

# Multipole connectors





# MIXO 300 A MODULES FOR HIGH-CURRENT APPLICATIONS

# MIXO 300 A modules and crimp contacts

 Line modules:
 CX 01 30 (16..70 mm²) and CX 01B 30 (95, 120 mm²)

 PE modules:
 CX 01 30PE (16..70 mm²) and CX 01B 30PE (95, 120 mm²)

 Crimp contacts:
 C30 series of sizes 16, 25, 35, 50, 70, 95 and 120



MIXO CX 01 30 and CX 01B 30, line modules

1 P: 300 A 1000 V 8 kV 3 - 1300  $V_{DC}$ 

MIXO CX 01 30PE and CX 01B 30PE, PE modules

1 P: 300 A



# **TECHNICAL FEATURES**

The requirements to increase **up to 300 A** the current loading of the available MIXO 200 A CX 01 Y connector modules, with the necessity to fit in the same size the required **larger wires** (95 mm<sup>2</sup> and 120 mm<sup>2</sup>), while at the same time keeping the possibility to use such module with the range of sizes of the MIXO 200 A modules, led to a <u>complete</u> <u>overhaul of the solution</u>.

This resulted in the necessity of splitting the wider wire range into two separate sizes of module, due to the need to differentiate the rear contact holding part to accommodate different wire sheathing diameters and to retain contacts with remarkably different barrel size, and required the **development of a new wider series of crimp contacts**, with the need for **more powerful crimp tools**.

Given the different size of the dedicated new C30 series crimp contacts, which also include protected male contacts, i.e., male contacts with insulating tip that provide finger proof safety to said male connector modules, two sizes of module are foreseen for the *line version* and two sizes for the *PE version*. The new MIXO 2-slotsized connector modules for the new C30 series crimp contacts are available in two sizes:

- Q 01 (regular), for use with new series C30 crimp contacts of sizes 16, 25, 35, 50 and 70;
- Q 01B (large), for use with new series C30 crimp contacts of larger sizes 95 and 120.

The two sizes thus cover different ranges of wiring, and <u>each one is</u> <u>available in line version (insulated) and in PE version</u> (where a reliable bonding contact between the power PE crimp contact and the metal MIXO frame is made possible), for a total of 4 different male modules and 4 different female modules, for use with the **new series C30 crimp contacts**.

Together, they widen the range of cross-sectional areas that the previously available MIXO 200 A (line modules CX 01 Y and PE modules CX 01 YPE) enabled, to include also the new sizes 95 mm<sup>2</sup> and 120 mm<sup>2</sup>, AWG 3/0 and 4/0, thus <u>allowing an increase of current-carrying capacity of these modules up to 300 A in the same size.</u>

- Q The design of the modules allows use up to and including 1300 V<sub>DC</sub> according to the latest edition of EN IEC 60664-1:2020.
- Q Series C30 crimp contacts are designed to use the more popular hexagonal DIN 48084 press crimping (in use for DIN 46235 cable endsleeves). Two dedicated crimping tools (manual hydraulic and battery operated hydraulic) are provided and described on pages 54-55.



- Watch our technical clip
- Q Like the previously available MIXO 200 A ones, the new 300 A modules are made in two parts: a modular connector insulating body and a contact holder retained in the body by red-coloured locking tabs (proprietary technology); however, the new modules are provided fully assembled, as contact holding function is provided by elastic tongues in the contact holder that allow the insertion of the crimped connection without need for removing the contact holder.
- Q The contact holders of the "01" and the "01B" differ in that the shroud necessary for maintaining creepage distances, thus embracing the wire sheathing and the crimp barrel used by the crimped connection needs to be larger in the "01B" size (95 mm<sup>2</sup>.120 mm<sup>2</sup>, AWG 3/0.4/0) than in the "01" size (16 mm<sup>2</sup>..70 mm<sup>2</sup>, AWG 6..2/0) wire range. To avoid mistakes, the two module sizes are duly marked with the relevant size range of corresponding C30 crimp contacts.
- Q The CX 01 30M and CX 01B 30M male inserts' mating face is provided with suitable insulating prongs, so that, <u>when used in combination with the</u> <u>finger proof crimp male contacts series C30</u> (C30MA 16 P through C30MA 120 P, see page 43), they result in finger proof male connectors. This feature is new compared to the previously available MIXO 200 A modules and crimp contacts series CY.
- NOTE This additional safety feature is particularly useful to avoid electric shock whenever hazardous voltage may be still present for a certain period (e.g., due to discharge of capacitors) on the male side of the connection after disconnection.
- Q Current-temperature derating diagrams (current-carrying capacity curves) for CX 01 30 module are like those of the equivalent CX 01 Y 200 A crimp versions (same wiring range). For CX 01B 30 module, covering the larger wire sizes 95 mm<sup>2</sup> and 120 mm<sup>2</sup>, AWG 3/0 and 4/0, new diagrams are under development to cover the extended range up to 300 A.
- Q Conductors stripping length: see series C30 crimp contacts pages.
- Q Silver plated contacts.
- Q Max diameter of wire sheathings:
  - ø 18,5 mm for size 01 modules (wire size 70 mm<sup>2</sup> / AWG 2/0)
  - ø 22,4 mm for size 01B modules (wire size 120 mm² / AWG 4/0)

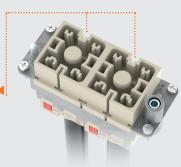
### CERTIFICATIONS

- cURus, CQC, DNV, BV, EAC pending.
- RoHS:
  - modular inserts: compliant;
  - series C30 crimp contacts: compliant with exemption 6(c).



2 different contact holder sizes for 16..70 mm<sup>2</sup> and 95, 120 mm<sup>2</sup> cable range of sections

Male line version with internal prongs and finger proof male contact to guarantee maximum safety against accidental contacts



Version for bonding to MIXO frame (both sides)

Integrated PE plate on PE

the PE contact between PE plate and MIXO frame.

frames for modular units\*

modular units, crimp connections

# CX 01 30F/30M - CX 01B 30F/30M 1 pole 300 A - 1000 V - 1300 V<sub>DC</sub>

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports

modular units, crimp connections 16...70 mm<sup>2</sup>



**# FROM JUNE 2023** 

\* enclosures: housings or high construction hoods

### refer to CN.19 pages

description

### part No.

page:

317

part No.

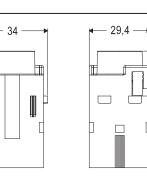
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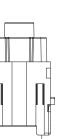
95, 120 mm<sup>2</sup>

without contacts (to be ordered separately) female insert for female contacts (16...70 mm<sup>2</sup>) male insert for male contacts (16...70 mm<sup>2</sup>) without contacts (to be ordered separately) female insert for female contacts (95, 120 mm<sup>2</sup>) male insert for female contacts (95, 120 mm<sup>2</sup>)

- characteristics according to EN 61984: 300 A 1000 V 8 kV 3 - 1300 V<sub>DC</sub> 300 A 920/1600 V 8 kV 2
- cURus (ECBT2/8 and PVVA2/8) pending - CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance:  $\geq$  10 G $\Omega$
- ambient temperature limit: -40 °C ... +125 °C - made of self-extinguishing thermoplastic
- resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,2 mΩ
- Max diameter of wire sheathings:
- ø 18,5 mm for size 01 modules (wire size 70 mm<sup>2</sup> / AWG 2/0)
- ø 22,4 mm for size 01B modules (wire size 120 mm<sup>2</sup> / AWG 4/0)
- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue.

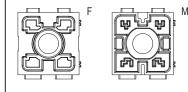
CX 01 30F CX 01 30M







contacts side (front view) side with reference arrow **A** 

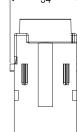


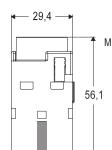


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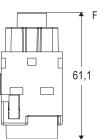
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CX 01B 30F

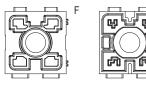


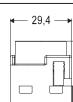




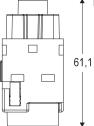


contacts side (front view) side with reference arrow  $\blacktriangle$ 









Μ

dimensions shown in mm are not binding and may be changed without notice

### 300 A silver plated crimp contacts



silver plated

description			part No.
300 A female c			
16 mm <sup>2</sup>	AWG 6		C30FA 16
25 mm <sup>2</sup>	AWG 4		<u>C30FA 25</u>
35 mm <sup>2</sup>	AWG 2		<u>C30FA 35</u>
50 mm <sup>2</sup>	AWG 1		C30FA 50
70 mm <sup>2</sup>	AWG 2/0		C30FA 70
95 mm <sup>2</sup>	AWG 3/0		C30FA 95
120 mm <sup>2</sup>	AWG 4/0		C30FA 120
000 4			
	er proof crimp cor	itacts	
16 mm <sup>2</sup>	AWG 6		<u>C30MA 16 P</u>
25 mm <sup>2</sup>	AWG 4		<u>C30MA 25 P</u>
35 mm²	AWG 2		<u>C30MA 35 P</u>
50 mm <sup>2</sup>	AWG 1		<u>C30MA 50 P</u>
70 mm <sup>2</sup>	AWG 2/0		<u>C30MA 70 P</u>
95 mm <sup>2</sup>	AWG 3/0		<u>C30MA 95 P</u>
120 mm <sup>2</sup>	AWG 4/0		<u>C30MA 120 P</u>

- it is recommended to crimp the contacts with crimping tools homologated by ILME (please see the crimping tool section for 300 A contacts, C30FA, C30MA series at pages 54-55).

<u>C30MA 9</u> C30MA 1					
	ØA				
	ØE				
C30FA a conductor section (mm <sup>2</sup> )	md C30MA conductor slot ø A (mm)		tacts C (mm)	D (mm)	conductor stripping length (mm)
16 25 35 50	5,5 7 8,2 10	18 18 18 18 18 18 18	42,7 42,7 43,7 49,2 49,2	39,1 39,1 40,1 45,6 45,6	19 19 20 22,5 22,5 22,5

# CX 01 30PEF/30PEM - CX 01B 30PEF/30PEM 1 pole 300 A

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports

📕 page:



modular units, crimp connections PE module for earth termination, 16...70 mm<sup>2</sup>



# H FROM JUNE 2023

modular units, crimp connections PE module for earth termination, 95, 120 mm<sup>2</sup>

EXTRACT 3/9



# H FROM JUNE 2023

# description

refer to CN.19 pages

part No.

h

h

F

part No.

without contacts (to be ordered separately) PE female insert for female contacts (16...70 mm<sup>2</sup>) PE male insert for male contacts (16...70 mm<sup>2</sup>) without contacts (to be ordered separately) PE female insert for female contacts (95, 120 mm<sup>2</sup>) PE male insert for male contacts (95, 120 mm<sup>2</sup>)

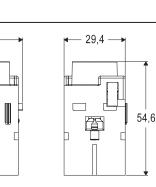
\* enclosures: housings or high construction hoods

- cURus (ECBT2/8 and PVVA2/8) pending

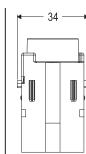
- CQC, DNV, BV, EAC pending
- ambient temperature limit: -40 °C ... +125 °C - made of self-extinguishing thermoplastic
- resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance:  $\leq 0,2 \text{ m}\Omega$
- Max diameter of wire sheathings:
  ø 18,5 mm for size 01 modules (wire size
- 70 mm<sup>2</sup> / AWG 2/0) - ø 22,4 mm for size 01B modules (wire size
- ø 22,4 mm for size 01B modules (wire size 120 mm<sup>2</sup> / AWG 4/0)



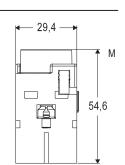
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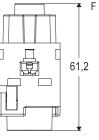
### CX 01B 30PEF CX 01B 30PEM



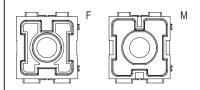
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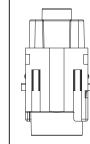


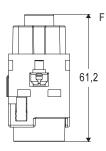




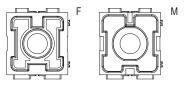
contacts side (front view) side with reference arrow ▲







contacts side (front view) side with reference arrow ▲





### 300 A silver plated crimp contacts



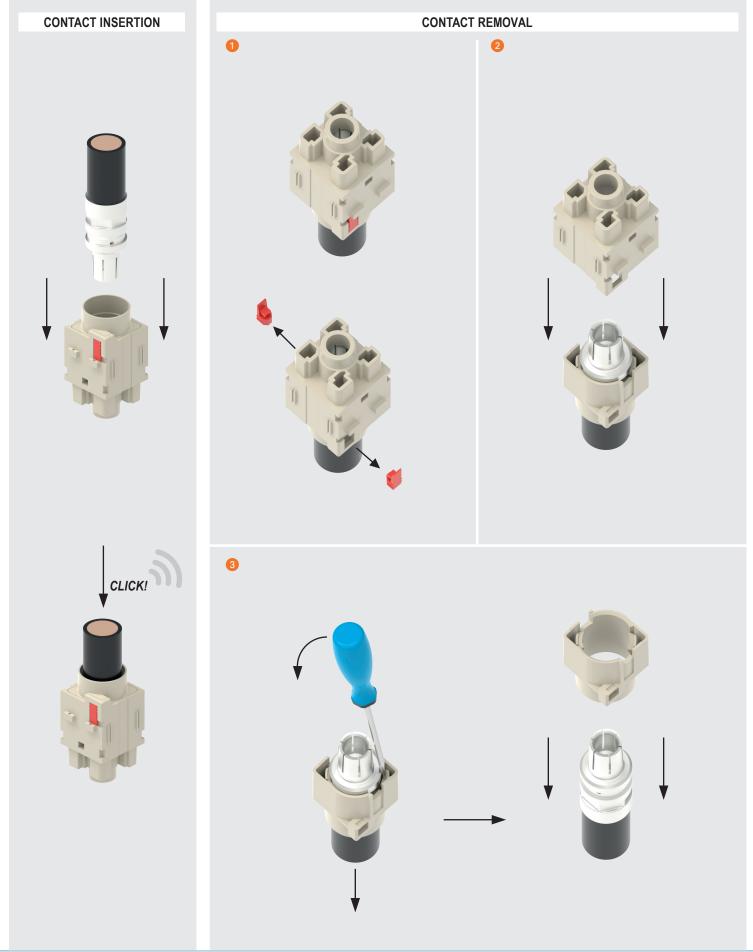
silver plated

description		part No.
300 A female o 16 mm <sup>2</sup> 25 mm <sup>2</sup> 35 mm <sup>2</sup> 50 mm <sup>2</sup> 70 mm <sup>2</sup> 95 mm <sup>2</sup> 120 mm <sup>2</sup>	rimp contacts AWG 6 AWG 4 AWG 2 AWG 1 AWG 2/0 AWG 3/0 AWG 4/0	C30FA 16 C30FA 25 C30FA 35 C30FA 50 C30FA 70 C30FA 95 C30FA 120
300 A male cri	mp contacts	
16 mm <sup>2</sup> 25 mm <sup>2</sup>	AWG 6 AWG 4	<u>C30MA 16</u> C30MA 25
35 mm <sup>2</sup>	AWG 4 AWG 2	<u>C30MA 25</u> <u>C30MA 35</u>
50 mm <sup>2</sup> 70 mm <sup>2</sup>	AWG 1 AWG 2/0	<u>C30MA 50</u> C30MA 70
95 mm <sup>2</sup> 120 mm <sup>2</sup>	AWG 3/0 AWG 4/0	<u>C30MA 95</u> <u>C30MA 120</u>

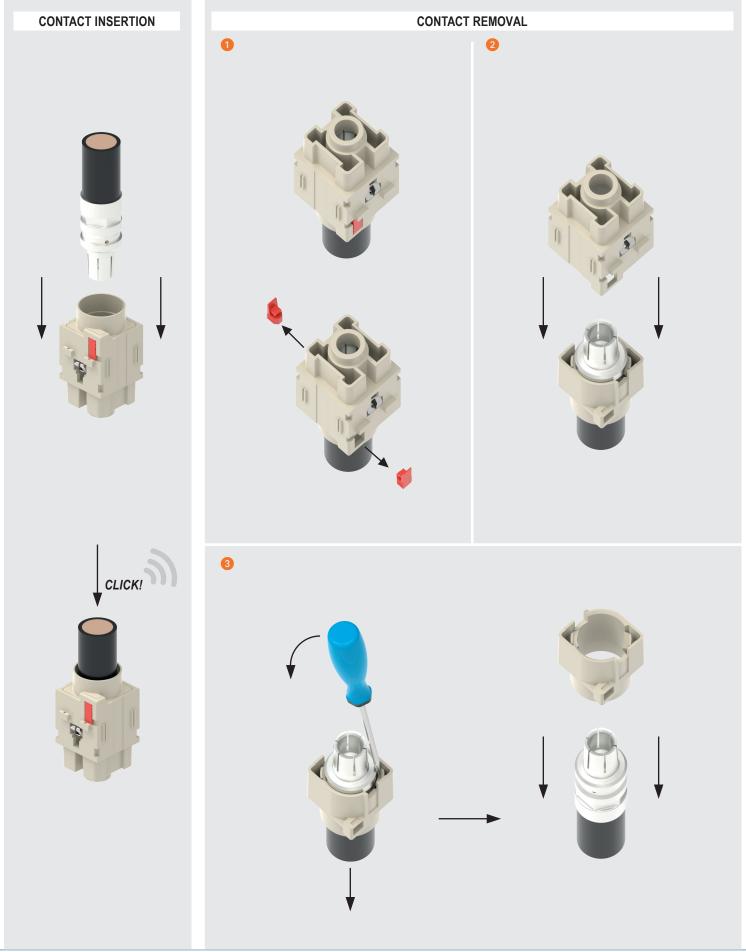
 - it is recommended to crimp the contacts with crimping tools homologated by ILME (please see the crimping tool section for 300 A contacts, C30FA, C30MA series at pages 54-55).

	—— ØA				
	ØB	C			
	——— Ø9,	5			
	ØB	D			
	—— ØA				
	nd C30MA	contac	:ts		
conductor section	conductor slot ø A	øΒ	С	D	conductor stripping
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	length (mm)
16	5,5	18	41,2	39,1	19
25 35	7 8,2	18 18	41,2 42,2	39,1 40,1	19 20
50	0,2 10	18	42,2 47,7	40,1 45,6	20
70	11,5	18	47,7	45,6	22,5
95 120	13,5	21 21	47,7	45,6	22,5 22,5
120	15,5	21	47,7	45,6	22,3

CX 01/01B 30 - MIXO 300 A MODULE

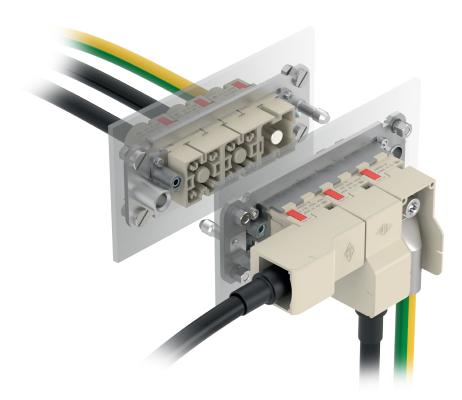


# CX 01/01B 30PE - MIXO 300 A PE MODULE



# MIXO 300 A modules

For <u>90°-angled</u> screw terminal connection <u>Line modules:</u> **CX 01 30A** (16..120 mm<sup>2</sup>) <u>PE modules:</u> **CX 01 30PEA** (16..120 mm<sup>2</sup>)



# MIXO CX 01 30 A line modules

1 P: 300 A 1000 V 8 kV 3 - 1300  $V_{DC}$ 

# MIXO CX 01 30PEA, PE modules

1 P: 300 A



# **TECHNICAL FEATURES**

High-power modules in the 70 A – 300 A current range relate to conductors with large wire-cross-section, even up to 120 mm<sup>2</sup>. Such wires are often difficult to handle, having reduced bending radius and requiring an adequate installation room, often not available.

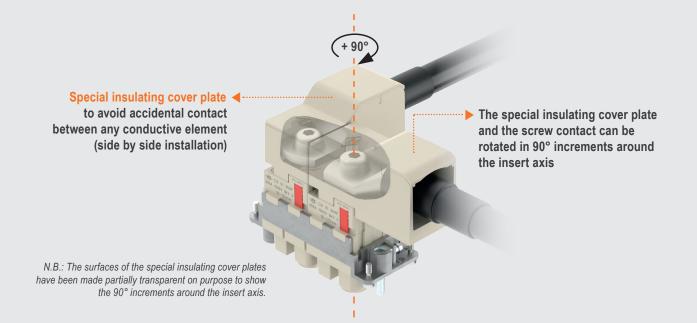
The new **MIXO CX 01 30A** line module and **CX 01 30PEA** PE module are the solution introduced by ILME to widen the potential of the MIXO high-current series, modules with the same compatible electrical rating and mating interface of the 300 A crimp version described in the previous pages but designed to **minimize its space installation requirements**.

- Q The male and female contacts for the angled 300 A module allow the connection of DIN 46235 pre-insulated crimp cable lugs (using M8 TORX® T45 screw), available on the market in the dimension for wire cross-sectional areas of 10, 16, 25, 35, 50, 70, 95 and 120 mm<sup>2</sup>.
- Q To keep the proper electrical insulation, ILME designed a special insulating cover plate, avoiding accidental contact between cable lugs of adjacent modules and saving the nominal voltage rating of 1000 V and 1300 V<sub>DC</sub> planned for the 300 A modules. This cover plate has been furtherly improved compared with the previously available 200 A 90°-angled module CX 01 YAF/ M, in that it now includes a further snap-in closing cap, that prevent touch with live parts inside a cabinet previously demanded to the assembler of the distribution panel.

- Q The 300 A angled module can be used inside the ILME bulkhead mounting housings as a natural extension of a busbar connection or for powering control cabinets, HVAC systems and batteries for energy storage backup applications.
- Q Line male modules CX 01 30AM and CX 01B 30AM come by default with finger proof contact (PE modules do not require any finger proof safety).
- Current-temperature derating diagrams (current-carrying capacity curves) for size CX 01 30A line module and CX 01 30PEA PE module are like those of the equivalent CX 01 YA and CX 01 YPEA 200 A versions (same wiring range). For size CX 01B 30A and CX 01B PEA modules, covering the larger wire sizes 95 mm<sup>2</sup> and 120 mm<sup>2</sup> (AWG 3/0 and 4/0), new diagrams are under development to cover the extended range up to 300 A.
- Q Conductors stripping length: 9..11 mm.
- Q Silver plated contacts.
- Q Tightening torque for TORX® T45 socket bolt for fixing the cable lug: 10 Nm.

### CERTIFICATIONS

- cURus, CQC, DNV, BV, EAC pending.
- C E and UK markings.
- RoHS: compliant with exemption 6(c).



# CX 01 30AF/30AM 1 pole 300 A - 1000 V - 1300 V<sub>DC</sub>

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports

modular units, screw terminal connection

EXTRACT 3/9



# 🛗 FROM JUNE 2023

part No.

description

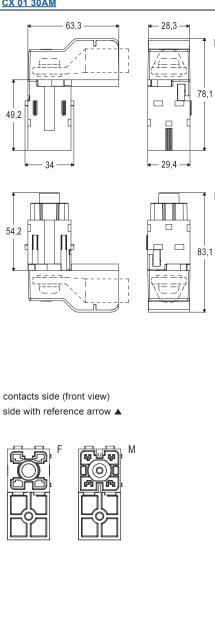
refer to CN.19 pages

screw terminal connection - 90° angled female insert with female contacts male insert with male contacts

CX 01 30AF CX 01 30AM

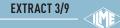
### - characteristics according to EN 61984: 300 A 1000 V 8 kV 3 - 1300 V<sub>DC</sub>

- cURus (ECBT2/8 and PVVA2/8) pending - CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C - made of self-extinguishing thermoplastic
- resin UL 94V-0 - mechanical life: ≥ 500 cycles
- mechanical life:  $\ge 500$  cycles - contact resistance:  $\le 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue.

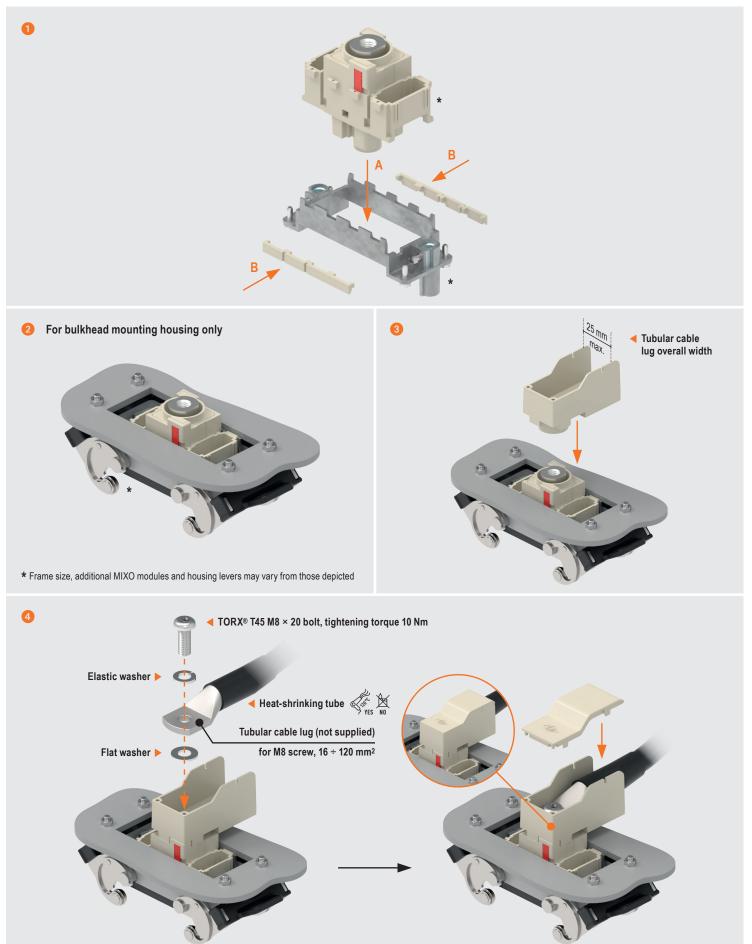


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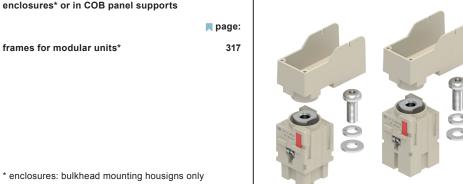
### CX 01 30A - MIXO 300 A 90° ANGLED MODULE



### CX 01 30PEAF/30PEAM 1 pole 300 A

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports

modular units, screw PE terminal connection



### refer to CN.19 pages

### description

screw terminal connection - 90° angled PE female insert with female contacts PE male insert with male contacts

- cURus (ECBT2/8 and PVVA2/8) pending - CQC, DNV, BV, EAC pending

- ambient temperature limit: -40 °C ... +125 °C - made of self-extinguishing thermoplastic
- resin UL 94V-0 - mechanical life: ≥ 500 cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$

CX 01 30PEAF CX 01 30PEAM 63,3 F----Т ĽΠ 

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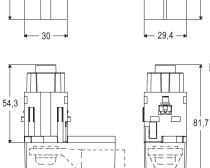
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H FROM JUNE 2023

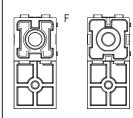
part No.

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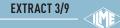
contacts side (front view) side with reference arrow  $\blacktriangle$ 



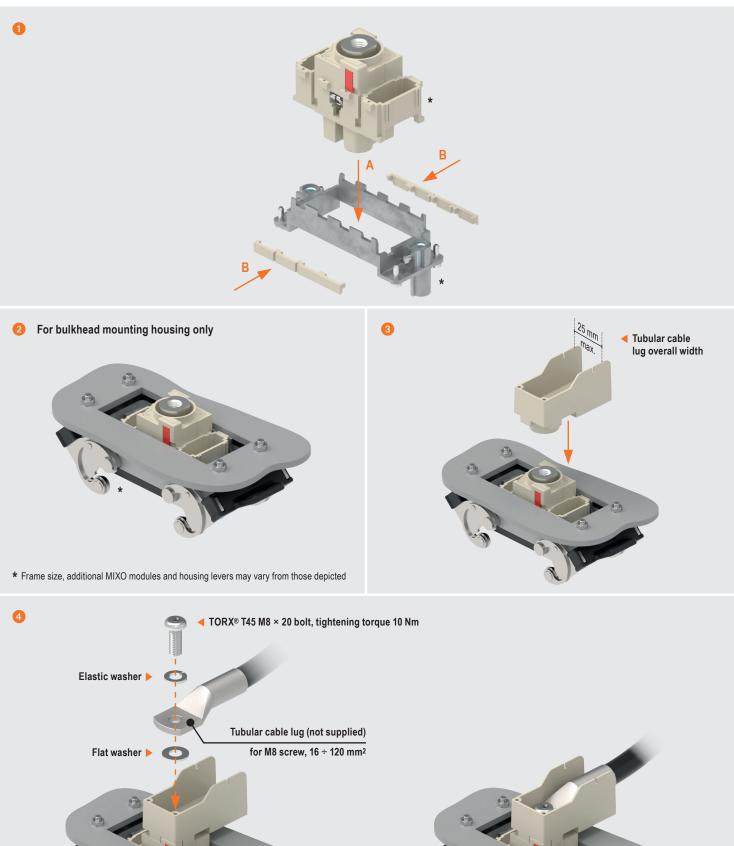
# dimensions shown in mm are not binding and may be changed without notice



EXTRACT 3/9



# CX 01 30PEA - MIXO 300 A 90° ANGLED PE MODULE



		EXTRACT 3/9			
Tools and accessories for crimp contacts					
For contacts of inserts series (as applicable)page:CX 01 30F/MCX 01 30F/MCX 01 30PEF/MCX 01 30PEF/M44CX 01B 30PEF/M44	crimping tool manual	crimping dies			
description	part No.	part No.			
manual hydraulic crimping tool for <b>300 A</b> C30 series contacts basic tool mod. CEMBRE HT 131-C excluding crimping dies crimping dies according to DIN 46235 for C30 contacts with 16 mm <sup>2</sup> (AWG 6) wire cross-section for C30 contacts with 25 mm <sup>2</sup> (AWG 4) wire cross-section for C30 contacts with 35 mm <sup>2</sup> (AWG 2) wire cross-section for C30 contacts with 50 mm <sup>2</sup> (AWG 1) wire cross-section for C30 contacts with 70 mm <sup>2</sup> (AWG 1) wire cross-section for C30 contacts with 95 mm <sup>2</sup> (AWG 3/0) wire cross-section for C30 contacts with 120 mm <sup>2</sup> (AWG 4/0) wire cross-section	1	C13D 16 C C13D 25 C C13D 35 C C13D 50 C C13D 70 C C13D 95 C C13D 120 C			
Tool technical information - Crimping force 135 kN - Rated operating pressure: 700 bar - Dimensions: 473 × 144 mm - Weight: 5,5 kg - Operating temperature: -15 to +50 °C	C       The tool is supplied in a case without the crimping dies.         Image: Comparison of the crimping dies.       Image: Comparison of the crimping dies.				

part No.	Cembre part No.	pressing width	punching	contacts wire cr		oss-section	
		mm	identification		mm <sup>2</sup>	AWG	
C13D 16 C	MK8-C	10	MK 8	C30FA 16, C30MA 16, C30MA 16 P	16	6	
C13D 25 C	MK10-C	10	MK 10	C30FA 25, C30MA 25, C30MA 25 P	25	4	
C13D 35 C	MK12-C	10	MK 12	C30FA 35, C30MA 35, C30MA 35 P	35	2	
C13D 50 C	MK14-C	13	MK 14	C30FA 50, C30MA 50, C30MA 50 P	50	1	
C13D 70 C	MK16-C	13	MK 16	C30FA 70, C30MA 70, C30MA 70 P	70	2/0	
C13D 95 C	MK18-C	14	MK 18	C30FA 95, C30MA 95, C30MA 95 P	95	3/0	
C13D 120 C	MK20-C	14	MK 20	C30FA 120, C30MA 120, C30MA 120 P	120	4/0	

EXTRACT 3/9

Tools and accessories for crimp contacts				
For contacts of inserts series (as applicable) pag	crimping tool battery operated hydraulic	crimping dies		
CX 01B 30F/M 2 CX 01 30PEF/M 2				
description	part No.	part No.		
battery operated hydraulic crimping tool for <b>300 A</b> C30 series contacts basic tool mod. CEMBRE B1350-C battery charger - for EU - for UK - for AUS - for US/CAN excluding crimping dies	C13PZ EL EU C13PZ EL UK C13PZ EL AU C13PZ EL US			
crimping dies according to DIN 46235 for C30 contacts with 16 mm <sup>2</sup> (AWG 6) wire cross-sect for C30 contacts with 25 mm <sup>2</sup> (AWG 4) wire cross-sect for C30 contacts with 35 mm <sup>2</sup> (AWG 2) wire cross-sect for C30 contacts with 50 mm <sup>2</sup> (AWG 1) wire cross-sect for C30 contacts with 50 mm <sup>2</sup> (AWG 2/0) wire cross-sec for C30 contacts with 95 mm <sup>2</sup> (AWG 3/0) wire cross-sec for C30 contacts with 120 mm <sup>2</sup> (AWG 4/0) wire cross-sec	ion ion ion ction ction	C13D 16 C C13D 25 C C13D 35 C C13D 50 C C13D 70 C C13D 95 C C13D 120 C		
Tool technical information - Crimping force 132 kN - Minimuim crimping force 152,2 kN - Minimuim operating pressure 692 bar - Dimensions: 338 × 344 × 83 mm - Weight (with battery): 6,5 kg - Operating temperature: -15 to +50 °C	Q The tool is supplied in a case without the crimping dies.			
Rechargeable battery - Type: CB1852L (Li-Ion) 18V, 5 Ah, 93.6 Wh - Weight: 0,66 kg Battery charger				

- Battery charger Input: 220-240 V / 50-60 Hz (EU, UK, AU) Input: 115 V / 60 Hz (US)

part No.	Cembre part No.	pressing width	punching	contacts	wire cross	wire cross-section	
		mm	identification		mm <sup>2</sup>	AWG	
C13D 16 C	MK8-C	10	MK 8	C30FA 16, C30MA 16, C30MA 16 P	16	6	
C13D 25 C	MK10-C	10	MK 10	C30FA 25, C30MA 25, C30MA 25 P	25	4	
C13D 35 C	MK12-C	10	MK 12	C30FA 35, C30MA 35, C30MA 35 P	35	2	
C13D 50 C	MK14-C	13	MK 14	C30FA 50, C30MA 50, C30MA 50 P	50	1	
C13D 70 C	MK16-C	13	MK 16	C30FA 70, C30MA 70, C30MA 70 P	70	2/0	
C13D 95 C	MK18-C	14	MK 18	C30FA 95, C30MA 95, C30MA 95 P	95	3/0	
C13D 120 C	MK20-C	14	MK 20	C30FA 120, C30MA 120, C30MA 120 P	120	4/0	







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