



**Bulletin 141A MCS Mounting System**

- Modularity makes planning easy
- Factory-assembled starters
- Easy starter exchange
- Flexible field assembly of starters
  - DOL starters
  - Reversing starters
  - Star-Delta starters
  - Soft starters
  - Inverter
  - Complete range of accessories
- 3 mounting methods
  - On busbars
  - On 35 mm and 75 mm top hat rails
  - Screw fixing

**Table of Contents**

Product Selection ....  
 ISO Busbar  
 Modules ..... 2-273  
 Standard Busbar  
 Modules ..... 2-274  
 Panel Mounting  
 Modules ..... 2-275  
 Accessories ..... 2-282  
 Specifications ..... 2-283

**Standards Compliance**

UL 508  
 CSA 22.2 No. 14  
 EN 60947

**Certifications**

CE  
 cULus

Examples given in this section are for reference purposes. This basic explanation should not be used for product selection; not all combinations will produce a valid catalog number.

**141A – G S 45 R R 25**  
                   *a*    *b*    *c*    *d*    *e*    *f*    *g*

**a**

Type	
Code	Description
C	Compact standard busbar module with wires
G	Standard busbar module with wires

**c**

Width	
Code	Description
45	45 mm
54	54 mm
63	63 mm
72	72 mm
81	81 mm
90	90 mm
180	180 mm
270	270 mm

**d**

Top Hat Rail	
Code	Description
R	RA-specific plastic rail
S	Standard plastic rail
M	Metal rail

**f**

Current Rating	
Code	Description
Blank	0 A (no wires)
16	16 A
25	32 A
45	63 A
125	125 A

**b**

Length	
Code	Description
C	Compact (160 mm)
S	Short (200 mm)
M	Medium (260 mm)

**e**

Bottom Hat Rail	
Code	Description
R	RA-specific rail
S	Standard rail
H	Rail carrier
Blank	No bottom rail

**g**

Frame Size	
Code	Description
H	For 140U-H or 140M-H

**141A – F S 45 R S 25**  
                   *a*    *b*    *c*    *d*    *e*    *f*    *g*

**a**

Type	
Code	Description
F	Standard busbar module with terminals

**c**

Width	
Code	Description
45	45 mm
54	54 mm
63	63 mm
72	72 mm
81	81 mm
108	108 mm
110	110 mm

**d**

Top Hat Rail	
Code	Description
R	RA-specific plastic rail
S	Standard plastic rail
V	Screw mounting variable positions

**e**

Bottom Hat Rail	
Code	Description
S	Standard rail
Blank	No bottom rail

**b**

Length	
Code	Description
S	Short (200 mm)
M	Medium (260 mm)
L	Long (320 mm)

**f**





Current Rating	
Code	Description
25	32 A
63	63 A
200	200 A
250	250 A

**g**

Terminal Location	
Code	Description
Blank	Terminals on top
T	Terminals on top
B	Terminals on bottom

Bulletin 141A  
**MCS Mounting System**  
 Product Selection

Busbar Components

	Description	Ampere Rating *	Height x Width (mm)	Pkg. Qty.	Cat. No.
	<b>Busbar</b> 800 mm length Tinned copper busbar*	200	12 x 5	3	141A-B125A
		250‡	15 x 5		141A-B155A
		320	20 x 5		141A-B205A
		400‡	25 x 5		141A-B255A
		450	30 x 5		141A-B305A
		360	12 x 10		141A-B1210A
		520	20 x 10		141A-B2010A
		630	30 x 10		141A-B3010A
	<b>Busbar</b> 1200 mm length Tinned copper busbar*	200	12 x 5	3	141A-B125C
		250‡	15 x 5		141A-B155C
		320	20 x 5		141A-B205C
		400‡	25 x 5		141A-B255C
		450	30 x 5		141A-B305C
		360	12 x 10		141A-B1210C
		520	20 x 10		141A-B2010C
		630	30 x 10		141A-B3010C
	<b>Busbar</b> 2400 mm length Tinned copper busbar*	200	12 x 5	12	141A-B125N
		250‡	15 x 5		141A-B155N
		320	20 x 5		141A-B205N
		400‡	25 x 5		141A-B255N
		450	30 x 5	6	141A-B305N
		360	12 x 10		141A-B1210N
		520	20 x 10		141A-B2010N
		630	30 x 10		141A-B3010N
	<b>Double-T Busbar</b> 2400 mm length Tin-plated copper busbar	960	TT	1	141A-BT11NZ
		1250	TT	1	141A-BT12NZ

\* Ratings shown are based upon tested conditions at an ambient temperature of 40 °C and a busbar temperature of 70 °C.

\* Only available in North America.

‡ IEC applications only

2



Bulletin 141A  
**MCS Mounting System**  
 Specifications

Short-Circuit Current Ratings (support spacing at 800 mm)

Cat. No.	Description	Max. Circuit Bkr. Cat. No.	C. B. Rating	SCCR		Max. Class CC, J or T Fuse	SCCR 480V	Max. Class CC, J or T Fuse	SCCR 600V
				480V	600V				
141A-B125*	12x5 Copper Bus Bar	140U-J6D3-D25	250 A	65 kA	25 kA	400 A	100 kA	400 A	100 kA
141A-B1210*	12x10 Copper Bus Bar	140U-J6D3-D25	250 A	65 kA	25 kA	400 A	100 kA	400 A	100 kA
141A-B205*	20x5 Copper Bus Bar	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	400 A	100 kA
141A-B2010*	20x10 Copper Bus Bar	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	400 A	100 kA
141A-B305*	30x5 Copper Bus Bar	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	500 A	100 kA
		140U-L6D3-D60	600 A	—	35 kA	500 A	100 kA	500 A	100 kA
141A-B3010*	30x10 Copper Bus Bar	140U-K6D3-D40	400 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
		140U-L6D3-D60	600 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
141A-BT1*NZ	TT Copper Bus Bar	140U-M6D3-D80	800 A	65 kA	30 kA	800 A Class T	100 kA	600 A	100 kA
141A-TU3	Bus Bar Support	140U-K6D3-D40	400 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
		140U-L6D3-D60	600 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
141A-T13	Bus Bar Support	140U-M6D3-D80	800 A	65 kA	30 kA	800 A Class T	100 kA	600 A	100 kA
141A-TR3E	BB Support End Cover	140U-K6D3-D40	400 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
		140U-L6D3-D60	600 A	65 kA	35kA	600 A	100 kA	600 A	100 kA
141A-T13E	BB Support End Cover	140U-M6D3-D80	800 A	65 kA	30 kA	800 A Class T	100 kA	600 A	100 kA
141A-VN370	Supply Module	140U-J6D3-D25	250 A	65 kA	25 kA	400 A	100 kA	400 A	100 kA
141A-VN3120	Supply Module	140U-K6D3-D40	400 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
		140U-L6D3-D60	600 A	65 kA	35 kA	600 A	100 kA	600 A	100 kA
141A-VN3185	Supply Module	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	300 A	100 kA
141A-VN3300R	Supply Module	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	300 A	100 kA
141A-VU3300R	Supply Module	140U-K6D3-D40	400 A	65 kA	35 kA	500 A	100 kA	300 A	100 kA
141A-VS54136F	Profile Terminals	140U-M6D3-D80	800 A	65 kA	30 kA	800 A Class T	100 kA	600 A	100 kA
141A-CUH125B	Circuit Breaker Module	140U-H6C3-D12	125 A	65 kA	25 kA	N/A	N/A	N/A	N/A
141A-CUH125T	Circuit Breaker Module	140U-H6C3-D12	125 A	65 kA	25 kA	N/A	N/A	N/A	N/A
141A-CUJ250	Circuit Breaker Module	140U-J6D3-D25	250 A	65 kA	25 kA	N/A	N/A	N/A	N/A
141A-CUL600	Circuit Breaker Module	140U-K6D3-D40	400 A	65 kA	35 kA	N/A	N/A	N/A	N/A
		140U-L6D3-D60	600 A	65 kA	35 kA	N/A	N/A	N/A	N/A
141A-SS*25 141A-SM*25 141A-GS*25 141A-GM*25 141A-FS*25 141A-FM*25	Bus Bar Module	140M-C2E-B16	1.6 A	65 kA	47 kA	30 A	100 kA	30 A	100 kA
		140M-C2E-C10	10 A	65 kA	30 kA	30 A	100 kA	30 A	100 kA
		140M-C2E-C25	25 A	30 kA	30 kA	30 A	100 kA	30 A	100 kA
		140M-D8E-C25	25 A	65 kA	30 kA	30 A	100 kA	30 A	100 kA
		140M-F8E-C32	32A	65 kA	30 kA	—	—	—	—
141A-SS*45 141A-SM*45 141A-GS*45 141A-GM*45	Bus Bar Module	140M-F8E-C45	45 A	65 kA	18 kA	—	—	—	—

Busbars (required quality)

Material		E-CU blank or tinned
Busbar widths 5 or 10 mm thick	[mm]	12, 15, 20, 25, 30
Tolerance of thickness	[mm]	+0.1/-0.3
Corner radius	[mm]	0.5
Tolerance of center spacing	[mm]	60 +0.5/-0.5
Standard		DIN 46433

General Data

Main Circuits

Rated insulation voltage $U_i$		
Acc. to IEC, EN	[V]	690
Acc. to UL, NEMA, CSA, EEMAC	[V]	600
Rated impulse withstand voltage $U_{imp}$	[kV]	8
Rated frequency	[Hz]	50...60
Pollution degree		3
Ambient temperature		
Operation	[°C]	-25...+60
Transport and storage	[°C]	-50...+80

Protection class	
- Modules and busbars	IP00
- Modules and busbars mounted on plate, connected conductors and usage of busbar covers	IP20
- Iso-Modules with device adapter plate removed, from front	IP20 B (finger proof)
Standards and Norms	IEC/EN 60439-1
Certifications	CE, cULus Recognized

