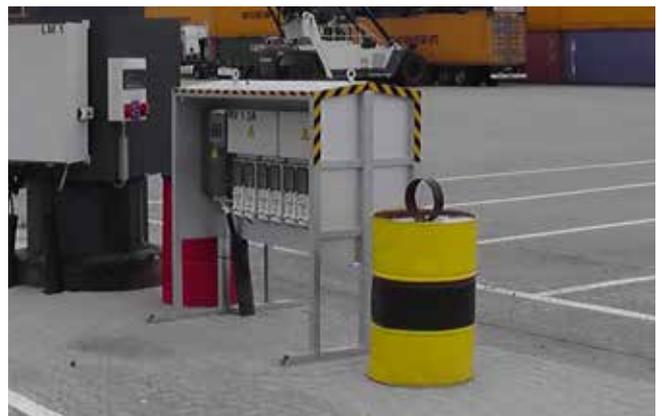
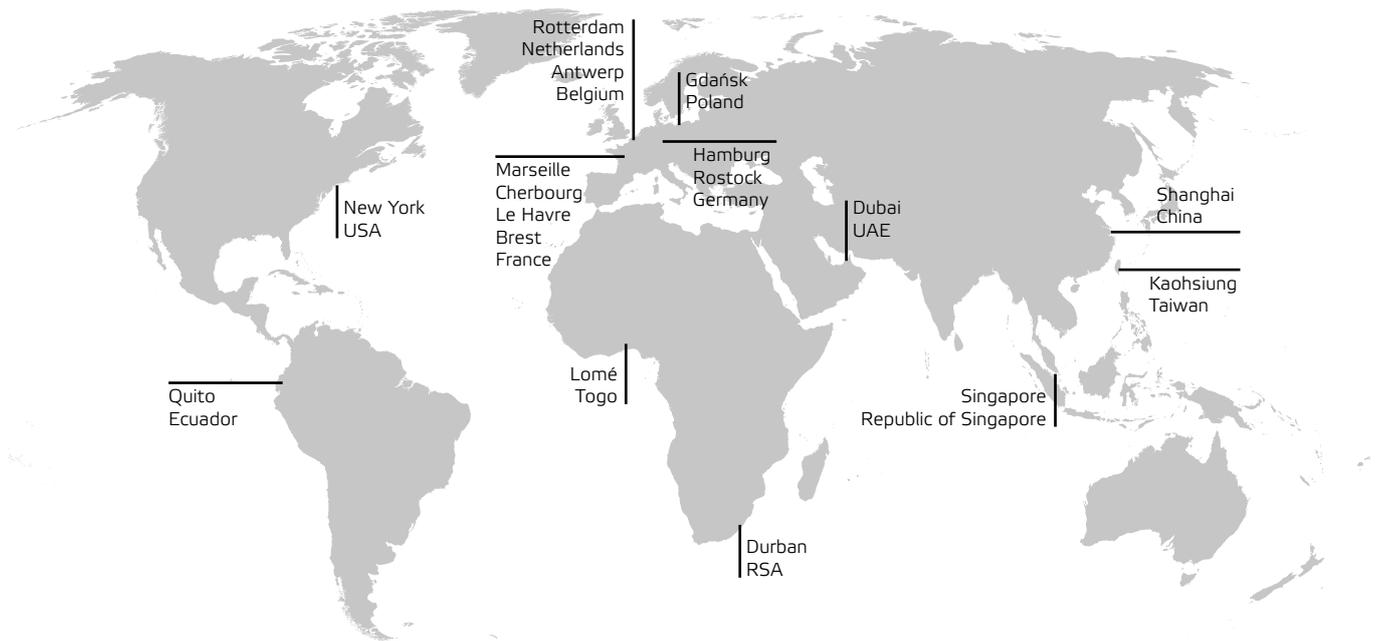


# Reefer Container Plugs and Sockets





Bals Elektrotechnik is operating a fully equipped test laboratory. Experienced engineers using the VDE certified in-house test facilities confirm product parameters and features beyond IEC standard requirements. On customer request Bals simulates specific temperature

or humidity conditions, mechanical impact, electrodynamic circumstances and other worst case product application scenarios. The ongoing approach is to match highest quality standards, and make best products even better.



### Bals Elektrotechnik reefer container devices 32A 4p 3h 380-440V IP67/IP69 are

- approved and certified by VDE, DNV GL
- validated according to IEC standards, CE and RoHS material restrictions
- suitable for nominal operating temperature -25° up to +50°C (environmental condition)
- engineered and Made in Germany

### The TLQ series plugs & connectors

- Screwless connection technology patented by Bals
- Spring-clamp technology
- Safe, more reliable and maintenance-free
- Terminals delivered in open position
- Repeatable control of wiring, by fingertip
- All types of copper conductors accepted, solid or stranded, adaptation to all cross sections
- Wiring with or without cable lugs
- Constant contact force over lifetime of installation, adjusting to vibrations and temperature fluctuations
- one piece enclosure, mechanical crash resistance

### Bals Elektrotechnik reefer container devices 32A 4p 3h 380-440V IP67/IP69 are

- main switches optionally equipped with auxiliary contacts for signal or control purpose
- enclosures with optionally signalization multi-pin sockets for signal or control purpose
- enclosures with optionally preventing systems for humidity absorption
- operating window and sockets lid opening direction to the top, preventing moisture and dust ingress during manipulation
- enclosures with optionally no cable gland cut-outs or pre-punches on the top, prevents icing or water accumulation
- socket terminals are equipped with the maintenance free QUICK-CONNECT technology, resistant to temperature changes influence

### DNV GL

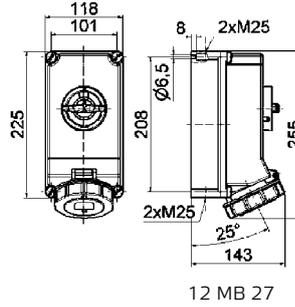
Det Norske Veritas was established in Norway to head technical inspection and evaluation of Norwegian merchant vessels. Germanischer Lloyd was founded in Hamburg in 1867 by a group of 600 ship owners, ship builders and insurers. On December 20, 2012, the two companies announced the merger. DNV GL is one of the major companies in the classification business specialized for marina, container terminals and vessels leusiness area. Products from Bals Elektrotechnik are certified by DNV GL.

### Technical information

- Container operating voltage 400 - 400V, clock face position 3h
- IEC 60309, EN60309, VDE 0623
- Protection degree IP67

#### Interlocked surface socket outlet

- Screwless terminals
- Switched
- With mechanical double interlocking
- Lockable in 0-position
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		<b>16050</b>			
32	4				

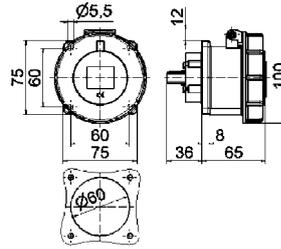
**QUICK CONNECT**

16050

12 MB 27

#### Panel Mounting Socket Outlet TE

- Screwless terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Straight
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		<b>130156</b>			
32	4				

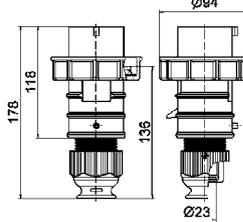
**QUICK CONNECT**

130156

4 MB 71

#### Plug TE-Plus with MULTI-GRIP

- Screwless terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		<b>2148509</b>			
32	4				

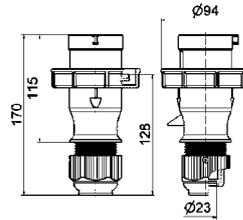
**QUICK CONNECT**  
**MULTI GRIP**

210328

2 MB 111

#### Plug with MULTI-GRIP

- Screwless terminals
- One-piece enclosure
- Nickel plated contacts
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		<b>21232-TLQ</b>			
32	4				

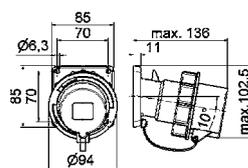
**QUICK CONNECT**  
**MULTI GRIP**

210824

2 MB 128

#### Appliance Inlet with Flange TE

- Screw terminals
- With closure cap
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		<b>27027</b>			
32	4				

27027

5 MB 23

Technical information

- Container operating voltage 400 - 400V, clock face position 3h
- IEC 60309, EN60309, VDE 0623
- Protection degree IP67

**Closure Cap**

- For CEE plugs
- Protection degree IP67



832

Order no.

32A / 3p, 4p

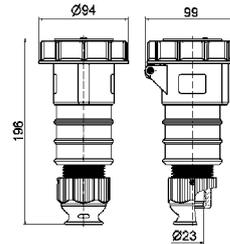
**837**

**Connector TE-Plus with MULTI-GRIP**

- Screwless terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



310426



Ampere	3P+E Poles	380V (50Hz) and 440V (60Hz)	Qty	9 each
		3h		
32	4	<b>310426</b>	10	390

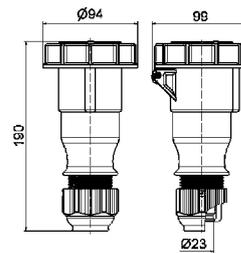
3 MB 72

**Connector with MULTI-GRIP**

- One-piece enclosure
- Nickel plated contacts
- Special gland, simultaneous cable gland and seal
- Protection degree IP67/IP69



310567



Ampere	3P+E Poles	380V (50Hz) and 440V (60Hz)	Qty	9 each
		3h		
32	4	<b>31186-TLQ</b>	10	314

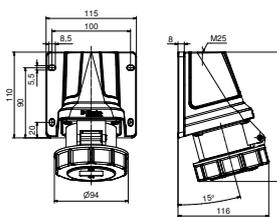
3 MB 80

**Wall mounting socket outlet INNOLINQ 16A/32A IP67/IP69**

- Enclosure dimension: 115x110
- Screwless terminals
- The cable entry is one M25 at top open
- Protection degree IP67/IP69
- Contains no lead



**QUICK CONNECT**  
**KONTEX ULTRA**



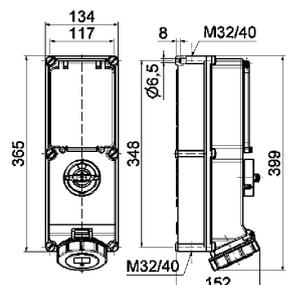
Ampere	3P+E Poles	380V (50Hz) and 440V (60Hz)	Qty	9 each
		3h		
32	4	<b>112019</b>	10	

**Interlocked surface socket outlet with window**

- screwless terminals
- Switched
- With mechanical double interlocking
- Hinged window
- Lockable in 0-position
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Protection degree IP67/IP69



17026



Ampere	3P+E Poles	380V (50Hz) and 440V (60Hz)	Qty	9 each
		3h		
32	4	<b>17026</b>	1	1910

12 MB 26

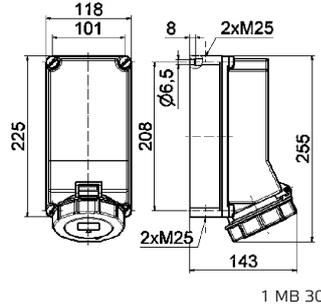
- Container operating voltage 400 - 400V, clock face position 3h
- IEC 60309, EN60309, VDE 0623
- Protection degree IP67

#### Surface socket outlet

- Screwless terminals
- High-temperature-resistant contact carrier
- Nickel plated contacts
- Protection degree IP67/IP69



11556

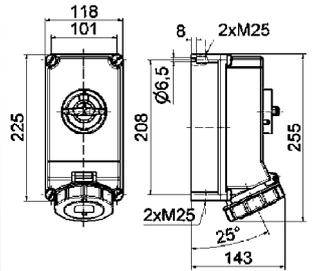


Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		11556			

**QUICK CONNECT**

#### Interlocked surface socket outlet with signalling

- Screwless terminals
- Switched
- With mechanical double interlocking
- Lockable in 0-position
- High-temperature-resistant contact carrier
- Nickel plated contacts
- with indicator light for switch position (off=red, on=green)
- Protection degree IP67/IP69



Amperage	3P+E Poles	380V (50Hz) and 440V (60Hz)	3h	Qty	9 each
		16999			

**QUICK CONNECT**

12 MB 27

#### Variabox extension – switching bar

- Perfect optical integration in the existing system
- User-friendly arrangement in the case of multiple units
- Mechanical double-interlocking
- Can be locked in the 0-position
- Nickel plated contacts
- High-temperature-resistant contact carriers
- Greater flexibility in the Variabox system landscape

- Suitable for harsh environmental conditions
- Versions in all voltages and frequencies from 16A 3-pole to 32A 5-pole
- Protection degrees IP44, IP54 and IP67

Order no. **896459**

#### Components:

1 CEE socket 32A, 400V, 4p, 3h, IP67 nickel plated contacts, with mechanical interlocking, lockable in 0-position

#### Fuse:

1 C-type MCB 32A, 3p  
1 RCCB 40/0.03A, 4p

#### Cable entry at top and bottom:

each with 1x M12, 1x M20, 2x M40

#### Connection option:

2 cables up to 5 x 25 mm<sup>2</sup>

#### VARIABOX-M

260 x 230 mm



Order no. **896462**

#### Components:

2 CEE socket 32A, 400V, 4p, 3h, IP67 nickel plated contacts, with mechanical interlocking, lockable in 0-position

#### Fuse:

2 C-type MCB 32A, 3p  
1 RCCB 63/0.03A, 4p

#### Cable entry at top and bottom:

each with 1x M12, 1x M20, 2x M40

#### Connection option:

2 cables up to 5 x 25 mm<sup>2</sup>

#### VARIABOX-L

390 x 230 mm



Order no. **896437**

#### Components:

3 CEE socket 32A, 400V, 4p, 3h, IP67 nickel plated contacts, with mechanical interlocking, lockable in 0-position

#### Fuse:

3 C-type MCB 32A, 3p

#### Cable entry at top and bottom:

each with 1x M12, 1x M20, 2x M40

#### Connection option:

2 cables up to 5 x 25 mm<sup>2</sup>

#### VARIABOX-XL

520 x 230 mm



Order no. **896463**

#### Components:

4 CEE socket 32A, 400V, 4p, 3h, IP67 nickel plated contacts, with mechanical interlocking, lockable in 0-position

#### Fuse:

4 C-type MCB 32A, 3p  
1 RCCB 63/0.03A, 4p

#### Cable entry at top and bottom:

each with 1x M12, 1x M20, 2x M40

#### Connection option:

2 cables up to 5 x 25 mm<sup>2</sup>

#### VARIABOX-L DUO

390 x 460 mm



Portable multi-gang reefer container distribution board



### Additional product features

- enclosures with optionally preventing systems for humidity absorption
- double side mounting possible
- full customisable and extendable starting from 2-gang
- optionally available with energy management and monitoring features
- socket terminals are equipped with the maintenance free QUICK-CONNECT technology, resistant to temperature changes influence
- individual 63A rated current switches in each socket
- available in customized sizes and voltage ratings



made  
in  
Germany



Simply. Well. Connected.

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Subject to technical modifications and typographical errors