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EF2 Series

Supports up to 400A, ZERO SCREW terminal blocks

Product		400	250	200	150	60	30
Part number	Push type	-	-	-	-	EF2-D60B-1	EF2-D30B-1
	Twist type	EF2A-D400B-1	EF2A-D250B-1	EF2A-D200B-1	EF2A-D150B-1	-	-
	One-sided screw type (Push)	-	-	-	-	EF2-DH60B-1	EF2-DH30B-1
	One-sided screw type (Twist)	EF2A-DH400B-1	EF2A-DH250B-1	EF2A-DH200B-1	EF2A-DH150B-1	-	-
Image							
Rated current		400A : 200mm <sup>2</sup> (400MCM)	310A : 150mm <sup>2</sup> (250MCM)	175A : 60mm <sup>2</sup> (AWG#1/0) 240A : 100mm <sup>2</sup> (AWG#4/0)	94A : 22mm <sup>2</sup> (AWG#4) 132A : 38mm <sup>2</sup> (AWG#2) 175A : 60mm <sup>2</sup> (AWG#1/0)	40A : 5.5mm <sup>2</sup> (AWG#10) 50A : 8mm <sup>2</sup> (AWG#8) 70A : 14mm <sup>2</sup> (AWG#6)	16A : 1.25mm <sup>2</sup> (AWG#16) 21A : 2mm <sup>2</sup> (AWG#14) 30A : 3.5mm <sup>2</sup> (AWG#12) 40A : 5.5mm <sup>2</sup> (AWG#10)
Rated voltage		AC 1,000V、DC1,500V				AC / DC 600V	
Withstanding voltage		5000V AC for 1minute				2500 AC for 1minute	
Contact resistance		0.1mΩ max. (1A DC)				1mΩ max. (1A DC)	
Operating temperature		-25 to +105℃ (Including the temperature rising by current flow.)					
Durability		50 times					
Environmental standards		RoHS2 compliant					
Compatible terminal		"R200-16" from Nichifu or JST, or equivalent terminal	"R150-16" from Nichifu or JST, or equivalent terminal	"R60-12" or "R100-12" from Nichifu or JST, or equivalent terminal	"R22-12", "R38-12" or "R60-12" from Nichifu or JST, or equivalent terminal	"R5.5-6", "R8-5" or "R14-5" from Nichifu or JST, or equivalent terminal	"R1.25-5", "R2-5", "R3.5-4" or "R5.5-4" from Nichifu or "R1.25", "R2-5", "3.5-R4" or "R5.5-4" from JST, or equivalent terminal

- Please choose a terminal with a large hole diameter as much as possible.
- ⚠\*Terminal thickness is important. Using an inappropriate crimp terminal may result in performance degradation and serious accident. Please make sure to use applicable terminals.

Part number configuration

EF2 - DH150B - 1 (01)

①Series name

EF2 : Push type  
EF2A : Twist

②Mount type

D : DIN rail mount type

③Connection type

Blank : Single action type  
H : One-sided screw type

④Current capacity sign

⑤Protect design

Blank=No protection design  
B=With protection design

⑥Linked quality

(D150 type only)

⑦Plate

Blank=With end plate  
(01)=No end plate

Crimp terminal conformity table												
Current capacity	R1.25	R2	R3.5	R5.5	R8	R14	R22	R38	R60	R100	R150	R200
30	○	○	○	○	×	×	×	×	×	×	×	×
60	×	×	×	○	○	○	×	×	×	×	×	×
150	×	×	×	×	×	×	○	○	○	×	×	×
200	×	×	×	×	×	×	×	×	○	○	×	×
250	×	×	×	×	×	×	×	×	×	×	○	×
400	×	×	×	×	×	×	×	×	×	×	×	○

○ : Usable crimp terminals,    × : Unusable crimp terminals

Safety Precautions

⚠ Warnings

- Do not touch the exposed conductor while it is energized. Failure to follow this warning could result an electric shock and injury.

- The power to be turned off when inserting or extracting the crimp terminal.

- After mating the crimp terminal, pull the cable gently to confirm that it will not be disconnected. If it is not mated correctly, the cable will be removed. An incomplete mating will cause disconnection or contact failure which lead significant danger.

\*Please check our Guideline for more details.

ZERO SCREW™ Terminal block (EF2 series) special site →

ZERO SCREW

Search

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The information in this brochure is as of Nov. 2021. Hirose reserves the right to make any adjustments to the information contained herein without notice.

Supports up to 400A, ZERO SCREW terminal blocks

EF2 series

Next generation terminal block with single action

ZERO SCREW™

JIS C 8201-7-1

NECA C 2811 (Old JIS 2811)

Push type

One-sided screw type

Twist type

HIROSE ELECTRIC CO.,LTD.



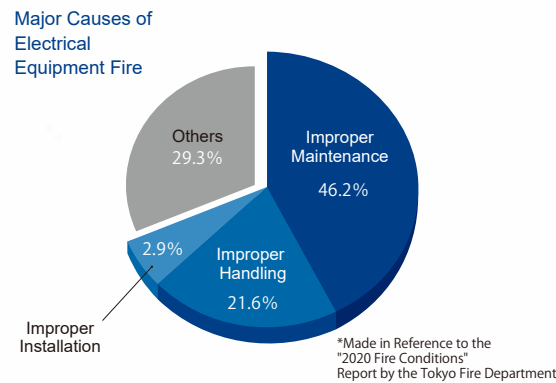
# The Zero Screw Solution.

**ZERO SCREW terminal block achieves enhanced safety and reduces construction time.**

ZERO SCREW terminal block (EF2 Series) can be connected in a single action without screws. Simply insert the ring terminal to connect. Since a highly reliable contact can be maintained over a long time period, maintenance work is also reduced. It is a new choice of terminal block that improves the work quality, construction time and the safety of electrical facilities.

## 1 Reduced Electrical Equipment Fire Risk

Maintains Stable Connection



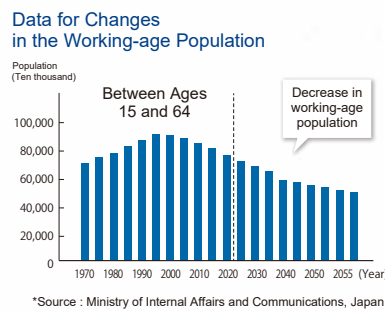
An electrical fire not only endangers the life of building users, it also lowers trust in developers, construction companies and fire source product suppliers. About 70% of the cause of electrical fires is poor handling and lack of maintenance. More specifically, screw looseness can be identified as the cause of these fires. Period maintenance and inspection of screws is required. Even with periodic maintenance, it is difficult to completely prevent an accident.

The ZERO SCREW terminal block maintains a highly reliable connection for a long time with its unique, screw-less design that reduces fire risk caused by loose screws in electrical equipment to zero.

## 2 Solves the Shortage of Technicians

Simply Insert the Contact to Connect

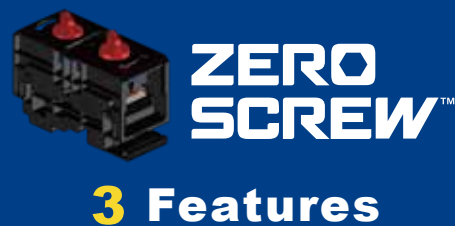
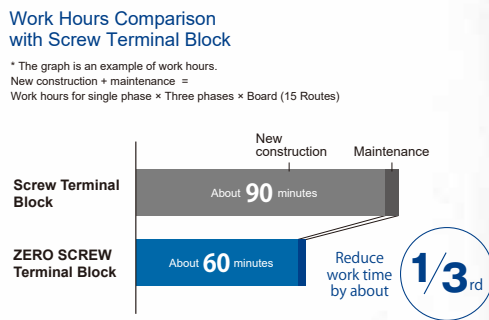
Screw type terminal blocks cause variations in "screw tightening" and "torque management" by different workers. ZERO SCREW terminal block with single insertion achieves stable work quality regardless of workers' ability. Ideal for future staffing where there will be fewer skilled workers.



## 3 Shortens Construction Time Drastically

Reduce All Process Related to Screws

With screw type terminal blocks, screwing and unscrewing is required for new construction and torque checking is needed during maintenance. Since the ZERO SCREW Terminal Block has no screws, it can reduce the number of work hours by more than one-third compared to a conventional screw terminal block for a dramatic reduction in construction time.



**Easy operation**

**Simply insert to Connect.  
No screws needed.**

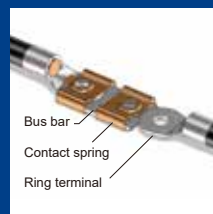
Quick and secure single action positive lock design. Unlike a conventional screw terminal block, an operator with less experience can easily maintain stable work quality. Visual confirmation of the insertion status from the top after mating ensures safety.



**Long-term stable connection**

**Highly Reliable Connection with Unique Contact Spring Design**

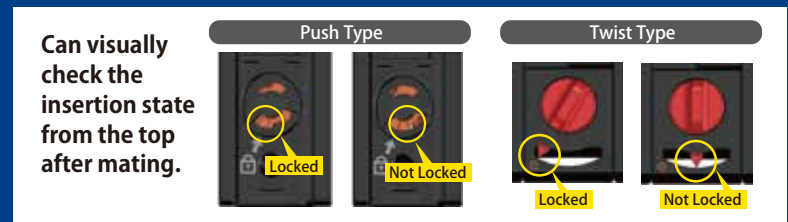
Unique design presses the ring terminal directly against the busbar for connection, improving contact reliability and maintaining a stable, long-term connection.



**Positive lock**

**Fully Locked State is the Standard Position**

EF2 is always in a locked state when connected. The safety design prevents the ring terminal from coming out unless the bottom is pressed and the ring terminal is removed. This design also prevents workers from forgetting to lock the connector and the ring terminal from falling out.



# Mouser Electronics

Authorized Distributor

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