

## Series 03

### Circular connectors with threaded joint M16

for IP40/IP68

Wide range of types, with or without shielding. Compatible system according to IEC 60130-9 resp. IEC 61076-2-106, SWUM™ parts even sealed when unmated, many types acc. to AISG specification. For signal and load currents up to 5 A.

Number of poles

Housing

■ Insulating body:  
PA GF, V-0 according to UL94  
(...-2, PA, V-2 according to UL94)

■ Contact:  
gold-plated/flash gold-plated

■ Connectable wire section:  
3–8 poles 0.75 mm<sup>2</sup>  
12–14 poles 0.25 mm<sup>2</sup>

■ Rated current:  
3–8 poles 5 A  
12–14 poles 3 A

■ Rated voltage according to pin configuration<sup>1</sup>:  
3–7 poles 300 V AC  
5–8 poles 100 V AC  
12–14 poles 160 V AC

















Number of poles

Housing

detailed information: [www.lumberg.com](http://www.lumberg.com)

\* SWUM™: Sealed when unmated, watertight in unmated condition. AISG: Product according to AISG specification C485.

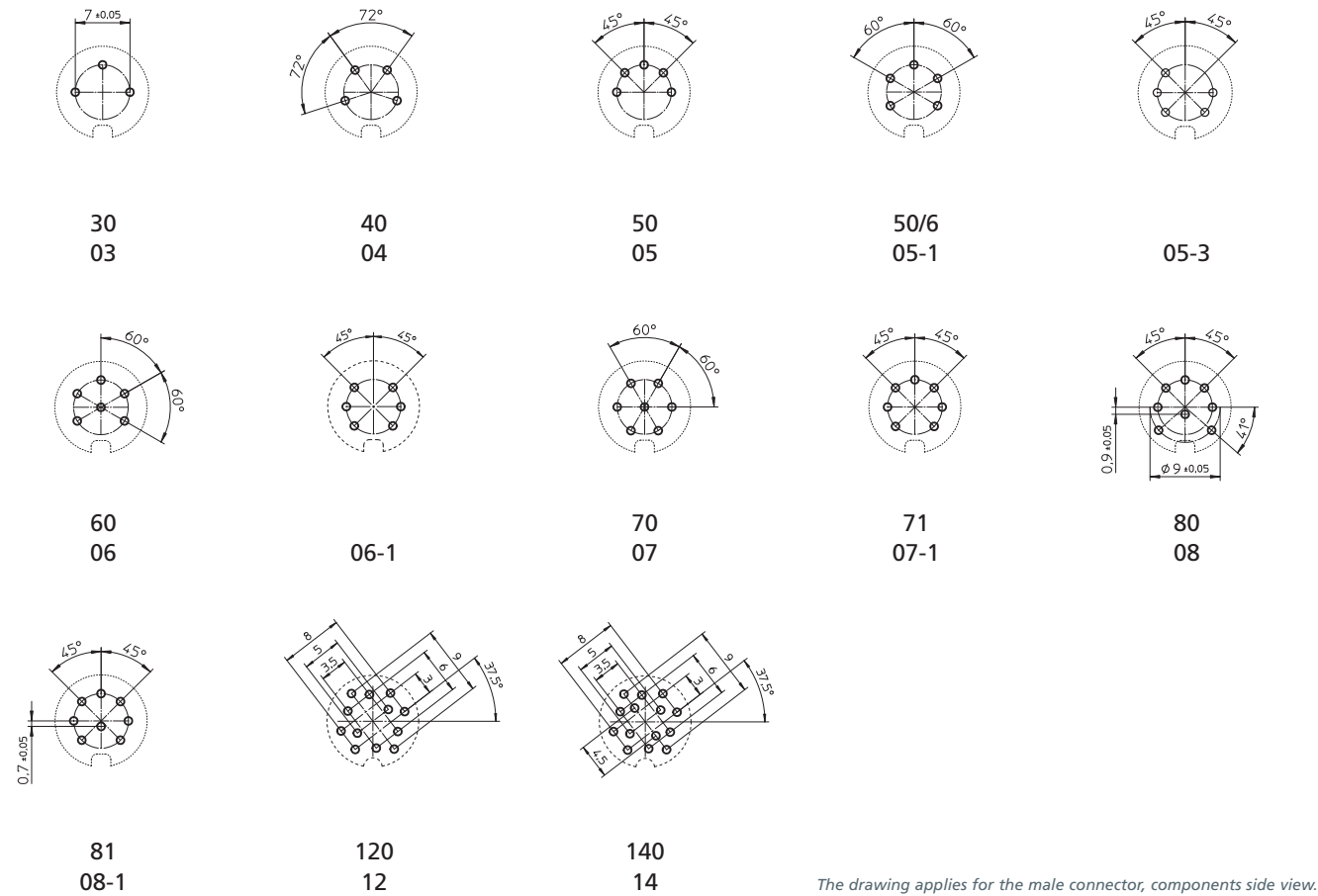
<sup>1</sup> At pollution degree 1, according to IEC 60664.

 <div>SV... · KV...</div> <div>IP40</div> <div>Plugs and sockets with threaded joint and with solder terminals</div> <div>plugs, straight SV up to cable-Ø 6 mm SV...-8 up to cable-Ø 8 mm</div> <div>sockets, straight KV up to cable-Ø 6 mm KV...-8 up to cable-Ø 8 mm</div> <div>mating plugs with K..., WKV sockets with S..., WSV</div>	 <div>WSV · WKV</div> <div>IP40</div> <div>Plugs and sockets with threaded joint and with solder terminals</div> <div>plugs, angular WSV up to cable-Ø 6 mm</div> <div>sockets, angular WKV up to cable-Ø 6 mm</div> <div>mating plugs with 0330..., K..., WKV sockets with 0320..., S..., WSV</div>	 <div>SF... · SG...</div> <div>IP40</div> <div>Chassis plugs with threaded joint</div> <div>with solder terminals SFV for front mounting SGV for rear mounting</div> <div>for circuit boards SGR for rear mounting</div> <div>mating with sockets KF..., KG..., KV..., WKV</div>	 <div>KF... · KG...</div> <div>IP40</div> <div>Chassis sockets with threaded joint</div> <div>with solder terminals KFR for front mounting KGV for rear mounting</div> <div>for circuit boards KFR for front mounting KGR for rear mounting</div> <div>mating with plugs SF..., SG..., SV..., WSV</div>	 <div>030398</div> <div>IP40</div> <div>Chassis sockets with threaded joint and ground contact, for rear mounting</div> <div>030398</div> <div>mating with plugs SF..., SG..., SV..., WSV</div>	 <div>032... · 033...</div> <div>IP68</div> <div>Plugs and sockets with threaded joint, unshielded, up to cable-Ø 8 mm</div> <div>with solder terminals 0331 plug 0321 socket</div> <div>mating 033..., 0365 with sockets 030..., 032..., 036... 032..., 0360 with plugs 031..., 033..., 036...</div>	 <div>032... · 033... · 036...</div> <div>IP68</div> <div>Plugs and sockets with threaded joint, shielded, up to cable-Ø 8 mm</div> <div>with solder terminals 0332(-1*) plug 360° 0322(-1*) socket 360°</div> <div>empty housing for crimp contacts 0365* plug 360° 0360* socket 360°</div> <div>mating 033..., 0365 with sockets 030..., 032..., 036... 032..., 0360 with plugs 031..., 033..., 036...</div>	 <div>032... · 033... · 036...</div> <div>NEW IP68</div> <div>Plugs and sockets with threaded joint, with vibration protection, optimized assembly, shielded, up to cable-Ø 10 mm</div> <div>with solder terminals 033200* plug 360° 032200* socket 360°</div> <div>empty housing for crimp contacts 036500* plug 360° 036000* socket 360°</div> <div>mating 033..., 036500 with sockets 030..., 032..., 036... 032..., 036000 with plugs 031..., 033..., 036...</div>	 <div>0314...</div> <div>IP68</div> <div>Chassis plugs with threaded joint and with solder terminals, for front mounting</div> <div>0314 0314-1 AISG* 0314-2 SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>0315...</div> <div>IP68</div> <div>Chassis plugs with threaded joint and with solder terminals, for rear mounting</div> <div>0315 0315-1 AISG* 0315-2 SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>0316...</div> <div>IP68</div> <div>Chassis plugs with threaded joint, for printed circuit boards, for front mounting</div> <div>0316 0316-1 AISG* 0316-2 SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>0317...</div> <div>IP68</div> <div>Chassis plugs with threaded joint, for printed circuit boards, for rear mounting</div> <div>0317 0317-1 AISG* 0317-2 SWUM™, AISG* 031799-2 with hexagonal nut, SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>031798...</div> <div>IP68</div> <div>Chassis plugs with threaded joint and ground contact, for printed circuit boards, for rear mounting</div> <div>031798-1 AISG* 031798-2 SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>0304...</div> <div>IP68</div> <div>Chassis sockets with threaded joint and with solder terminals, for front mounting</div> <div>0304 0304-1 AISG* 0304-2 SWUM™, AISG*</div> <div>matings with plugs 033..., 0365</div>	 <div>0305...</div> <div>IP68</div> <div>Chassis sockets with threaded joint and with solder terminals, for rear mounting</div> <div>0305 0305-1 AISG* 0305-2 SWUM™, AISG*</div> <div>matings with plugs 033..., 0365...</div>	 <div>0362 · 0363</div> <div>IP68</div> <div>Chassis sockets with threaded joint, for crimp contacts</div> <div>0362 for front mounting, AISG* 0363 for rear mounting, AISG*</div> <div>matings with plugs 033..., 0365...</div>
3–12			6			3–14 (03...-1, 03...-2 and 036... pin configurations 05-3, 06-1 and 08-1 only)									
CuZn, nickel-plated	PC	Zn diecast, nickel-plated			CuZn, nickel-plated			Zn diecast, pre-copper and nickel-plated							

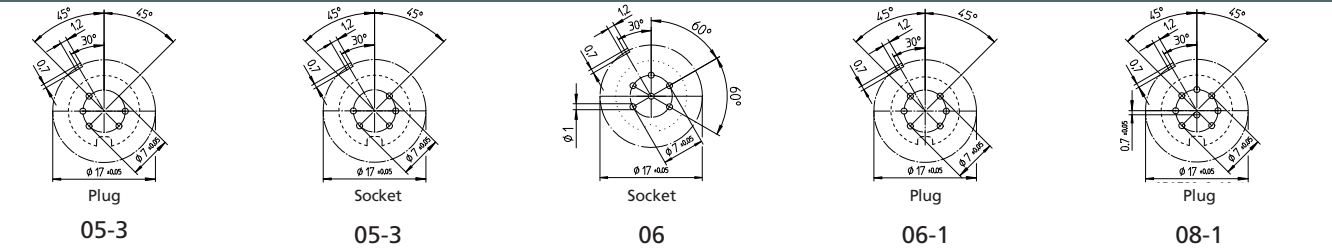
 <div>0306...</div> <div>IP68</div> <div>Chassis sockets with threaded joint, for printed circuit boards, for front mounting</div> <div>0306 0306-1 AISG* 0306-2 SWUM™, AISG*</div> <div>matings with plugs 033..., 0365...</div>	 <div>0307...</div> <div>IP68</div> <div>Chassis sockets with threaded joint, for printed circuit boards, for rear mounting</div> <div>0307 0307-1 AISG* 0307-2 SWUM™, AISG* 030799-2 with hexagonal nut, SWUM™, AISG*</div> <div>matings with plugs 033..., 0365...</div>	 <div>030798...</div> <div>IP68</div> <div>Chassis sockets with threaded joint, for printed circuit boards, for rear mounting</div> <div>030798-1 AISG* 030798-2 SWUM™, AISG*</div> <div>matings with plugs 033..., 0365...</div>	 <div>0318...</div> <div>IP68</div> <div>Flange chassis plugs with threaded joint, with solder terminals, for front mounting</div> <div>0318 0318-1 AISG* 0318-2 SWUM™, AISG*</div> <div>matings with sockets 032..., 0360...</div>	 <div>0308...</div> <div>IP68</div> <div>Flange chassis sockets with threaded joint, with solder terminals, for front mounting</div> <div>0308 0308-1 AISG* 0308-2 SWUM™, AISG* fof crimp contacts 036297 AISG*</div> <div>matings with plugs 033..., 0365...</div>	 <div>0305-1 U · 0315-1 U</div> <div>IP68</div> <div>Chassis plugs and sockets with threaded joint, cables and potted solder area, for rear mounting</div> <div>0305-1 U socket, AISG* 0315-1 U plug, AISG*</div>	 <div>0369 V109 · 0364 V109</div> <div>IP68</div> <div>Crimp contacts, gold-plated, connectable wire sections 0.25–0.75 mm<sup>2</sup> (AWG 23–18)</div> <div>0369 V109 pin, for plug housings 0364 V109 bush, for socket housings</div> <div>CuSn, gold-plated</div>	 <div>038...</div> <div>IP68</div> <div>Protecting caps and shielding ring</div> <div>protective caps, metal 0383 with chain, for plugs 038399 without chain, for plugs 0381 with chain, for sockets 038199 without chain, for sockets</div> <div>protective caps, plastic 038899 without chain, for plugs 038799 without chain, for sockets</div> <div>shielding ring 0382</div> <div>CuZn, nickel-plated/PC</div>	 <div>038... · 0322 C 16 · 0308 C02</div> <div>IP68</div> <div>Gaskets and nuts</div> <div>nuts 0384 hexagonal nut 0385 slit nut</div> <div>flat gaskets 0308 C 02 flat gasket for flange receptacles 0322 C 16 spare part flat gasket</div> <div>CuZn, pre-nickel and tin-plated</div>	 <div>0380 · ZMS 20</div> <div>IP68</div> <div>Wrench for plugs and sockets</div> <div>0380 wrench for plugs and sockets 032..., 033... ZMS 20 wrench for chassis plugs and chassis sockets 030..., 031..., KFR, KFR, KGR, KGV, SFV, SGR, SGV</div>	<div>Series 01</div> <div>Miniature and DIN circular connectors</div> <div>Circular DIN connectors without threaded joint, compatible according to IEC 60130-9 resp. IEC 61076-2-106. For signal and low load currents up to 4 A.</div> <div>Number of poles</div> <div>Contact plating</div> <div>Rated current</div> <div>Rated voltage</div>	 <div>MP-371 · MJ-372 · TM 0508 A</div> <div>IP68</div> <div>Miniatur circular connectors (with bend protection and solder connection) and miniature chassis socket (for printed circuit boards)</div> <div>MP-371 plug MJ-372 socket TM 0508 A chassis socket</div> <div>4, 6, 8 (TM 0508 A 4–8) silver-plated (TM 0508A fl. gold) 1 A AC 100 V AC</div>	 <div>0105 · 010599</div> <div>IP68</div> <div>Chassis sockets with ground contact and locking (for printed circuit boards)</div> <div>0105 angular 010599 angular</div> <div>5, 6, 8 tin-plated 24 V AC</div>	 <div>0131 · 0121</div> <div>IP68</div> <div>Circular DIN connector, shielded, with locking latch (with bend protection and solder connection)</div> <div>0131 plug 0121 socket</div> <div>3–8 (0107 3, 4, 5, 7, 8) silver-plated 4 A</div>	 <div>0137 · 0103</div> <div>IP68</div> <div>Circular DIN connector, shielded, with locking latch (with bend protection and solder connection) and circular DIN chassis socket (with solder connection)</div> <div>0137 plug 0103 chassis socket</div> <div>60 V AC</div>	 <div>0132 · 0134 · 0122 · 0107</div> <div>IP68</div> <div>Circular DIN connectors, shielded, with bayonet locking (with bend protection and solder connection) and circular DIN chassis socket (with solder connection)</div> <div>0132 plug, straight 0134 plug angular 0122 socket 0107 chassis socket</div>
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Printed Circuit Board Layout for Chassis Connectors\*



Printed Circuit Board Layout for Chassis Connectors with Ground Contact\*



detailed information: [www.lumberg.com](http://www.lumberg.com)  
\* SWUM™: Sealed when unmated, watertight in unmated condition. AISG: Product according to AISG specification C485.  
1 At pollution degree 1, according to IEC 60664.

PROTECTION CLASSES

INTERNATIONAL PROTECTION CLASSES ACCORDING TO  
DIN EN 60529 (IEC 529/VDE 047 T1)

CODE LETTERS  
(International  
Protection)








IP

FIRST INDEX FIGURE  
(foreign bodies protection)

6

SECOND INDEX FIGURE  
(water protection)

8

INDEX	DEGREE OF PROTECTION
0	 No protection against accidental contact, no protection against solid foreign bodies
1	 Protection against contact with any large area by hand and against solid foreign bodies with $\varnothing > 50\text{ mm}$
2	 Protection against contact with the fingers, protection against solid foreign bodies with $\varnothing > 12\text{ mm}$
3	 Protection against tools, wires or similar objects with $\varnothing > 2.5\text{ mm}$ , protection against solid foreign bodies with $\varnothing > 2.5\text{ mm}$
4	 As 3, however $\varnothing > 1\text{ mm}$
5	 Full protection against contact, protection against interior injurious dust deposits
6	 Total protection against contact, protection against penetration of dust










INDEX	DEGREE OF PROTECTION
0	 No protection against water
1	 Protection against vertical water drips
2	 Protection against diagonal water drips (up to a $15^\circ$ angle)
3	 Protection against diagonal water drips (up to a $60^\circ$ angle)
4	 Protection against water (out of a nozzle) from all directions
5	 Full protection against contact, protection against interior injurious dust deposits
6	 Protection against ingress of water in case of temporary flooding
7	 Protection against ingress of water in case of temporary immersion
8	 Protection against ingress of water in case of continuous immersion, requirements under agreement of user and manufacturer

Diagram in accordance with DIN VDE 470-1, DIN EN 60529, IEC 60529  
Source: ZVEI - Zentralverband Elektrotechnik- und Elektroindustrie e.V.



[www.lumberg.com](http://www.lumberg.com) · [info@lumberg.com](mailto:info@lumberg.com)



Overview  
Circular Connectors  
M16 acc. to IEC 61076-2-106