APPLICATION GUIDE

Modular metering

Mini Mod™ III product family

by ABB

Table of contents

Mini Mod III

4 Selection guidelines and nomenclature

5 Photos

7 Ring -type and ringless

8 Ring -type and ringless - MEG approved 125A & 200A sockets

9 Tenant main breakers

10 Lug kits

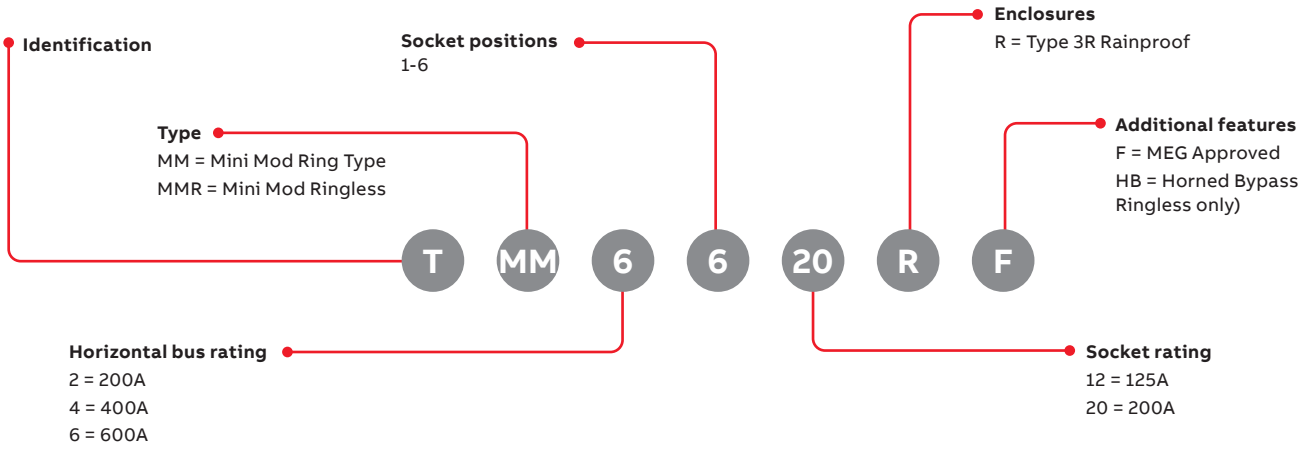
11 Field installed accessories

13 Other publications and references

Mini Mod III

Selection guidelines and nomenclature

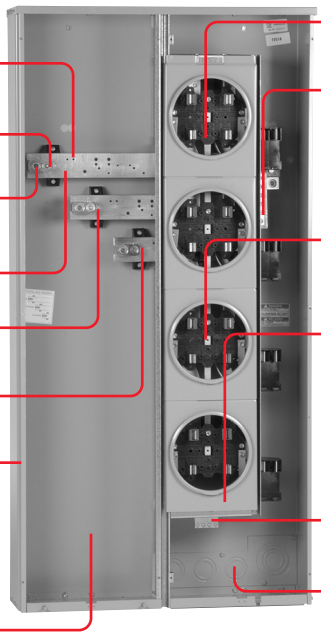
Mini Mod III nomenclature



Mini Mod III

Product features

125A socket, single phase ring type



Bonding provisions in pull and wireway sections, strap included

Neutral lug

Main lugs factory installed

Busbar tin-plated aluminum

A-phase

B-phase

Enclosure

Underground feed

Vertical neutral bus

Neutral assembly
One Cu Al Lug per socket

Amp	AWG/MCM
125	6-2/0

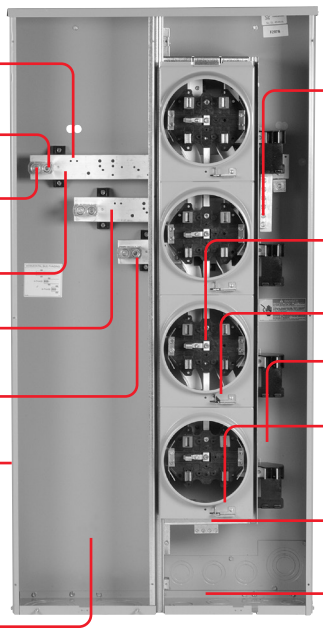
Fifth jaw (bused) mounts here
Provisions for 3, 6 o'clock mounting

Meter cover (ring type)
16 gauge, individual, front removable, captive screws

Equipment ground
(1) 14-4 Cu Al per socket

Back KO plate
16 gauge removable

125A socket, single phase ringless



Bonding provisions in pull and wireway sections, strap included

Neutral lug

Main lugs factory installed

Busbar tin-plated aluminum

A-phase

B-phase

Enclosure

Underground feed

Neutral assembly
One Cu Al Lug per socket

Amp	AWG/MCM
125	6-2/0

Fifth jaw
Provisions for 3, 6 o'clock mounting

Breaker mounting base 125A

Swing padlock

Meter cover (ring type)
16 gauge, individual, front removable, captive screws

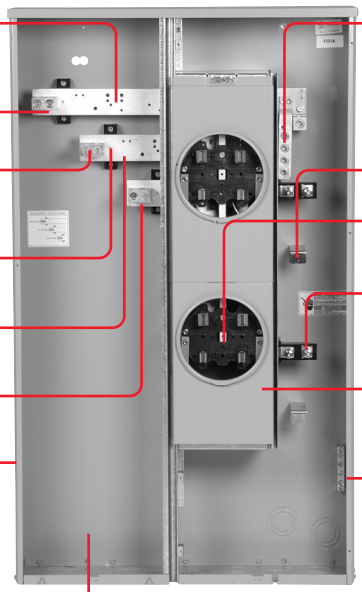
Equipment ground
(1) 14-4 Cu Al per socket

Back KO plate
16 gauge removable

Mini Mod III

Product features

200A socket, single phase ring type



Bonding provisions in pull and wireway sections, strap included

Neutral lug

Main lugs factory installed

Busbar tin-plated aluminum

A-phase

B-phase

Enclosure

Underground feed

Neutral assembly
One Cu Al Lug per socket

Amp	AWG/MCM
200	1/0-300

Breaker mounting pad

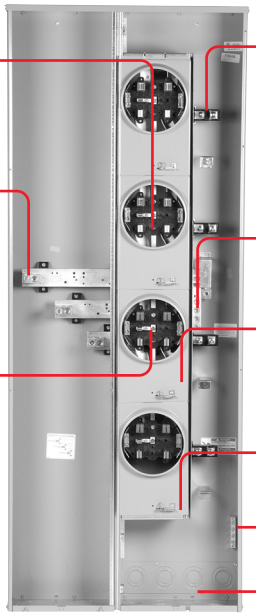
Fifth jaw (bused) mounts here
Provisions for 3, 6 o'clock mounting

Breaker mounting base
Threaded stud for breaker mounting
Order TQD breaker with load lugs only

Meter cover (ring type)
16 gauge, individual, front removable, captive screws

Equipment ground
(1) 14-4 Cu Al per socket

200A socket, single phase ringless



Vertical neutral bus

Main lugs factory installed

Fifth jaw ships standard with ringless meter sockets
Provisions for 3, 6, 9 o'clock mounting

Breaker mounting location
200A TQD/THQD/TMQD mounting
2-pole only
TQD mounting kit included

Neutral, one lug per socket

Meter cover (ring type)
16 gauge, individual, front removable, captive screws

Spring padlock

Ground bar

Back KO plate
16 gauge removable

Mini Mod III

Ring-type and ringless

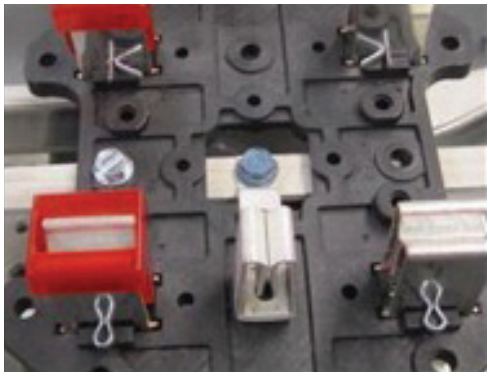
- UL listed (panelboards no. 67)
- Indoor/outdoor construction
- Ring-type and ringless meter sockets
- Bondable neutral, strap included
- 11-inch mounting Z rail included
- Swing away mounting feet factory installed
- Underground, incoming feed only

Socket Amps	No. of Sockets	Main Ampere Rating	Ring-Type Socket[1]	Ringless Type Socket	Ringless Type Socket 5 Jaw Socket Standard) Horned Bypass Factory Installed	Main Wire Size AWG/kcmil Cu/Al - Phase	Service Ground	Equipment Ground
125	2	200	TMM2212R[2]	TMMR2212R[2]	TMMR2212RHB[2]	(1) 6-300	6-2/0	14-4
	3	400	TMM4312R	TMMR4312R	TMMR4312RHB	(1) 6-600 or (2) 2/0-250	4-300	
	4	400	TMM4412R	TMMR4412R	TMMR4412RHB			
	5	600	TMM6512R	TMMR6512R	TMMR6512RHB	(2) 250-500		
	6	600	TMM6612R	TMMR6612R	TMMR6612RHB			
200	2	400	TMM4220R	TMMR4220R	TMMR4220RHB	(2) 250-500	6-2/0	14-4
	3	600	TMM6320R	TMMR6320R	TMMR6320RHB		4-300	
	4	600	TMM6420R	TMMR6420R	TMMR6420RHB			
	5	600	TMM6520R	TMMR6520R	TMMR6520RHB			
	6	600	TMM6620R	TMMR6620R	TMMR6620RHB			

[1]One snap-type, aluminum sealing ring (TSR5) per socket included
[2]May be fed from overhead. Use hub TC300.

Mini Mod III

Ring-type and ringless - MEG approved 125A & 200A sockets



These MEG approved units have an added cotter pin that eliminates failure of the metering stabs when the meter is plugged into the meter base.

- UL listed (panelboards no. 67)
- Indoor/outdoor construction
- Ring-type and ringless meter sockets
- Bondable neutral, strap included
- 11-inch mounting Z rail included
- Swing away mounting feet factory installed
- Underground, incoming feed only

Socket Amps	No. of Sockets	Main Ampere Rating	Ring-Type Socket[1]	Ringless Socket (5th Jaw Socket Standard)	Main Wire Size AWG/kcmil Cu/Al - Phase	Service Ground	Equipment Ground
125	2	200	TMM2212RF2	TMMR2212RF[2]	(1) 6-300	6-2/0	14-4
	3	400	TMM4312RF	TMMR4312RF	(1) 6-600 or (2) 2/0-250	4-300	
	4	400	TMM4412RF	TMMR4412RF			
	5	600	TMM6512RF	TMMR6512RF	(2) 250-500		
	6	600	TMM6612RF	TMMR6612RF			
200	2	400	Use TMM6320R	TMMR4220RF	(2) 250-500	6-2/0	14-4
	3	600	TMM6320RF	TMMR6320RF		4-300	
	4	600	TMM6420RF	TMMR6420RF			
	5	600	Use Ringless or Meter Mod III	TMMR6520RF			
	6	600	Use Ringless or Meter Mod III	TMMR6620RF			

[1]One snap-type, aluminum sealing ring (TSR5) per socket included.
[2]May be fed from overhead. Use hub TC300.

Mini Mod III

Tenant main breakers

Tenant main breakers for 125A, 2 pole sockets

Amps	10kAIC	22kAIC	Wire Size
60	THQL2160	THHQL2160	(1) #8-#3 CU; #8-#3AL
70	THQL2170	THHQL2170	(1) #6-1/0 CU; #4-#1/0 AL
80	THQL2180	THHQL2180	
90	THQL2190	THHQL2190	
100	THQL21100	THHQL21100	(1) #2-2/0 CU; #2-2/0 AL
110	THQL21110	THHQL21110	–
125	THQL21125	THHQL21125	(1) #2-2/0 CU; #2-2/0 AL
125	TMQL21125SF[1]	–	–

[1]Sub-Feed lug. No overcurrent protection.

Tenant main breakers for 125A, 2 pole sockets

Amps	QL 42 kAIC	Wire Size	QA 65 kAIC	Wire Size
60	TMQL2160	#8-#1 (Cu) or #8-1/0 (Al)	TMQA2160	#8-2/0
70	TMQL2170		TMQA2170	
80	TMQL2180		TMQA2180	
90	TMQL2190		TMQA2190	
100	TMQL21100		TMQA2100	
110	–		TMQA2110	
125	TMQL21125	2/0 - #14	TMQA2125	

Tenant main breakers for 200A, 2 pole sockets

Amps	10kAIC	22kAIC	Wire Size
100	TQD22100	THQD22100	(1) #1-300 CU; #1-300 AL
125	TQD22125	THQD22125	
150	TQD22150	THQD22150	
175	TQD22175	THQD22175	
200	TQD22200	THQD22200	

Tenant main circuit breakers for 200A, 2 pole sockets

Amps	QC 42 kAIC	QF 65 kAIC	QV 100 kAIC	Wire Size
60	TMQC22060MM	TMQF22060MM	TMQV22060MM	#6-4/0[2]
70	TMQC22070MM	TMQF22070MM	TMQV22070MM	
80	TMQC22080MM	TMQF22080MM	TMQV22080MM	
90	TMQC22090MM	TMQF22090MM	TMQV22090MM	
100	TMQC22100MM	TMQF22100MM	TMQV22100MM	
110	TMQC22110MM	TMQF22110MM	TMQV22110MM	
125	TMQC22125MM	TMQF22125MM	TMQV22125MM	
150	TMQC22150MM	TMQF22150MM	TMQV22150MM	
175	TMQC22175MM	TMQF22175MM	TMQV22175MM	
200	TMQC22200MM	TMQF22200MM	TMQV22200MM	

[2]For 60A-200A 2P breakers use TMQV225L2 to get 300MCM terminals.

Mini Mod III

Lug kits

Factory installed lug kits

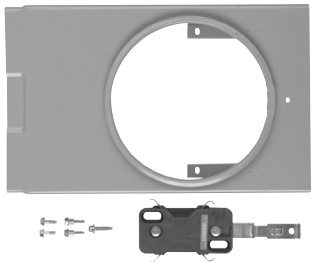
Amp Rating	Mini Mod III			Catalog No.	Phase Wire Size	Neutral Wire Size	Lugs per Kit
	Ring-Type Socket	Ringless Socket	Ringless Socket MEG Approved (5th Jaw Socket Standard)				
125	TMM2212R	TMMR2212R	TMMR2212RF	–	6-300	6-300	–
	TMM4312R	TMMR4312R	TMMR4312RF	TMMLK1	(1) 2/0-600 or (2) 6-250	(1) 2/0-600 or (2) 6-250	1 lug/kit; 1 lug/phase; 2 hole lug
	TMM4412R	TMMR4412R	TMMR4412RF				
	TMM6512R	TMMR6512R	TMMR6512RF	TMPAL30	(2) 250-500/lug	(2) 250-500/lug	1 lug/kit; 1 lug/phase
	TMM6612R	TMMR6612R	TMMR6612RF				
200	TMM4220R	TMMR4220R	TMMR4220RF	TMPAL30	(2) 250-500/lug	(2) 250-500/lug	1 lug/kit; 1 lug/phase
	TMM6320R	TMMR6320R	TMMR6320RF				
	TMM6420R	TMMR6420R	TMMR6420RF				
	TMM6520R	TMMR6520R	TMMR6520RF				
	TMM6620R	TMMR6620R	TMMR6620RF				

Factory optional lug kits and optional compression lug kits

Amp Rating	Mini Mod III			Lug Kit Catalog No.	Phase Wire Size	Lug Kit Catalog No.	Phase Wire Size	Lugs per Kit
	Ring-Type Socket	Ringless Socket	Ringless Socket MEG Approved (5th Jaw Socket Standard)					
125	TMM4312R	TMMR4312R	TMMR4312RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	2 studs/phase, double stack for up to 2 conductors per phase, kit includes 3 lug landing pads (1 kit/device)
				TMPAL30	(2) 250-500 / lug	–	–	
	TMM4412R	TMMR4412R	TMMR4412RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMPAL30	(2) 250-500 / lug	–	–	
	TMM6512R	TMMR6512R	TMMR6512RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
	TMM6612R	TMMR6612R	TMMR6612RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
200	TMM4220R	TMMR4220R	TMMR4220RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
	TMM6320R	TMMR6320R	TMMR6320RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
	TMM6420R	TMMR6420R	TMMR6420RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
	TMM6520R	TMMR6520R	TMMR6520RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	
	TMM6620R	TMMR6620R	TMMR6620RF	TMPAL40	(3) 4-300	TMM6CLL	Compression	
				TMMLK1	(1) 2/0-600 or (2) 6-250	–	–	

Mini Mod III

Field installed accessories



TMBPM12TA

TMBPJ20

TMBPC20

TMM12SF2

TMM20SF4

By-pass kits

Description		Catalog No.
Manual Slider-Type (Ring Type Only)[1]	125 amp top socket for 2, 3, 5 and 6 gang	TMBPM12TA[2]
	125 amp for all other sockets	TMBPM12A[2]
	200 amp for all sockets	TMBPM20A[2]
Jumper Straps Type[1] (use with TMCA)		TMBPJ20[3]
Cover Includes Jumper Strap Type-fits all (Ring Type Only)		TMBPC20[1]
Horn Type-fits all (Ringless Only)[1]		TMBPH20A[3]

[1]100 amps continuous.
[2]For top socket on TMM4220R, order TMBPM20TA.
[3]200 amps continuous.

Semi-flush kits

Socket Rating	Description	Catalog No.
125A Sockets	2 gang	TMM12SF2
	3 and 4 gang	TMM12SF4
	5 and 6 gang	TMM12SF6
200A Sockets	2 gang	TMM20SF2
	3 and 4 gang	TMM20SF4
	5 and 6 gang	TMM20SF6

Fifth jaw kits

Description	Catalog No.
Bused; 3, 6, or 9 o'clock mounting Order two for fifth and sixth jaw. Not suitable for 2-gang ring type	TM5JA
Isolated; 3 or 9 o'clock mounting	TM5JUA

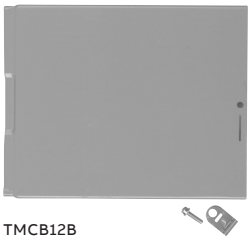
Compression lug landing kit

Description	Catalog No.
600 amp	TMM6CLL

Includes 3 pads each with 2 threaded stud connections (and hardware) for compression or mechanical lugs with NEMA 2-hole bolt configuration (lugs not furnished). Not suitable for 2-gang.

Mini Mod III

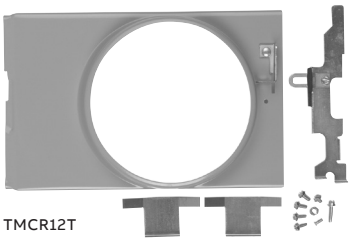
Field installed accessories (continued)



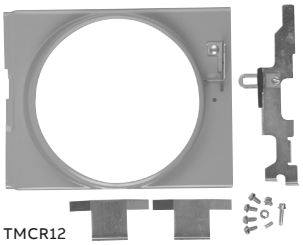
TMCB12B

Steel meter socket covers

Description		Catalog No.
Blank (fits bottom position only)	125 Amp	TMCB12B
	200 Amp	TMCB20B
Ringless (Field -converts ring-type to ringless)	125 amp top socket for 2 and 3 gang	TMCR12T
	125 amp for all other sockets	TMCR12
	200 amp for all sockets	TMCR20



TMCR12T



TMCR12

Sealing rings

Description	Material	Catalog No.
Screw Type	Aluminum	TSR1
Snap Type	Stainless Steel	TSR3
Screw and Lock Type	Aluminum	TSR4
Snap Type	Aluminum (Standard)	TSR5

TSR1

TSR3

TSR4

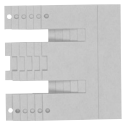
TSR5

Mini Mod III

Field installed accessories (continued)

TMCA

TMCP



TMBR

TMPAL40

TMZR

Miscellaneous

Description	Catalog No.
Lexan Meter Socket Cover Plate (without tabs)	TMCA
Lexan Meter Socket Cover Plate	TMCP
Equipment Ground Bar, (6) 6-2/0	TMEG
Individual Meter Socket Barrier Kit (includes 6)	TMBR
Mounting Z-Rail, 4-foot	TMZR
Lug Kit for (3) 4/0 cable	TMPAL40

Other publications and references

Refer to these publications and resources for additional information about our products:

Pub No.	Title
DET-008	UL Component Recognized Series-Connected Ratings
DET-388	Renewal Parts
DET-395	Construction and Details
DET-838	Residential Electronic Circuit Interrupters
DET-843	Houses to High Rises
DET-848	Modular Metering Application Guide
DET-856	Modular Metering Stock Selection Guide

Visit our website: electrification.us.abb.com/products/modular-metering for links to the above publications and additional information such as time current curves, outline and dimensional drawings, installation instructions, application and technical information.

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