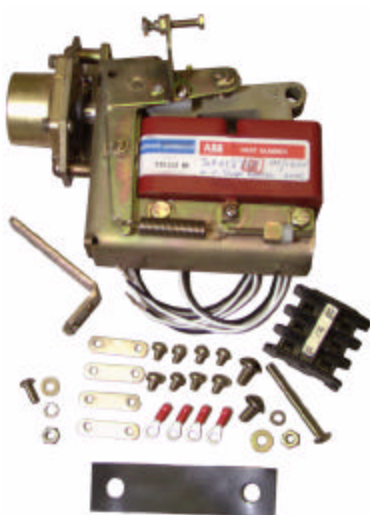
14B



15



16A



16B



17



18



19



20



21



22



23



24A



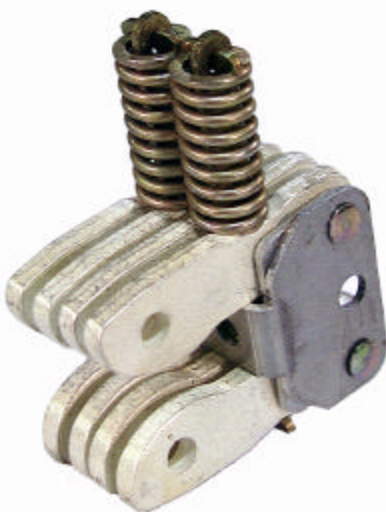
24B



27A



27B



27C



27D



27E



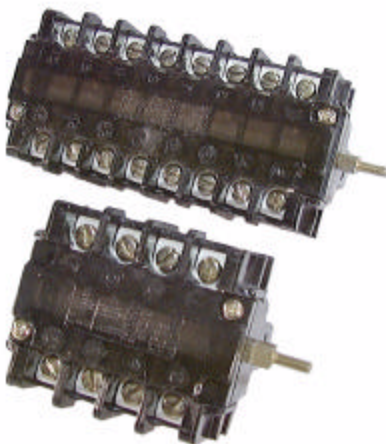
28



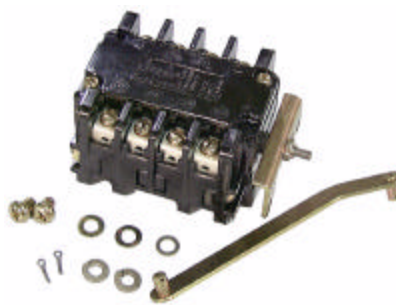
29



30A



31 UPPER
32 LOWER



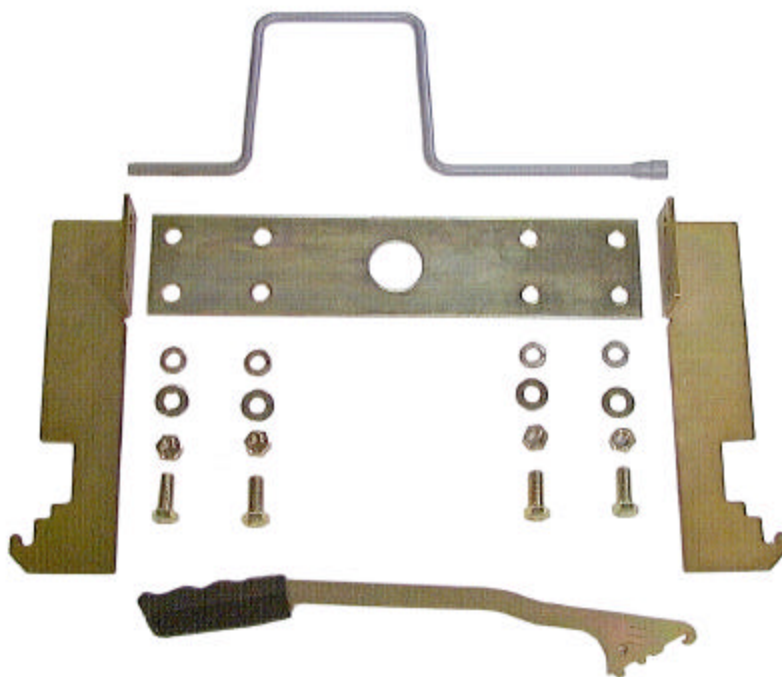
33



34



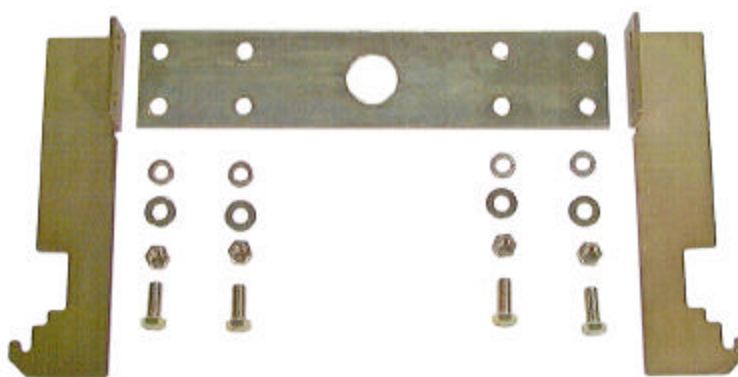
35



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42



43



Worksheet

Take notes and do your calculations here.

ORDER GUIDE

MPSC-2000 Trip Device Retrofit Kit Upgrade

Catalog Number											
Mandatory Entries								Optional Entries			
1		2			3	4		5		6	
M	C	P									

Breaker Type	Trip Rating (Amp)	Entry 2
K-600 K-800	200	K802
	600	K806
	800	K808
K-DON 600 K-DON 800	200	D802
	600	D806
	800	D808
K-1600	200	K102
	600	K106
	800	K108
	1600	K116
KDON-1600	200	D102
	600	D106
	800	D108
	1600	D116
K-2000	1600	K216
	2000	K220
K-3000	3000	K330
	3200	K332
K-4000	4000	K440

Application	VIM	Entry 3
Phase or 3-wire ground	no	1
4-wire ground	no	2
Double-ended substation protection	no	3
Phase or 3-wire ground	yes	4
4-wire ground	yes	5
Double-ended substation protection	yes	6

Existing Trip System	Control Voltage	Entry 4
Any MPS or MPS-C	N/A	10
Any SS		20
O.D. for K-1600 through K-4000 and K-600 / K-800 w/o shunt trip		30
O.D. for K-600 / K-800 with shunt trip	120 Vac	31
	240 Vac	32
	480 Vac	33
	600 Vac	34
	24 Vdc	35
	48 Vdc	36
	125 Vdc	37
	250 Vdc	38

Modifications (optional)	Entries 5 & 6
Instantaneous Lock-in	26
50 Hz Service	28

Ordering Instructions:

Use the tables to specify the appropriate entries for breaker type, trip rating, application, trip system and adders.

This retrofit kit is for use with red-molding K-LINE Breakers only.

Example: MCPK806120:

An MPSC-2000 retrofit kit MCPK806120 fits a K-800 breaker with 600 A sensors (entry 2: **K806**), 3-wire ground without VIM (entry 3: **1**), replacing an SS device (entry 4: **20**).

Notes:

- MPSC-2000 Trip Unit includes: Long time, short time, instantaneous and ground trip elements.
- 4-wire ground and D.E.S.P. applications require remote neutral sensor and the use of (2 or 4) secondary disconnect contacts. These need to be ordered separately.
- A VIM (Voltage Interface Module) is wired to secondary disconnect contact #16. Please order secondary disconnects separately if needed.
- Do not enter dashes or other separators into the catalog number.

For Terms and Conditions of Sales, see ABB Form 50-000.