



HA Series



Quarter Turn Locks
Compression Locks & Latches
Handle Locks
Rod Control Locks
Electronic Locks
Canopy Locks, Handles & Door Stay
Hinges
9 Fold Accessories
Sealing Profiles
Fan Filter
Panel Fasteners
Sleeve & Termination
Wiring Accessories

1. Specifications
DIN VDE 0110 Concerning clearance and creepage distances
DIN VDE 0627 Connectors and plug devices
2. Standards
DIN EN 60664-1
DIN EN 61984
3. Approvals



Connectors



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HA technical characteristics

Specifications.....DIN EN 60 664-1
.....DIN EN 61984

Number of contacts.....3,4,10,16,32(2x16) + PE

INSERTS

Working current
HA-3, HA-4..... 10A
HA-10, HA-16, HA-32..... 16A

Working voltage
HA-3, HA-4..... 250V/400V
HA-10, HA-16, HA-32250V

Test voltage urms
HA-003, HAS-004, HA-10, HA-16, HA-32..... 4KV
HAS-003.....6KV
HA-004..... 2.5KV

Pollution degree..... 2

Insulation resistance..... $\geq 10^{10}\Omega$
Material..... Polycarbonate or Polybutylece
Temperature range..... -40°C... +100°C/125°C
Flammability acc. to UL94..... V0
Working voltage acc. to UL/CSA..... 600V
Mechanical working life-mating cycles..... ≥ 500

CONTACTS

Material..... Copper alloy
Surface.....Hard silver-plated
.....Hard gold-xplated

Contact resistance..... $\geq 10^{10}\Omega$

Terminal.....Screwterminal
.....Crimp terminal
.....Spring terminal

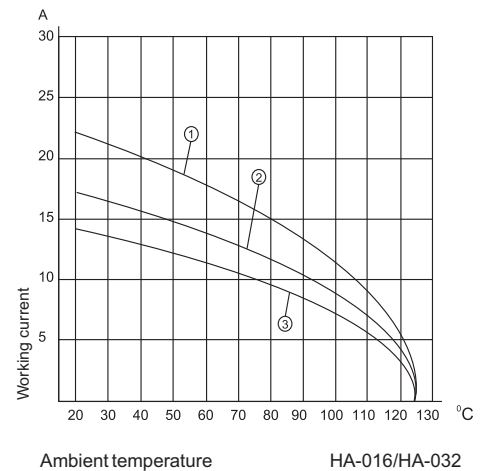
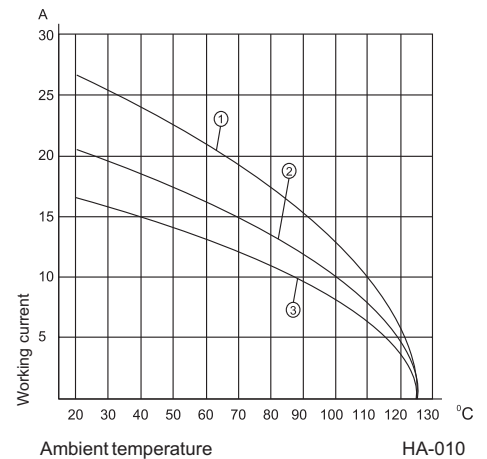
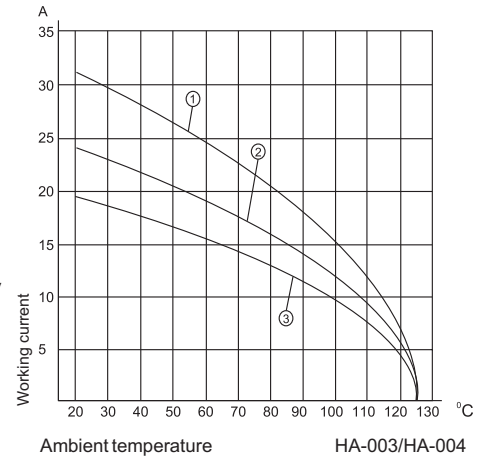
- mm²..... 0.5-2.5mm²/0.14-4.0mm²/0.5-2.5mm²
- AWG..... 20-14/26-14/20-14
- Tightening/test torque.....0.5Nm: HA-010, HA-016, HA-032

HOODS, HOUSINGS

Material..... Die Cast Zinc
Surface.....Powder-coated (RAL 7037)
Locking element..... Stainless steel, steel-zinc plated
Temperature range..... -40°C... +100°C/125°C
Degree of protection acc. to DIN40 050..... Ip65

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.



- 1 Wire gauge: 2.5mm²
- 2 Wire gauge: 1.5mm²
- 3 Wire gauge: 1.0mm²



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HA technical characteristics

Specifications..... DIN VDE 0627
 DIN VDE 0110
 Standards.....DIN 43 652
CECC 75 301-801
 Number of contacts.....7,8,15,25,40,50(2x25),64,
 80(2x40),128(2x64) + PE

INSERTS

Working current..... 10A max
 (See current carrying capacity)
 Working voltage.....(8D is 50V)
250V, Insulation group C
 Test voltage urms.....4KV(8D is 0.8KV)
 Pollution degree.....2
 Insulation resistance..... $\geq 10^{10} \Omega$
 Material.....Polycarbonate or Polybutylece
 Temperature range.....-40°C... +100°C/125°C
 Flammability acc. to UL94..... V0
 Working voltage acc. to UL/CSA.....600V
 Mechanical working life-mating cycles..... ≥ 500

CONTACTS

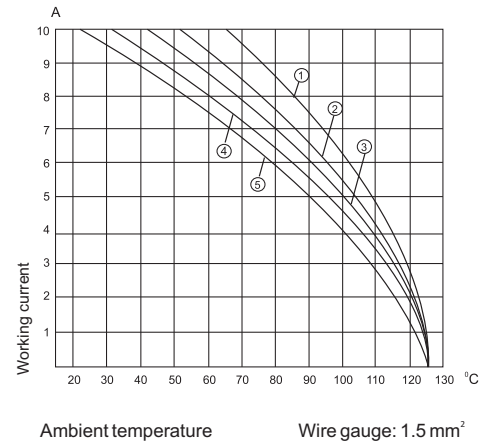
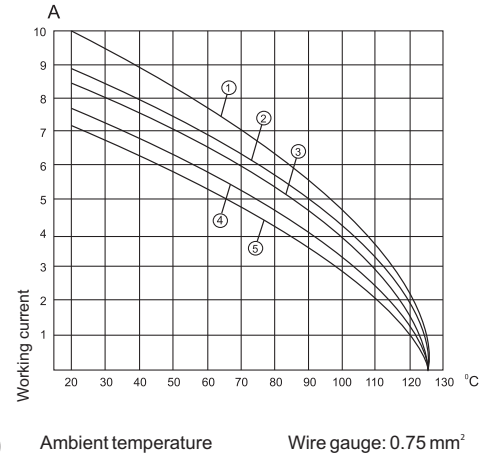
Material..... Copper alloy
 Surface.....Hard silver-plated
Hard gold-plated
 Contact resistance..... $\geq 3m\Omega$
 Terminal..... Crimpterminal
Rolled terminal
 - mm².....0.15-2.5mm²
 - AWG.....26-14

HOODS, HOUSINGS

Material.....Die Cast Aluminium
 Surface.....Powder-coated (RAL 7037)
 Locking element.....Stainless steel, steel-zinc plated
 Temperature range.....-40°C... +125°C
 Degree of protection acc. to DIN40 050.....Ip65

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.



1. HD-007
2. HD-015
3. HD-025
4. HD-040
5. HD-064