



February 1991
 Supersedes Technical Data 29-520, pages 3-4,
 dated February 1988
 Mailed to: E, D, C/29-500A

Type SM Safety Handle Mechanism

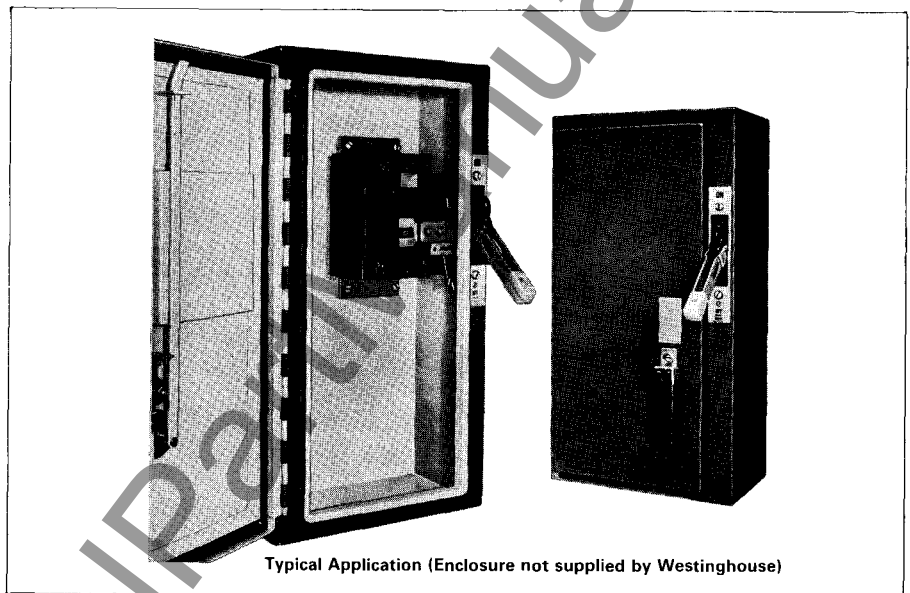
Handle Mechanisms

Type SM Safety Handle Mechanism

The Westinghouse Type SM safety handle mechanism is designed to prevent tampering by unauthorized individuals and provides the optimum in personnel safety. When properly applied, these mechanisms conform to NEMA 12 and J. I. C. requirements, and are thus well-suited for use by the automotive and machine tool industries.

Completely preassembled in a rugged cast housing, the type SM safety handle mechanism includes a predrilled mounting plate for simplified customer installation. Standard handles are 5 1/4 inches long and can be padlocked in "OFF" position with as many as three padlocks. A shorter handle 3 1/2 inches long can be supplied on SM100, SM101, or SM150 mechanisms when specified.

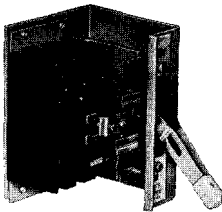
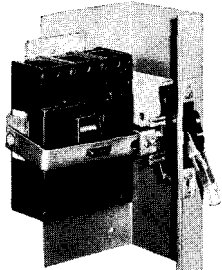
All type SM safety handle mechanisms can be used on any size enclosure. Order handle mechanism from table below, plus desired door hardware for complete application. Dress nameplate required to meet automotive specifications is available from accessories section.



Typical Application (Enclosure not supplied by Westinghouse)

Mechanisms for NEMA 4 Applications

Mechanisms with chrome plated housing, stainless steel parts and special gasketing can be supplied. 30% price adder. Order by description.

Handle Mechanism	For Use With:	Catalog Number [Ⓛ]	
		Right Hand Mounting Enclosure Cover Hinged On Left	Left Hand Mounting Enclosure Cover Hinged On Right
	Series C-F Frame, EB, EHB, FB, HFB Breakers, and Type DS 30, 60, 100 Amp. Non-fusible Switches Type DS 30, 60, 100 Amp. Fusible Switches FB TRI-PAC [Ⓛ] , FB Breaker with Current Limiter or Type FCL 30, 60 and 100 Amp De-ion Switches	SM150R SM100SFR SM101PR SM100R	SM150L SM100SFL SM101PL SM100L
	DA, JA, KA, HKA, LB, LBB, HLB Breakers Series C-J Frame JB, KB, HKB Series C-K Frame LAB, LA, HLA, LC, HLC Breakers (400 and 600 Amp.) MA, HMA, MC, HMC Breakers Tri-Pac LA Breaker LD, HLD, LDC Breakers [Ⓛ] Tri-Pac NB NB, HNB, NC, HNC Breakers Type DS 200 Amp Non-Fusible Switch Type DS 200 Amp Fusible Switch Type LCL	SM225R SM250JR SM250R SM400KR SM400R SM800R SM400PR SM600R SM800PR SM1200R SM200SR SM200SFR SM400LCLR	SM225L SM250JL SM250L SM400KL SM400L SM800L SM400PL SM600L SM800PL SM1200L SM200SL SM200SFL SM400LCLL

For door hardware and accessories, see page 4.

[Ⓛ] Must be ordered with door hardware, if not, door operated interlock defater kit is required.
[Ⓛ] Changed or added since previous issue

Note: For illustration purposes, handle mechanism is shown with disconnect device mounted to cutaway enclosure. (Enclosure not included with mechanism)







**Type SM
Safety Handle Mechanism**

List Prices: See Price List 29-020
Discount CB-14

Door Hardware

Three choices of door hardware and an auxiliary handle are offered to provide the best latching scheme for individual needs. The door hardware is designed with a provision for padlocking, and a coin-proof slot that requires the use of a tool to open the door, for maximum security.

Select desired hardware below. Additional latches can be ordered from accessories section if desired.

Hardware Item	Description
	With sliding latches for smaller panels up to approx. 30" high. Catalog Numbers Right Hand: DH1R ^① Left Hand: DH1L ^②
	With 2 roller latches for intermediate panels up to approx. 40" high. Catalog Numbers Right Hand: DH2R ^① Left Hand: DH2L ^②
	With 3 roller latches for larger panels approx. 40" and higher. Catalog Numbers Right Hand: DH3R ^① Left Hand: DH3L ^②
	Auxiliary handle for larger panels Catalog Numbers Right Hand: DH4R ^① Left Hand: DH4L ^②

① Enclosure cover hinged on left
② Enclosure cover hinged on right

Accessories

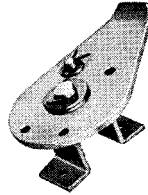
Dress Nameplate: Required to meet automotive specifications. Mounts from inside enclosure and covers operating mechanism mounting bolts, making mechanism non-removable when enclosure door is closed.



For SM100, SM150 Mechanisms
Style Number: 373D260G05

For SM200 and larger mechanisms
Style Number: 373D298G05

Auxiliary Latch Kits: Provide an additional latch for use with applications where two point latching may not be adequate.



Slide Latch

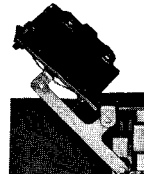


Roller Latch

For Door Hardware Using Sliding Latches
Right or Left Hand Mtg.: Style No. 656D669G01

For Door Hardware Using Roller Latches
Right Hand Mtg.: Style No. 370D801G04
Left Hand Mtg.: Style No. 370D802G04

Electrical Interlock Kit: Provides 1 N. C. and 1 N. O. contacts (SPDT switch) for use with auxiliary circuits. Mounts to end of mechanism housing as shown.



Style Number: 622B747G01

Accessories, Continued

Door Operated Interlock Defeater Kit for Type SM Mechanisms: Required when door hardware is not used, operates as door closes. Additional door securing means such as screw latch, also required (to be supplied by box manufacturer).

Style Number: 623B214G02



July, 1987
Supersedes 29-520 T WE A, pages 1-2
dated October, 1975.
Mailed to: E, D, C/29-500A

VariDepth Handle Mechanism
Slide Plate Handle Mechanism

Handle Mechanisms

FRONT

Vari-Depth Handle Mechanism ① ②

Westinghouse general purpose vari-depth handle mechanisms are suitable for use with NEMA 1 fabricated enclosures. They are designed for use with AB breakers or disconnect switches when used in deep enclosures.

Required for a standard application are an operating handle, shaft and mechanism. Two variable depth shafts are offered to better cover the wide range of depths of various

enclosures ... these are referred to in the table as the standard and the long shaft. The dimensions for panel depth given in the table are from the mounting surface of the breaker or disconnect to the inside of the enclosure cover.

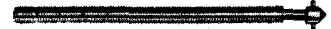
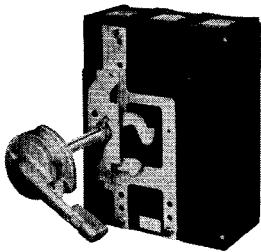
Standard mechanisms do not include a lockoff device. Mechanisms with this feature are, however, offered as an optional item. The internal lockoff provides a means of padlocking the breaker or switch in the

"off" position while the enclosure door is open.

These mechanisms may also be used in conjunction with NEMA 4, 7 and 9 cast enclosures. When used with these enclosures, the special handle kits shown as accessory items must be ordered in place of the standard handle.

The adapter bushing, a component of the special handle kit, may be ordered separately.

Selection Data ③ List Prices: See Price List 29-020 Discount CB-14



For Complete Applications,
Order Mechanism, Handle
And Shaft

Mechanism ① ②		Handle		Shaft			
Standard - (No Internal Lockoff)		Special - (With Internal Lockoff)		Standard		Long	
Style Number	Style Number	Style Number	Style Number	Style Number	Panel Depth	Style Number	Panel Depth

Circuit Breakers ④

Series C* F-Frame, EB
CA
Series C J-Frame
Series C K-Frame

373D958G22
458D493G20
5092A62G03
5092A62G01

373D958G23
458D493G21
5092A62G04
5092A62G02

504C323G03
504C323G03
504C323G03
504C323G03

47A4446G36
47A4446G36
47A4446G36
47A4446G36

5 -10¼
4¾ - 9¾
5½ -11½
5½ -11½

47A4446G37
47A4446G37
47A4446G37
47A4446G37

10½ -14
9¾ -13½
11½ -14¾
11½ -14¾

JB, KB, HKB ④

LA, HLA, LC, HLC
TRI-PAC FB
FCL

373D958G18
458D493G04
373D958G10
373D958G16

373D958G19
458D493G12
373D958G11
373D958G17

504C323G03
504C323G03
504C323G03
504C323G03

47A4446G36
47A4446G36
47A4446G36
47A4446G36

5½ -11½
6½ -11¼
5 -10¼
5 -10¼

47A4446G37
47A4446G37
47A4446G37
47A4446G37

11½ -14¾
11¼ -15
10¼ -14
10¼ -14

MA, HMA, MC, HMC (800 Amp max.)

NB, HNB, NC, HNC
TRI-PAC LA
TRI-PAC NB
LCL

458D493G05
373D958G07
374D075G02
373D958G12
458D493G22

458D493G13
373D958G08
374D075G01
373D958G13
458D493G23

504C323G03
504C323G03
504C323G03
504C323G03
504C323G03

47A4446G36
47A4446G36
47A4446G36
47A4446G36
47A4446G36

6 1/16 -11 3/16
7 1/16 -13 1/4
6 1/8 -11 1/4
7 1/8 -13 1/4
6 1/16 -11 3/16

47A4446G37
47A4446G37
47A4446G37
47A4446G37
47A4446G37

11 1/16 -15 9/16
12 1/16 -16 1/16
11 1/4 -15
12 1/16 -16 1/16
11 1/16 -15 1/16

Disconnect Switches

30, 60, 100 Amp De-ion ⑤ ⑥
Type DS 30, 60, 100 Amp ④
Type DS 200 Amp ④

47A4446G34
4987D14G02
4987D14G01

.....
.....
.....

②
504C323G03
504C323G03

②
47A4446G36
47A4446G36

5¾ -11
5¾ -10¾
6 1/16 -11 3/16

47A4446G37
47A4446G37
47A4446G37

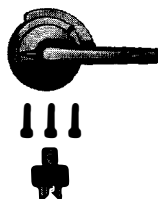
11 -14¾
10¾ -14 5/8
10 7/8 -14 7/8

Accessories

Special Handles: Meet NEMA 4 requirements. These handles are similar to standard handles, except they include an internal neoprene gasket. Due to gasketing effect between handle and housing, handle will not indicate a tripped position when used with circuit breakers.

Standard Finish:
Style Number: 504C323G04 ⑦

Handle Kits: These kits are for use with NEMA 4, 7 and 9 cast enclosures. They include a special operating handle, mounting bolts and an adapter bushing (bushing may be purchased separately). Kits may be used with standard mechanisms and shafts as required.



Adapter Bushing Only:
Style Number 314C794G04

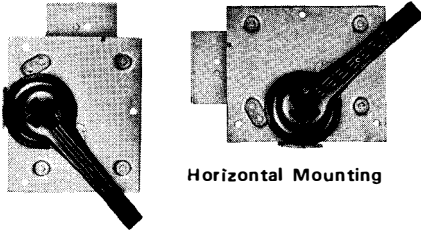
- ① When used with plug-in adapter kits or R.C. studs, special mounting hardware is required. Refer to Westinghouse.
- ② Mechanism style includes handle and a standard shaft. Long shaft may be ordered separately if required.
- ③ Includes hardware.
- ④ Outline and drilling plan reference - drawing 653D270.
- ⑤ Outline and drilling plan reference - drawing 450D089.
- ⑥ For outline and drilling plan, see IL 14903.
- ⑦ Changed or added since previous issue.

For NEMA 4, 9 Enclosure
Style Number: 314C794G10 ⑦

For NEMA 7 Enclosure
Style Number: 314C794G09 ⑦



Slide Plate Handle Mechanism



Horizontal Mounting

Vertical Mounting

These compact Westinghouse slide plate handle mechanisms are especially designed for use with AB De-ion circuit breakers and disconnect switches when they are mounted in a shallow enclosure. They are suitable for use on NEMA 1 and NEMA 1A applications.

Because of the mechanisms' simplified installation – three mounting holes – and pre-assembled construction, these units are commonly used where high volume, standardized enclosures are being fabricated.

The mechanism styles listed on this page are for use on enclosures which have covers hinged on the right side. If these mechanisms are used on enclosures which have covers hinged on the left side, the door interlock will not function.

Outdoor or Hazardous Location Type



This handle mechanism is designed for use with fabricated or cast, NEMA 3, 4 or 5 enclosures. A butterfly cam type mechanism may be used on enclosures with either right or left hand hinged covers or on enclosures with bolted covers. The mechanism has a provision for padlocking. Will accept up to three locks. Assembly of this mechanism is accomplished by welding it to the enclosure door or cover.

Selection Data

List Prices: See Price List 29-020 Discount CB-14

Enclosure Cover Hinged on Right	Vertical Mounting		Horizontal Mounting	Drilling Plan Reference
	Padlocks In "Off" Position Style Number	Padlocks In "On" Or "Off" Position Style Number	Padlocks In "Off" Position Style Number	
Circuit Breakers				
Series C F-Frame, EB	314C386G03	314C386G10	314C386G06	657D074
LA, MA, LC	314C386G01	314C386G08	314C386G04	454D363
NB, NC, MC	314C386G01	314C386G08	314C386G04	657D074
PB, TRI-PAC PB, PC, PCC	505C294G03	.....	.....	372D690
HLA, HMA	314C386G01	314C386G08	314C386G04	454D363
HNB, HNC, HMC, HLC	314C386G01	314C386G08	314C386G04	657D074
TRI-PAC FB	314C386G03	314C386G10	314C386G06	657D074
TRI-PAC LA	314C386G01	314C386G08	314C386G04	657D074
TRI-PAC NB	314C386G01	314C386G08	314C386G04	657D074
Visi-Flex Switches (Model T)				
30 Amp, Special 60 Amp.	314C386G02	314C386G09	314C386G05	454D363
60 Amp, 100 Amp.	314C386G01	314C386G08	314C386G04	454D363
Disconnect Switches				
30, 60, 100 Amp. De-ion	314C386G02	314C386G09	314C386G05	454D363
Type DS 30, 60, 100 Amp.	314C386G03	314C386G10	314C386G06	657D074
Type DS 200 Amp.	314C386G01	314C386G08	314C386G04	657D074
Type DS 400, 600 Amp.	314C386G15	.....	.....	657D074

Door Interlock Kits

For use with slide plate mechanisms used in larger panels where regular interlock is not adequate.

Style Number	Description	Drilling Plan Reference
28A2656G08	3 Point – For mechanisms, style numbers: 314C386G01, 02, 03, 04, 05, 06, 08, 09 and 10	208B624
1532 990	2 Point – For PB mechanisms, style number 505C294G03	372D690

Selection Data

List Prices: See Price List 29-020 Discount CB-14

Description	Complete Handle Mechanisms NEMA 3, 4, 5		Drilling Plan Reference
	Padlocks In "Off" Position Style Number	Padlocks In "On" Or "Off" Position Style Number	
	Circuit Breakers		
Series C F-Frame, EB	48A3656G03	48A3656G04	48A3656
LA, MA, HLA, HMA	452D028G01	.....	452D028
De-ion Switches			
30, 60, 100 Amp	48A3656G03	48A3656G04	48A3656

Ⓢ Handle mechanisms cannot be used on Visi-flex switches with 200 ampere fuse kits.



October, 1975
 Supersedes Price List 29-520, pages 3-4,
 dated July 1, 1974
 Mailed to: E, D, C/1901, 1902/PL

Type SM Safety Handle Mechanism

Handle Mechanisms

Type SM Safety Handle Mechanism

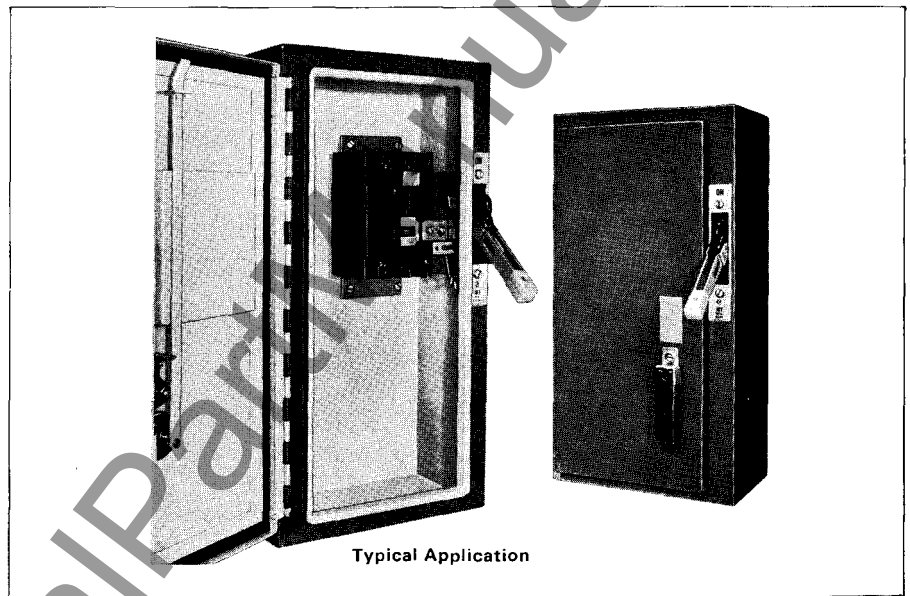
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Completely preassembled in a rugged cast housing, the type SM safety handle mechanism includes a predrilled mounting plate for simplified customer installation. Standard handles are 5 1/4 inches long and can be padlocked in "OFF" position with as many as three padlocks. A shorter handle 3 3/4 inches long can be supplied on SM100, SM101, or SM150 mechanisms when specified.

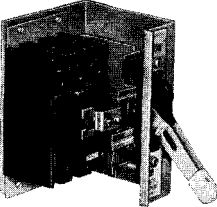
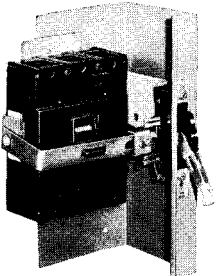
All type SM safety handle mechanisms can be used on any size enclosure. Order handle mechanism from table below, plus desired door hardware for complete application. Dress nameplate required to meet automotive specifications is available from accessories section.

Mechanisms for NEMA 4 Applications

Mechanisms with chrome plated housing, stainless steel parts and special gasketing can be supplied. Order by description.



Selection Data Handle Mechanism Only, Disconnect Device Not Included List Prices: See Price List 29-020 P WE A Discount CB-14

Handle Mechanism	For Use With:	Catalog Number	
		Right Hand Mounting Enclosure Cover Hinged On Left	Left Hand Mounting Enclosure Cover Hinged On Right
	EB, EHB, FB, HFB Breakers, and Type DS 30, 60, 100 Amp. Non-fusible Switches.....	SM150R	SM150L
	Type DS 30, 60, 100 Amp. Fusible Switches.....	SM100SFR	SM100SFL
	FB TRI-PAC®, or FB Breaker with Current Limiter.....	SM101PR	SM101PL
	30, 60 and 100 Amp De-ion Switches..	SM100R	SM100L
	DA, JA, KA, HKA, LB, LBB, HLB Breakers.....	SM225R	SM225L
	JB, KB, HKB.....	SM250R	SM250L
	LAB, LA, HLA, LC, HLC Breakers (400 and 600 Amp.).....	SM400R	SM400L
	MA, HMA, MC, HMC Breakers.....	SM800R	SM800L
	Tri-Pac LA Breaker.....	SM400PR	SM400PL
	Tri-Pac NB.....	SM800PR	SM800PL
	NB, HNB, NC, HNC Breakers.....	SM1200R	SM1200L
	Type DS 200 Amp Non-Fusible Switch	SM200SR	SM200SL
	Type DS 200 Amp Fusible Switch.....	SM200SFR	SM200SFL

For door hardware and accessories, see page 4.

Note: For illustration purposes, handle mechanism is shown with disconnect device mounted to cutaway enclosure.









**Type SM
 Safety Handle Mechanism**

List Prices: See Price List 29-020 P WE A
 Discount CB-14

Door Hardware

Three choices of door hardware and an auxiliary handle are offered to provide the best latching scheme for individual needs. The door hardware is designed with a provision for padlocking, and a coin-proof slot that requires the use of a tool to open the door, for maximum security.

Select desired hardware below. Additional latches can be ordered from accessories section if desired.

Hardware Item	Description
	With sliding latches for smaller panels up to approx. 30" high. Catalog Numbers Right Hand: DH1R Left Hand: DH1L
	With 2 roller latches for intermediate panels up to approx. 40" high. Catalog Numbers Right Hand: DH2R Left Hand: DH2L
	With 3 roller latches for larger panels approx. 40" and higher. Catalog Numbers Right Hand: DH3R Left Hand: DH3L
	Auxiliary handle for larger panels Catalog Numbers Right Hand: DH4R Left Hand: DH4L

② Enclosure cover hinged on left.
 ③ Enclosure cover hinged on right.

Accessories

Dress Nameplate: Required to meet automotive specifications. Mounts from inside enclosure and covers operating mechanism mounting bolts, making mechanism non-removable when enclosure door is closed.



For SM100, SM150 Mechanisms
 Style Number: 373D260G05

For SM200 and larger mechanisms
 Style Number: 373D298G05

Auxiliary Latch Kits: Provide an additional latch for use with applications where two point latching may not be adequate.



Sliding Latch



Rolling Latch

For Door Hardware Using Sliding Latches
 Right or Left Hand Mtg.: Style No.
 656D669G01

For Door Hardware Using Roller Latches
 Right Hand Mtg.: Style No. 370D801G04
 Left Hand Mtg.: Style No. 370D802G04

Electrical Interlock Kit: Provides 1 N. C. and 1 N. O. contacts (SPDT switch) for use with auxiliary circuits. Mounts to end of mechanism housing as shown.



Style Number: 622B747G01

Remote Mounting Kit: Enables the operating mechanism to be mounted remotely on a vertical centerline from the breaker or disconnect switch.

For SM100 Mechanism
 Style Number: 505C366G01

For SM200 and Larger Mechanisms
 Style Number: 505C367G01

Accessories, Continued

Door Operated Interlock Defeater Kit for Type SM Mechanisms: Required when door hardware is not used, operates as door closes. Additional door securing means such as screw latch, also required (to be supplied by box manufacturer).

Style Number: 623B214G02

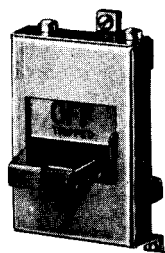


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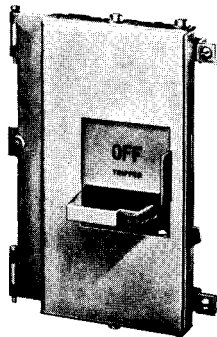
Type MC Handle Mechanism
 Type AMT Handle Mechanism

Handle Mechanisms

Type MC Motor Control Handle Mechanism



100 Ampere Mechanism



225 Ampere Mechanism




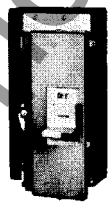
Type MC handle mechanisms are linear drive, fixed depth mechanisms designed for through-door mounting in standardized or shallow depth enclosures such as motor control centers or enclosed circuit breakers.

Mounting directly to the front of the disconnect, these mechanisms provide positive operation and handle indication. Both disconnect and mechanism mount simultaneously with mounting hardware supplied with the mechanism.

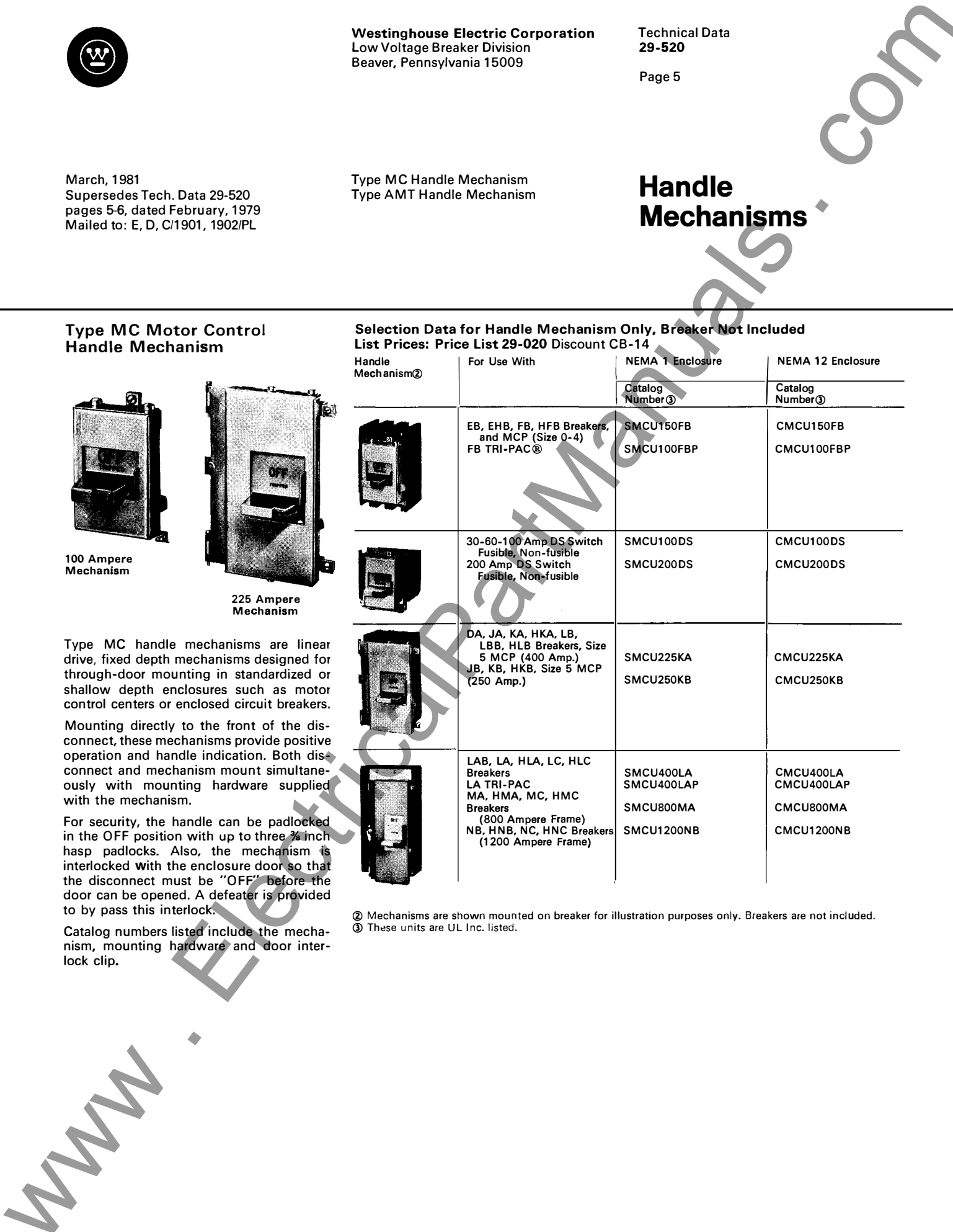
For security, the handle can be padlocked in the OFF position with up to three 3/8 inch hasp padlocks. Also, the mechanism is interlocked with the enclosure door so that the disconnect must be "OFF" before the door can be opened. A defeater is provided to by pass this interlock.

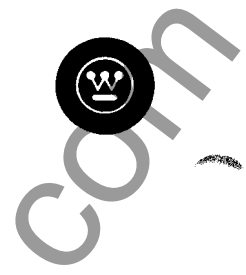
Catalog numbers listed include the mechanism, mounting hardware and door interlock clip.

Selection Data for Handle Mechanism Only, Breaker Not Included List Prices: Price List 29-020 Discount CB-14

Handle Mechanism ^②	For Use With	NEMA 1 Enclosure	NEMA 12 Enclosure
		Catalog Number ^③	Catalog Number ^③
	EB, EHB, FB, HFB Breakers, and MCP (Size 0-4) FB TRI-PAC ^③	SMCU150FB SMCU100FBP	CMCU150FB CMCU100FBP
	30-60-100 Amp DS Switch Fusible, Non-fusible 200 Amp DS Switch Fusible, Non-fusible	SMCU100DS SMCU200DS	CMCU100DS CMCU200DS
	DA, JA, KA, HKA, LB, LBB, HLB Breakers, Size 5 MCP (400 Amp.) JB, KB, HKB, Size 5 MCP (250 Amp.)	SMCU225KA SMCU250KB	CMCU225KA CMCU250KB
	LAB, LA, HLA, LC, HLC Breakers LA TRI-PAC MA, HMA, MC, HMC Breakers (800 Ampere Frame) NB, HNB, NC, HNC Breakers (1200 Ampere Frame)	SMCU400LA SMCU400LAP SMCU800MA SMCU1200NB	CMCU400LA CMCU400LAP CMCU800MA CMCU1200NB

^② Mechanisms are shown mounted on breaker for illustration purposes only. Breakers are not included.
^③ These units are UL Inc. listed.





Type AMT Vari-Depth/Vari-Width Flange Mounted Handle Mechanism

The Type AMT is an extra heavy duty handle mechanism designed for mounting in flange-type enclosures, and has provisions for mounting in various depth enclosures and for varying the width relationship between the disconnect device and the external handle.

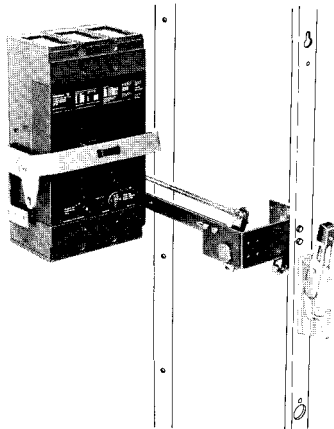
A door interlock is provided to prevent opening the enclosure door with the disconnect

in the ON position or to close the disconnect with the enclosure door open.

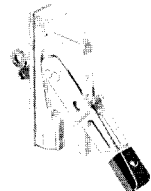
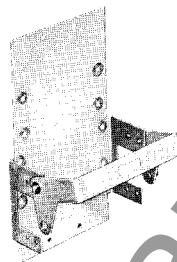
The external handle can be locked in the OFF position with up to three padlocks. The AMT mechanism is supplied for mounting in right hand flange enclosures but can be easily converted for left hand mounting.

AMT mechanisms are available for above the handle mounting or below the handle mounting. Mechanisms for below handle mounting are also available as fixed width units. A door hardware adapter kit (page 8) is required when using type DH door hardware with this mechanism.

Assembled Type AMT for Above Handle Mounting (Breaker not included)



Complete Assembly



Consists Of and Shipped As The Component Parts Listed Below

Breaker or Switch Type	Catalog Number	Backplate and Yoke Assembly Catalog Number	Operating Rod and Brace Assembly ^③ Catalog Number	Flange Mounted Pivot Mechanism Assembly ^③ Catalog Number	External Operating Handle Catalog Number
Above the Handle Mounting with Short Rod and Brace					
EB, EHB, FB, HFB, MCP (0-4)	AMTFBASV	AMTFB	AMTRB1	AMTPM	AMTOP
JB, KB, MCP (250 Amp)	AMTKBASV	AMTKB	AMTRB1	AMTPM	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLBASV	AMTLB	AMTRB1	AMTPM	AMTOP
LA, HLA, LC, HLC	AMTLAASV	AMTLA	AMTRB1	AMTPM	AMTOP
MA, HMA, MC, HMC	AMTMAASV	AMTMA	AMTRB1	AMTPM	AMTOP
NB, HNB, NC, HNC	AMTNBASV	AMTNB	AMTRB1	AMTPMNB ^②	AMTOP
FB, TRI-PAC [®]	AMTFBASV	AMTFB	AMTRB1	AMTPM	AMTOP
LA, TRI-PAC [®]	AMTLAPASV	AMTLAP	AMTRB1	AMTPM	AMTOP
NB, TRI-PAC [®]	AMTNBPASV	AMTNBP	AMTRB1	AMTPMNB ^②	AMTOP
DS-30, 60, 100 Unfused	AMTDSASV	AMTDS100	AMTRB1	AMTPM	AMTOP
DS-30, 60, 100 Fused ^①	AMTDSFASV	AMTDS100F	AMTRB1	AMTPM	AMTOP
DS-30, 60, 100 Fused ^②	AMTDSF1ASV	AMTDS100F1	AMTRB1	AMTPM	AMTOP
DS-200 Unfused	AMTDS2ASV	AMTDS200	AMTRB1	AMTPM	AMTOP
DS-200 Fused	AMTDS2FASV	AMTDS200F	AMTRB1	AMTPM	AMTOP
Above the Handle Mounting with Long Rod and Brace					
EB, EHB, FB, HFB, MCP (0-4)	AMTFBALV	AMTFB	AMTRB2	AMTPM	AMTOP
JB, KB, MCP (250 Amp)	AMTKBALV	AMTKB	AMTRB2	AMTPM	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLBALV	AMTLB	AMTRB2	AMTPM	AMTOP
LA, HLA, LC, HLC	AMTLAALV	AMTLA	AMTRB2	AMTPM	AMTOP
MA, HMA, MC, HMC	AMTMAALV	AMTMA	AMTRB2	AMTPM	AMTOP
NB, HNB, NC, HNC	AMTNBALV	AMTNB	AMTRB2	AMTPMNB ^②	AMTOP
FB, TRI-PAC [®]	AMTFBALV	AMTFB	AMTRB2	AMTPM	AMTOP
LA, TRI-PAC [®]	AMTLAPALV	AMTLAP	AMTRB2	AMTPM	AMTOP
NB, TRI-PAC [®]	AMTNBPALV	AMTNBP	AMTRB2	AMTPMNB ^②	AMTOP
DS-30, 60, 100 Unfused	AMTDSALV	AMTDS100	AMTRB2	AMTPM	AMTOP
DS-30, 60, 100 Fused ^①	AMTDSFALV	AMTDS100F	AMTRB2	AMTPM	AMTOP
DS-30, 60, 100 Fused ^②	AMTDSF1ALV	AMTDS100F1	AMTRB2	AMTPM	AMTOP
DS-200 Unfused	AMTDS2ALV	AMTDS200	AMTRB2	AMTPM	AMTOP
DS-200 Fused	AMTDS2FALV	AMTDS200F	AMTRB2	AMTPM	AMTOP

Refer to Page 8 for accessory items.

① Changed since previous issue.
② For switches using 30, 60, 100 amp., 600 volt NEC Class H, R or J fuses.

③ For switches using 30, 60, 100 amp., 250 volt NEC Class H or R fuses.
④ Width spacer kit not included.



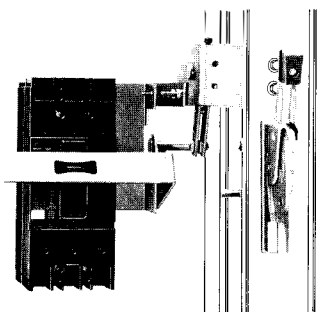
February, 1979
Supersedes Tech. Data 29-520
pages 7-8, dated July, 1977
Mailed to: E, D, C/1901, 1902/PL

Type AMT Handle Mechanism for
Below Handle Mounting

Handle Mechanisms

Type AMT Vari-Depth/Vari-Width Flange Mounted Handle Mechanism, Continued

Assembled Type
AMT for Below
Handle Mounting
(Breaker not
included)



Complete Assembly



Consists Of and Shipped As The Component Parts Listed Below

Breaker or Switch Type	Catalog Number	Backplate and Yoke Assembly Catalog Number	Operating Rod and Brace Assembly ^③ or Rod only Catalog Number	Flange Mounted Pivot Mechanism Assembly ^{③⑤} Catalog Number	External Operating Handle Catalog Number
Below the Handle Mounting with Short Rod and Brace					
EB, EHB, FB, HFB, MCP (0-4)	AMTFBBSV	AMTFB-B	AMTRB1	AMTPM-B	AMTOP
JB, KB, MCP (250 Amp)	AMTKBBSV	AMTKB-B	AMTRB1	AMTPM-B	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLBBSV	AMTLB-B	AMTRB1	AMTPM-B	AMTOP
LA, HLA, LC, HLC	AMTLABSV	AMTLA-B	AMTRB1	AMTPM-B	AMTOP
MA, HMA, MC, HMC	AMTMABSV	AMTMA-B	AMTRB1	AMTPM-B	AMTOP
NB, HNB, NC, HNC	AMTNBBSV	AMTNB-B	AMTRB1	AMTPM-B	AMTOP
FB, TRI-PAC ^①	AMTFBPBSV	AMTFBP-B	AMTRB1	AMTPM-B	AMTOP
LA TRI-PAC ^①	AMTLAPBSV	AMTLAP-B	AMTRB1	AMTPM-B	AMTOP
NB TRI-PAC ^①	AMTNBPBSV	AMTNBP-B	AMTRB1	AMTPM-B	AMTOP
DS-30, 60, 100 Unfused	AMTDSBSV	AMTDS100-B	AMTRB1	AMTPM-B	AMTOP
DS-30, 60, 100 Fused ^①	AMTDSFBSV	AMTDS100F-B	AMTRB1	AMTPM-B	AMTOP
DS-30, 60, 100 Fused ^②	AMTDSF1BSV	AMTDS100F1-B	AMTRB1	AMTPM-B	AMTOP
DS-200 Unfused	AMTDS2BSV	AMTDS200-B	AMTRB1	AMTPM-B	AMTOP
DS-200 Fused	AMTDS2FBSV	AMTDS200F-B	AMTRB1	AMTPM-B	AMTOP
Below the Handle Mounting with Long Rod and Brace					
EB, EHB, FB, HFB, MCP (0-4)	AMTFBBLV	AMTFB-B	AMTRB2	AMTPM-B	AMTOP
JB, KB, MCP (250 Amp)	AMTKBBLV	AMTKB-B	AMTRB2	AMTPM-B	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLBBLV	AMTLB-B	AMTRB2	AMTPM-B	AMTOP
LA, HLA, LC, HLC	AMTLABL	AMTLA-B	AMTRB2	AMTPM-B	AMTOP
MA, HMA, MC, HMC	AMTMABL	AMTMA-B	AMTRB2	AMTPM-B	AMTOP
NB, HNB, NC, HNC	AMTNBBL	AMTNB-B	AMTRB2	AMTPM-B	AMTOP
FB TRI-PAC ^①	AMTFBPBLV	AMTFBP-B	AMTRB2	AMTPM-B	AMTOP
LA TRI-PAC ^①	AMTLAPBLV	AMTLAP-B	AMTRB2	AMTPM-B	AMTOP
NB TRI-PAC ^①	AMTNBPBLV	AMTNBP-B	AMTRB2	AMTPM-B	AMTOP
DS-30, 60, 100 Unfused	AMTDSBLV	AMTDS100-B	AMTRB2	AMTPM-B	AMTOP
DS-30, 60, 100 Fused ^①	AMTDSFBLV	AMTDS100F-B	AMTRB2	AMTPM-B	AMTOP
DS-30, 60, 100 Fused ^②	AMTDSF1BLV	AMTDS100F1-B	AMTRB2	AMTPM-B	AMTOP
DS-200 Unfused	AMTDS2BLV	AMTDS200-B	AMTRB2	AMTPM-B	AMTOP
DS-200 Fused	AMTDS2FBLV	AMTDS200F-B	AMTRB2	AMTPM-B	AMTOP
Below the Handle-Fixed Width-with Short Brace and/or Rod as Listed					
EB, EHB, FB, HFB, MCP (0-4)	AMTFBBSF	AMTFB-B	AMTRB	AMTPM-F ^④	AMTOP
JB, KB, MCP (250 Amp)	AMTKBBSF	AMTKB-B	AMTRB1	AMTPM-FS	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLBBSF	AMTLB-B	AMTRB1	AMTPM-FS	AMTOP
FB, TRI-PAC ^①	AMTFBPBSF	AMTFBP-B	AMTRB	AMTPM-F ^④	AMTOP
DS-30, 60, 100 Unfused	AMTDSBSF	AMTDS100-B	AMTRB	AMTPM-F ^④	AMTOP
DS-30, 60, 100 Fused ^①	AMTDSFBSF	AMTDS100F-B	AMTRB	AMTPM-F ^④	AMTOP
DS-30, 60, 100 Fused ^②	AMTDSF1BSF	AMTDS100F1-B	AMTRB	AMTPM-F ^④	AMTOP
DS-200 Unfused	AMTDS2BSF	AMTDS200-B	AMTRB1	AMTPM-FS	AMTOP
DS-200 Fused	AMTDS2FBSF	AMTDS200F-B	AMTRB1	AMTPM-FS	AMTOP

Refer to Page 8 for accessory items.

① Changed since previous issue.

② For switches using 30, 60, 100 amp. 600 volt NEC Class H, R or J fuses.

③ For switches using 30, 60, 100 amp., 250 volt NEC Class H or R fuses.

④ Width spacer kit not included.

⑤ 100 amp frame fixed width mechanisms, use short rod only as listed at left in lieu of Operating Rod and Brace Assembly.

⑥ Fixed width pivot mechanisms shown on page 8.

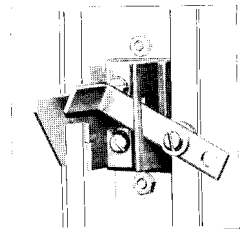


Type AMT Vari-Depth/Vari-Width Flange Mounted Handle Mechanism, Continued

Accessories

Spacer Kit to Vary Width (Not for use with fixed mechanisms)^①
Cat. Number AMTSK1^① for up to 1 inch variation.

Door Hardware Kit
Cat. No. AMTDHA

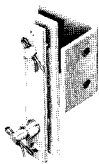


Ordering Information

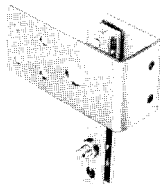
- Order a complete mechanism by catalog number. (Note: this will be shipped as the individual component parts as listed on pages 6 and 7.
- Order spacer kits or door hardware adapter as required.
- Individual component parts may be ordered by Catalog Number.

This adapter kit is for use with door hardware kits DH1R, DH2R, or DH3R shown on page 4 for type SM handle mechanisms to permit the use and interlocking of right hand installation of the type AMT handle mechanism (Below-the-Handle or Above-the-Handle type).

Fixed Width Pivot Mechanism



For FB, FB TRI-PAC, DS-30, -60, -100 Switches
Cat. No. AMTPM-F



For JB, LB, DS-200 Switches
Cat. No. AMTPM-FS

Enclosure Depth Dimensions in Inches for Operating Rod and Brace Assembly

Breaker or Switch Type	Short Rod		Long Rod	
	Cat. No.	AMTRB1	Cat. No.	AMTRB2
	Min. ^②	Max.	Min.	Max.
800, 1200 Amp Breakers	7½	14	13½	18
All others	6½	14	12½	18

① This spacer kit consists of multiples of thin spacers to be used as required. A maximum of 2 kits per installation may be used. Due to the possible variation in dimensions, hardware is not supplied. (Use standard ¼-20 bolts).

② Width spacer kits cannot be used with short rod at minimum enclosure depth.

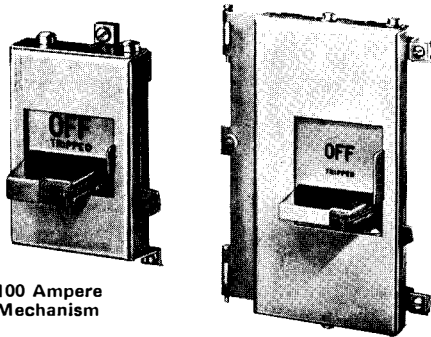


July, 1977
 Supersedes Tech. Data 29-520 T WE A,
 pages 5-6, dated March, 1976
 Mailed to: E, D, C/1901, 1902/PL

Type MC Handle Mechanism
 Type AMT Handle Mechanism for
 Above Handle Mounting

Handle Mechanisms

Type MC Motor Control Handle Mechanism



100 Ampere Mechanism

225 Ampere Mechanism

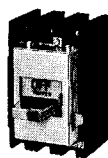

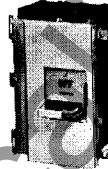

Type MC handle mechanisms are linear drive, fixed depth mechanisms designed for through-door mounting in standardized or shallow depth enclosures such as motor control centers or enclosed circuit breakers.

Mounting directly to the front of the disconnect, these mechanisms provide positive operation and handle indication. Both disconnect and mechanism mount simultaneously with mounting hardware supplied with the mechanism.

For security, the handle can be padlocked in the OFF position with up to three 3/8 inch hasp padlocks. Also, the mechanism is interlocked with the enclosure door so that the disconnect must be "OFF" before the door can be opened. A defeater is provided to by pass this interlock.

Catalog numbers listed include the mechanism, mounting hardware and door interlock clip.

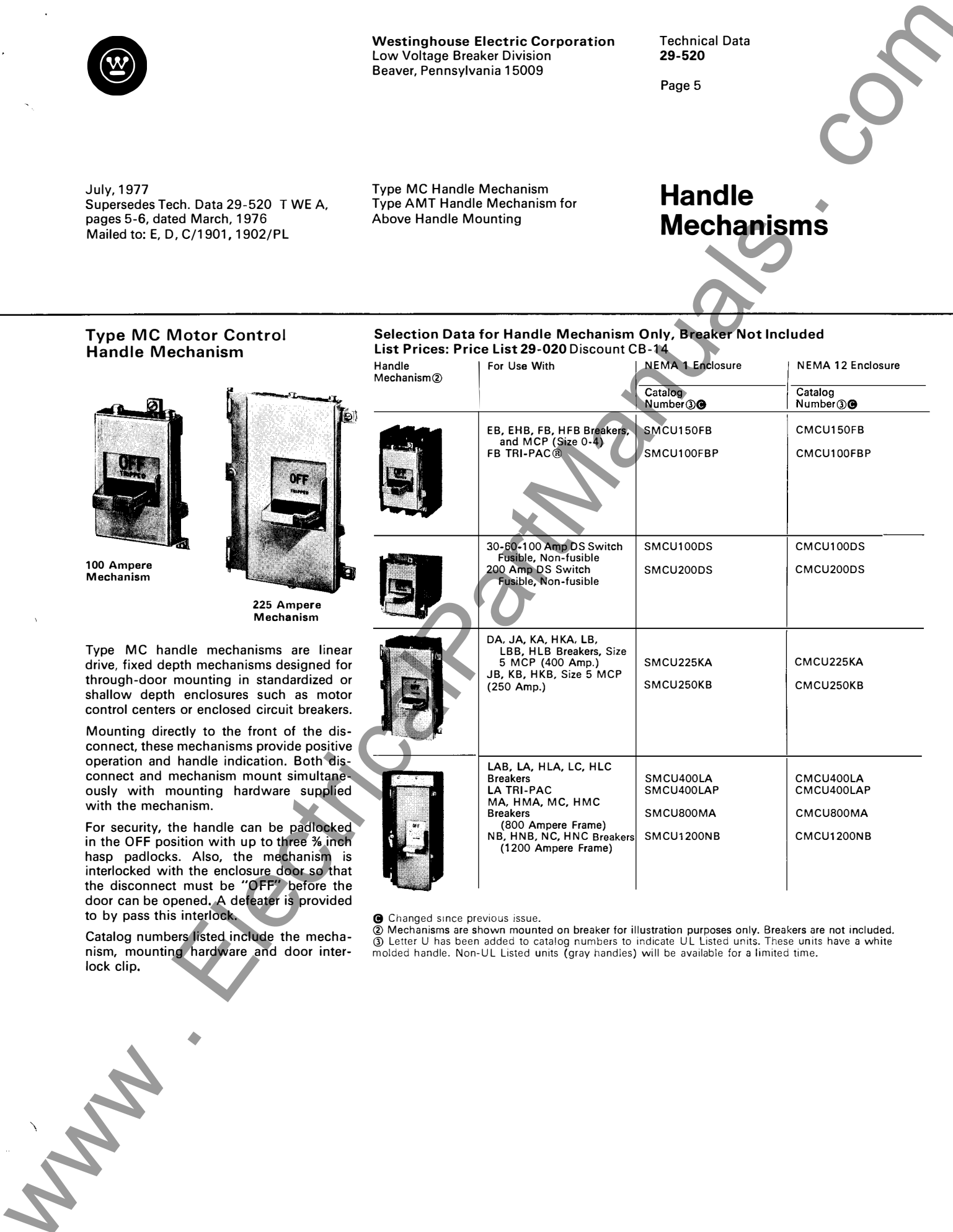
Selection Data for Handle Mechanism Only, Breaker Not Included List Prices: Price List 29-020 Discount CB-14

Handle Mechanism ^②	For Use With	NEMA 1 Enclosure	NEMA 12 Enclosure
		Catalog Number ^③ Ⓞ	Catalog Number ^③ Ⓞ
	EB, EHB, FB, HFB Breakers, and MCP (Size 0-4) FB TRI-PAC [®]	SMCU150FB SMCU100FBP	CMCU150FB CMCU100FBP
	30-60-100 Amp DS Switch Fusible, Non-fusible 200 Amp DS Switch Fusible, Non-fusible	SMCU100DS SMCU200DS	CMCU100DS CMCU200DS
	DA, JA, KA, HKA, LB, LBB, HLB Breakers, Size 5 MCP (400 Amp.) JB, KB, HKB, Size 5 MCP (250 Amp.)	SMCU225KA SMCU250KB	CMCU225KA CMCU250KB
	LAB, LA, HLA, LC, HLC Breakers LA TRI-PAC MA, HMA, MC, HMC Breakers (800 Ampere Frame) NB, HNB, NC, HNC Breakers (1200 Ampere Frame)	SMCU400LA SMCU400LAP SMCU800MA SMCU1200NB	CMCU400LA CMCU400LAP CMCU800MA CMCU1200NB

Ⓞ Changed since previous issue.

② Mechanisms are shown mounted on breaker for illustration purposes only. Breakers are not included.

③ Letter U has been added to catalog numbers to indicate UL Listed units. These units have a white molded handle. Non-UL Listed units (gray handles) will be available for a limited time.





Type AMT Vari-Depth/Vari-Width Flange Mounted Handle Mechanism

For Above Handle Mounting

The Type AMT is an extra heavy duty handle mechanism designed for mounting in flange-type enclosures, and has provisions for mounting in various depth enclosures and for varying the width relationship between the disconnect device and the external handle.

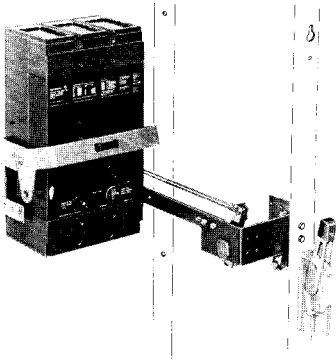
in the ON position or to close the disconnect with the enclosure door open.

The external handle can be locked in the OFF position with up to three padlocks.

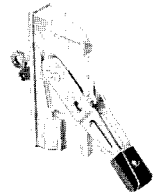
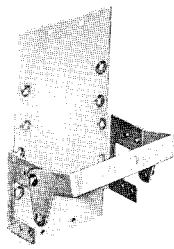
The AMT mechanism is supplied for mounting in right hand flange enclosures but can be easily converted for left hand mounting.

A door interlock is provided to prevent opening the enclosure door with the disconnect

List Prices: See Price List 29-020 P WE A Discount CB-14



Assembled Type AMT
(Breaker not Included)



Breaker or Switch Type	Backplate and Yoke Assembly Catalog Number	Operating Rod and Brace ^④		Flange Mounted Pivot Mechanism Assembly ^④ Catalog Number	External Operating Handle Catalog Number
		Short Catalog Number	Long Catalog Number		
EB, EHB, FB, HFB, MCP (0-4)	AMTFB	AMTRB1	AMTRB2	AMTPM	AMTOP
JB, KB, MCP (250 Amp)	AMTKB	AMTRB1	AMTRB2	AMTPM	AMTOP
JA, KA, HKA, LB, LBB, HLB, DA, MCP (400 Amp)	AMTLB	AMTRB1	AMTRB2	AMTPM	AMTOP
LA, HLA, LC, HLC	AMTLA	AMTRB1	AMTRB2	AMTPM	AMTOP
MA, HMA, MC, HMC, NB, HNB, NC, HNC	AMTNB	AMTRB1	AMTRB2	AMTPM	AMTOP
FB TRI-PAC [®]	AMTFB	AMTRB1	AMTRB2	AMTPM	AMTOP
LA TRI-PAC	AMTLAP	AMTRB1	AMTRB2	AMTPM	AMTOP
NB-TRI-PAC	AMTNBP	AMTRB1	AMTRB2	AMTPM	AMTOP
DS-30, 60, 100 Unfused	AMTDS100	AMTRB1	AMTRB2	AMTPM	AMTOP
DS-30, 60, 100 Fused ^①	AMTDS100F	AMTRB1	AMTRB2	AMTPM	AMTOP
DS-30, 60, 100 Fused ^②	AMTDS100F1	AMTRB1	AMTRB2	AMTPM	AMTOP
DS-200 Unfused	AMTDS200	AMTRB1	AMTRB2	AMTPM	AMTOP
DS-200 Fused	AMTDS200F	AMTRB1	AMTRB2	AMTPM	AMTOP

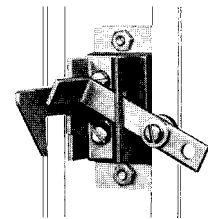
Spacer Kit to Vary the Width^⑤
Cat. Number AMTSKI^③ for up to 1 inch variation.

Enclosure Depth Dimensions in Inches for Operating Rod and Brace Assembly

Breaker or Switch Type	Short Rod		Long Rod	
	Cat. No. Min. ^⑤	AMTRB1 Max.	Cat. No. Min.	AMTRB2 Max.
800, 1200 Amp.				
Breakers	7½	14	13½	18
All others	6½	14	12½	18

Door Hardware Adapter Kit
Cat. No. A M T D H A

This adapter kit is for use with door hardware kits DH1R, DH2R, or DH3R shown on page 4 of 29-520 T WE A, for type SM handle mechanisms to permit the use and interlocking of right hand installation of the type AMT handle mechanism (Below-the-Handle or Above-the-Handle type).



Ordering Information
For 1 complete installation, order by Catalog Number:
1 – external operating handle
1 – flange mtd. pivot mech. assembly
1 – variable depth operating rod and brace assembly
1 – back plate and yoke assembly
Order spacer kits as required.

Further Information
Dimensions: Dim. Sheet 29-570

⑤ Changed or added since previous issue.

- ① For Switches using 30, 60, 100 amp, 600 volt, NEC Class H, R or J fuses.
- ② For Switches using 30, 60, 100 amp, 250 volt, NEC Class H or R fuses.
- ③ This spacer kit consists of multiples of thin spacers to be used as required. A maximum of 2 kits per installation may be used. Due to the possible variation in dimensions, hardware is not supplied. (Use standard ¼-20 bolts).
- ④ Width spacer kit not included.
- ⑤ Width spacer kits cannot be used with short rod at minimum enclosure depth.

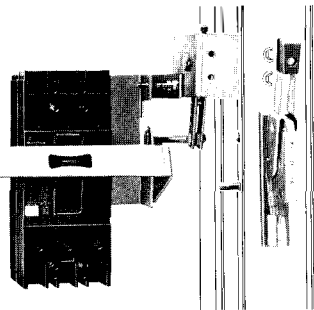


July, 1977
Supersedes Tech. Data 29-520 T WE A,
pages 7-8, dated March, 1976
Mailed to: E, D, C/1901, 1902/PL

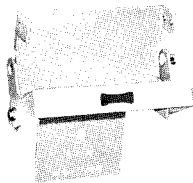
Type AMT Handle Mechanism for
Below Handle Mounting

Handle Mechanisms

Type AMT Vari-Depth/Vari-Width Flange Mounted Handle Mechanism – For Below Handle Mounting



Assembled Type AMT
(Breaker Not Included)



The Type AMT is an extra heavy duty handle mechanism designed for mounting in flange-type enclosures, and has provisions for mounting in various depth enclosures and for varying the width relationship between the disconnect device and the external handle.

A door interlock is provided to prevent opening the enclosure door with the disconnect in the ON position or to close the disconnect with the enclosure door open.

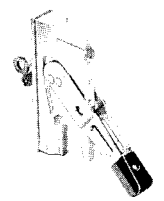
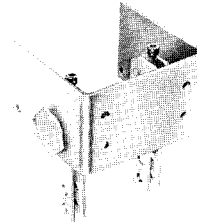
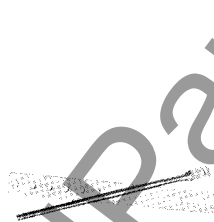
The external handle can be locked in the OFF position with up to three padlocks.

The AMT mechanism is supplied for mounting in right hand flange enclosures but can be easily converted for left hand mounting.

Mechanisms for below handle mounting are also available as fixed width units.

A door hardware adapter kit (see below) is required when using type DH door hardware with this mechanism.

List Prices: See Price List 29-020 P WE A Discount CB-14



Breaker or Switch Type	Backplate and Yoke Assembly Catalog Number	Operating Rod and Brace Assembly ^④		Flange Mounted Pivot Mechanism Assembly ^④ Catalog Number	Fixed Width Pivot Assembly (Illus. Below) ^⑤ Catalog Number	External Operating Handle Catalog Number
		Short Catalog Number	Long Catalog Number			
EB, EHB, FB, HFB, MCP (0-4)	AMTFB-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-F ^⑥	AMTOP
JB, KB, MCP (250 Amp)	AMTKB-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-FS	AMTOP
JA, KA, HKA, LB, LBB, HLB DA, MCP (400 Amp)	AMTLB-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-FS	AMTOP
LA, HLA, LC, HLC	AMTLA-B	AMTRB1	AMTRB2	AMTPM-B	.....	AMTOP
MA, HMA, MC, HMC, NB, HNB, NC, HNC	AMTNB-B	AMTRB1	AMTRB2	AMTPM-B	.....	AMTOP
FB, TRI-PAC [®]	AMTFBP-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-F ^⑥	AMTOP
LA TRI-PAC	AMTLAP-B	AMTRB1	AMTRB2	AMTPM-B	.....	AMTOP
NB TRI-PAC	AMTNBP-B	AMTRB1	AMTRB2	AMTPM-B	.....	AMTOP
DS-30, 60, 100 Unfused	AMTDS100-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-F ^⑥	AMTOP
DS-30, 60, 100 Fused ^①	AMTDS100F-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-F ^⑥	AMTOP
DS-30, 60, 100 Fused ^②	AMTDS100F1-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-F ^⑥	AMTOP
DS-200 Unfused	AMTDS200-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-FS	AMTOP
DS-200 Fused	AMTDS200F-B	AMTRB1	AMTRB2	AMTPM-B	AMTPM-FS	AMTOP

Spacer Kit to Vary the Width (Not For Use With Fixed Width Mechanisms)^③

Cat. Number AMTSKJ^③ for up to 1 inch variation:

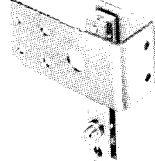
Enclosure Depth Dimensions in Inches for Operating Rod and Brace Assembly

Breaker or Switch Type	Short Rod		Long Rod	
	Cat. No. Min. ^⑥	AMTRB1 Max.	Cat. No. Min.	AMTRB2 Max.
800, 1200 Amp Breakers	7½	14	13½	18
All others	6½	14	12½	18

Fixed Width Pivot Mechanisms



For FB, F, B TRI-PAC
DS-30, -60, -100 Switches



For JB, LB, DS-200
Switches

Short Rod Only for 100 Amp Frame Fixed Width Mechanisms

Cat. No. AMTR

Ordering Information

For 1 complete installation, order by Cat. No.:

- 1 – external operating handle
- 1 – flange mtd. pivot mech. assembly
- 1 – variable depth operating rod and brace assembly, or rod only^④.
- 1 – back plate and yoke assembly

Order spacer kits as required

Door Hardware Adapter Kit

Required when using Type DH door hardware. Refer to page 6.

Further Information

Dimensions: Dim. Sheet 29-570

- ③ Changed or added since previous issue.
- ① For Switches using 30, 60, 100 amp, NEC Class H, R or J fuses.
- ② For Switches using 30, 60, 100 amp, 250 volt, NEC Class H or R fuses.
- ③ This spacer kit consists of multiples of thin spacers to be used as required. A maximum of 2 kits per installation may be used. Due to the possible variation in dimensions, hardware is not supplied. (Use standard ¼-20 bolts).
- ④ Width spacer kit not included.
- ⑤ For 100 amp frame, fixed width mechanisms, use short rod only listed below, in lieu of Operating Rod and Brace assembly.
- ⑥ Width spacer kits cannot be used with short rod at minimum enclosure depth.



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