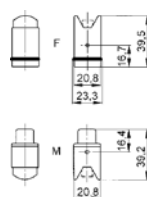




**Info**

- Straight cable entry from the rear



M

F

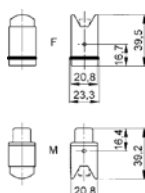


## EPIC® H-A 3



**Info**

- Straight cable entry from the rear



M

F



## EPIC® H-A 4

### ■ Suitable housing:

- EPIC® H-A 3 Housings page 494
- Additional support for selection of inserts and housings, please refer to the Selection Table A10

### ■ Benefits

#### EPIC® H-A 3

- H-A Inserts with screw termination up to 2.5 mm² wire cross section
- H-A 3 are used wherever space is at a minimum. Screw termination with straight cable entrance from the rear

#### EPIC® H-A 4

- H-A Inserts with screw termination up to 2.5 mm² wire cross section
- Small H-A 4 are used wherever space is at a minimum. Screw termination with straight cable insertion from the rear

### ■ Application range

- Machine and apparatus construction
- Control engineering

### ■ Suitable tools

- MULTICRIMP 6 crimping pliers see page 919
- Kraftform® adjustable torque screwdriver/ Kraftform Kompakt® Set see page 982

### ■ Technical data

#### Rated voltage in V

IEC: 400 V  
UL: 600 V  
CSA: 600 V

#### Rated impulse Voltage

4 kV

#### Rated current in A

IEC: 23 A  
UL: 10 A  
CSA: 10 A

#### Pollution degree

3

#### Contact resistance

1.5 - 4 mOhm

#### Contacts

Copper alloy, hard silver plated

#### Number of contacts

**EPIC® H-A 3**

3 + PE

**EPIC® H-A 4**

4 + PE

#### Termination methods

Screw termination: 0.5 - 2.5 mm² (2.5 mm² with conductor end sleeves depends on the crimping profile)

#### Cycle of mechanical operation

100

#### Range of temperature

-40°C - +100°C, temporary up to +125°C

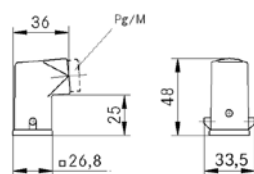
#### VDE tested

VDE-REG.-No. 437

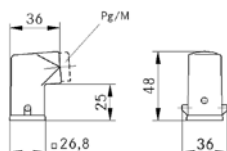


| Part number                    | Part     | Version | Contacts | Pieces / PU |
|--------------------------------|----------|---------|----------|-------------|
| <b>H-A 3 screw termination</b> |          |         |          |             |
| 10420000                       | H-A 3 SS | male    | 1 - 3    | 10          |
| 10421000                       | H-A 3 BS | female  | 1 - 3    | 10          |
| <b>H-A 4 screw termination</b> |          |         |          |             |
| 10431000                       | H-A 4 SS | male    | 1 - 4    | 10          |
| 10432000                       | H-A 4 BS | female  | 1 - 4    | 10          |

## EPIC® H-A 3 Hood Metal side entry



## EPIC® H-A 3 Hood Thermoplastic side entry



### Benefits

- Housing in plastic or metal version. For power supply on smallest possible space

### Application range

- Machine and apparatus construction
- Control engineering
- Electronic laboratory

### Product features

- Hood
- Bolts for 1 lever
- Side cable entry
- Versions with / without cable gland

### Suitable inserts

- EPIC® H-A 3 page 447
- EPIC® H-Q 5 page 453
- EPIC® STA 6 Screw termination page 450
- EPIC® H-D 7 machined page 454
- EPIC® H-D 7 stamped page 454
- EPIC® H-A 4 page 447
- EPIC® H-D 8 page 453
- EPIC® STA 6 Solder termination page 450
- Additional support for selection of inserts and housings, please refer to the Selection Table A10

### Technical data



**Material**  
**EPIC® H-A 3 Hood Metal side entry**

Housing: zinc die-casting powder coated, grey  
Lever: steel, zinc-plated

**EPIC® H-A 3 Hood Thermoplastic side entry**

Housing: thermoplastic grey, black  
Lever: steel, zinc-plated



**Degree of protection**

IP 65 (latched)



**Range of temperature**

-40°C - +100°C, temporary up to +125°C

| Part number                                 | Part         | M  | PG | Material         | Colour | Verschraubung | Cable clamping range | Dimension incl. cable gland | Pieces / PU |
|---------------------------------------------|--------------|----|----|------------------|--------|---------------|----------------------|-----------------------------|-------------|
| <b>H-A housing: Hood (side cable entry)</b> |              |    |    |                  |        |               |                      |                             |             |
| 10512300                                    | H-A 3 MTs    |    | 11 | Zinc die-casting | grey   |               |                      |                             | 10          |
| 10427500                                    | H-A 3 MTs    |    | 11 | Zinc die-casting | grey   | yes           | 6.5 - 12.0           | 43.0                        | 10          |
| 19512300                                    | H-A 3 Ts M20 | 20 |    | Zinc die-casting | grey   |               |                      |                             | 10          |
| 19427500                                    | H-A 3 Ts M20 | 20 |    | Zinc die-casting | grey   | yes           | 3.0 - 13.5           | 43.0                        | 10          |
| 10427300                                    | H-A 3 Ts     |    | 11 | Thermoplastic    | black  |               |                      |                             | 10          |
| 10427000                                    | H-A 3 Ts     |    | 11 | Thermoplastic    | grey   |               |                      |                             | 10          |
| 10620600                                    | H-A 3 Ts     |    | 11 | Thermoplastic    | black  | yes           | 6.5 - 12.0           | 48.0                        | 10          |
| 10427100                                    | H-A 3 Ts     |    | 11 | Thermoplastic    | grey   | yes           | 6.5 - 12.0           | 48.0                        | 10          |
| 19427300                                    | H-A 3 Ts M20 | 20 |    | Thermoplastic    | black  |               |                      |                             | 10          |
| 19427000                                    | H-A 3 Ts M20 | 20 |    | Thermoplastic    | grey   |               |                      |                             | 10          |

### Accessories

#### EPIC® H-A 3 Hood Metal side entry

- SKINTOP® MS-M see page 650
- SKINTOP® MS see page 710

#### EPIC® H-A 3 Hood Thermoplastic side entry

- SKINTOP® ST-M see page 641
- SKINTOP® ST see page 708

New

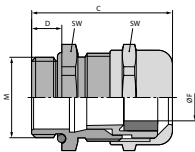
## SKINTOP® MS-M / SKINTOP® MSR-M



SKINTOP® MS-M



SKINTOP® MSR-M



## Info

- Sizes SKINTOP® MS-M 75x1,5 to 110x2 with innovative double lamella gasket for easier assembling of cables with large diameters.
- Now with IP 69 K approval! Proven functionality also during hardest cleaning procedures at industrial machinery with high-pressure cleaners and hot water!

## ■ Benefits

## SKINTOP® MS-M

- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges
- For cable diameters up to 98 mm

## SKINTOP® MSR-M

- Benefits see SKINTOP® MS-M

## ■ Application range

## SKINTOP® MS-M

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering

## SKINTOP® MSR-M

- With reducing seal insert, to seal cables with smaller outer diameters.

## ■ Approvals (Norm references)



## ■ Design

- Metric connection thread acc. to EN 50262

## ■ Note

- Counter nut to be used SKINDICHT® SM-M
- For suitable accessories see SKINTOP® metric accessories

## ■ Suitable cables

## SKINTOP® MS-M

- For IP 69 K applications we recommend to use the following cables:  
ÖLFLEX® ROBUST 200  
H07RN8-F

## ■ Technical data



## Caution

Installation dimensions and tightening torques see Appendix T21



## Approvals

IP 69 K approval for size M75x1,5 pending UL, CSA, DNV, VDE, IP 69 K approval for size M90x2 to M110x2 pending



## Material

Body: Nickel plated brass  
Insert: Polyamide  
Seal: CR  
O-ring: NBR



## Degree of protection

IP 68  
IP 69 K



## Range of temperature

-30°C up to +100°C

| Part number           | Part designation / size | Clamping range ØF mm | SW mm | Overall length C mm | Thread length D mm | Pieces / PU |
|-----------------------|-------------------------|----------------------|-------|---------------------|--------------------|-------------|
| <b>SKINTOP® MS-M</b>  |                         |                      |       |                     |                    |             |
| 53112000              | 12 x 1,5                | 3-7                  | 16    | 26,5                | 6,5                | 100         |
| 53112010              | 16 x 1,5                | 4,5-10               | 20    | 32,0                | 7,0                | 100         |
| 53112020              | 20 x 1,5                | 7-13                 | 24    | 35,5                | 8,0                | 50          |
| 53112030              | 25 x 1,5                | 9-17                 | 29    | 37,5                | 8,0                | 25          |
| 53112040              | 32 x 1,5                | 11-21                | 36    | 42,2                | 9,0                | 25          |
| 53112050              | 40 x 1,5                | 19-28                | 45    | 49,5                | 9,0                | 10          |
| 53112060              | 50 x 1,5                | 27-35                | 54    | 52,0                | 10,0               | 5           |
| 53112070              | 63 x 1,5                | 34-45                | 67    | 61,3                | 15,0               | 5           |
| 53112080              | 63 x 1,5 plus           | 44-55                | 75    | 65,5                | 15,0               | 5           |
| 53112510              | 75 x 1,5                | 58-68                | 95    | 105,0               | 15,0               | 1           |
| 53112512              | 90 x 2                  | 66-78                | 115   | 136,0               | 20,0               | 1           |
| 53112514              | 110 x 2                 | 86-98                | 135   | 154,0               | 25,0               | 1           |
| <b>SKINTOP® MSR-M</b> |                         |                      |       |                     |                    |             |
| 53112100              | 12 x 1,5                | 1-5                  | 16    | 26,5                | 6,5                | 100         |
| 53112110              | 16 x 1,5                | 2-7                  | 20    | 32,0                | 7,0                | 100         |
| 53112120              | 20 x 1,5                | 5-10                 | 24    | 35,5                | 8,0                | 50          |
| 53112130              | 25 x 1,5                | 6-13                 | 29    | 37,5                | 8,0                | 25          |
| 53112140              | 32 x 1,5                | 7-15                 | 36    | 42,2                | 9,0                | 25          |
| 53112150              | 40 x 1,5                | 15-23                | 45    | 49,5                | 9,0                | 10          |
| 53112160              | 50 x 1,5                | 22-29                | 54    | 52,0                | 10,0               | 5           |
| 53112170              | 63 x 1,5                | 28-39                | 67    | 61,3                | 15,0               | 5           |
| 53112511              | 75 x 1,5                | 53-63                | 95    | 105,0               | 15,0               | 1           |
| 53112515              | 110 x 2                 | 76-88                | 135   | 154,0               | 25,0               | 1           |

## ■ Accessories

## SKINTOP® MS-M

- SKINDICHT® SM-M see page 687
- SKINTOP® DIX-M see page 662
- SKINTOP® DIX-M AUTOMATION see page 663
- SKINTOP® SDV-M ATEX see page 664
- SKINTOP® SD-M see page 665
- SKINTOP® DV-M see page 665

## SKINTOP® MSR-M

- SKINDICHT® SM-M see page 687
- SKINTOP® SDVR-M ATEX see page 664
- SKINTOP® SD-M see page 665