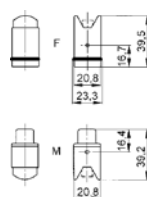




Info

- Straight cable entry from the rear



M

F

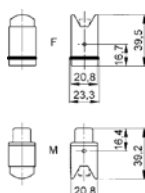


EPIC® H-A 3



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
H-A 3 screw termination				
10420000	H-A 3 SS	male	1 - 3	10
10421000	H-A 3 BS	female	1 - 3	10
H-A 4 screw termination				
10431000	H-A 4 SS	male	1 - 4	10
10432000	H-A 4 BS	female	1 - 4	10

EPIC® H-A 3 Surface Mount Base



EPIC® H-A 3 Surface Mount Base (open bottom)



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

EPIC® H-A 3 Surface Mount Base

- Surface mount base
- 1 lever
- 1 cable entry
- Versions with / without cable gland
- Including flat gasket

EPIC® H-A 3 Surface Mount Base (open bottom)

- Surface mount base

- 1 lever
- 2 cable entries
- Housing type: With open bottom
- Including flat gasket

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

Housing: zinc die-casting powder-coated grey
Lever: steel, zinc-plated
Sealing: NBR
Housing: thermoplastics grey, black
Lever: steel, zinc-plated
Sealing: NBR



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
H-A housing: Surface mount base									
10512700	H-A 3 MAgsv		11	Zinc die-casting	grey			51.5	10
10424000	H-A 3 Agsv		11	Thermoplastic	grey			56.0	10
10424500	H-A 3 MAgsv		11	Zinc die-casting	grey	yes	6.5 - 12.0	57.5	10
10424200	H-A 3 Agsv		11	Thermoplastic	grey	yes	6.5 - 12.0	65.0	10
19512700	H-A 3 MAgsv M20	20		Zinc die-casting	grey			54.5	10
19421900	H-A 3 Agsv M20	20		Thermoplastic	grey	yes	3.0 - 13.5	56.0	10
19424500	H-A 3 MAgsv M20	20		Zinc die-casting	grey	yes	3.0 - 13.5	60.5	10
H-A housing: Surface mount base (with open bottom)									
19517200	H-A 3 MAgsv M20	20		Zinc die-casting	grey				10
19515200	H-A 3 Agsv M20	20		Thermoplastic	grey				10

New

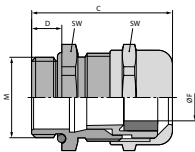
SKINTOP® MS-M / SKINTOP® MSR-M



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
SKINTOP® MS-M						
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
SKINTOP® MSR-M						
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