ZS7300-0013 | Flange, field assembly, EtherCAT P, IP65/67, shielded



B23, flange front assembly, straight, short, female+ female, pins 4+PE+4, P-coded

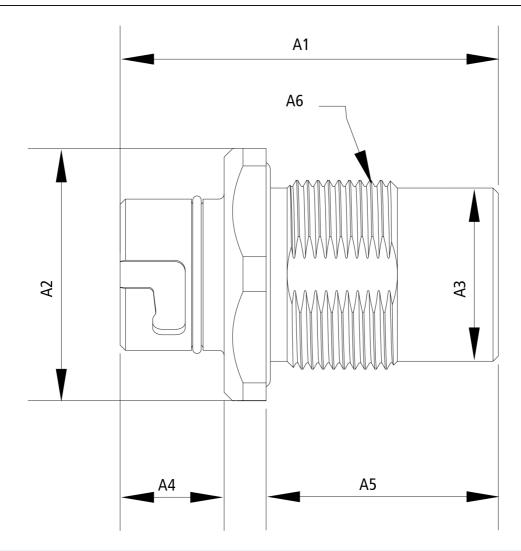


Electrical data	
Rated voltage (Ethernet)	24 V DC
Rated current (Ethernet)	3 A at 40 °C
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)
Rated current (power)	28 A at 40 °C
Rated impulse voltage (power)	6.0 kV
Rated impulse voltage (Ethernet)	1.0 kV
Voltage proof (contact/contact)	1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet)
Shielding	yes
Shielding (Ethernet)	yes
Contact resistance	< 10 m Ω (signal), < 5 m Ω (power)
Insulation resistance	\geq 100 M Ω (according to IEC 60512)
Mechanical data	
Accessories type	Connectors
Installation size	B23
Connector type	flange front assembly

Configurationstraight, shortContactypeFende+fendeNumber of positions (face)posdeCodingPosdeCodingContactomeMither of positions (face)stroncontomeMating cyclescontactomeMating cyclesSolo (Act MallWay of lockingColo (Act MallMating cyclesColo (Act MallSolo (Act Arrier Material)Na (MallContactarrier color (Fabere)FeldContactarrier color (Fabere)Solo (Act MallContactarrier color (Fabere)Solo (Act MallMax er cores section (Gabere)Solo (Act MallMa		
Yumber of positions (face) pins 4+PE+4 Coding P-coded Wine termination crimp connection Mating cycles ≥ 100 Way of locking bayonet Weight per piece 0.200 kg (0.441 lb) Body material CuZn, Ni Coupling nut material CuZn, Ni Seal HNBR Contact carrier material PA, UL 94 V-0 Contact carrier color (Ethernet) red Contact carrier color (power) red Contact carrier color (power) RvG12/4.0 mm² Max. wire cross-section (power) AWG12/4.0 mm² Max. wire cross-section (power) AWG12/4.0 mm² Max. acale outer diameter 3.015.0 mm f3.016.0 mm Max. acale outer diameter So (g 490 m/s ³) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes Vibration resistance Sig (S0 m /s ³) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes RoHS compliant yes Ambient temperature (operation) 20+90 °C, -4+194 °F Protection rating 95/67 in screwed condition (according to IEC 60529) Protectoin rating<	Configuration	straight, short
CodingP-codedWire terminationcrimp connectionMating cycles≥ 100Way of lockingbayonetWay of lockingbayonetBody materialCu2n, NiCoupling nut materialCu2n, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (Ethernet)redContact carrier color (Ethernet)Ni, Au gal.Contact carrier color (power)AWG22/0.34 mm²Max. wire cross-section (power)AWG22/0.34 mm²Max. wire cross-section (Ethernet)So (190 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistanceSo (190 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesNork resistancese (50 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 18 urb resistanceNork resistancese (5	Contact type	female+ female
Vire termination crimp connection Mating cycles ≥ 100 Way of locking bayonet Weight per piece 0.200 kg (0.441 lb) Body material Cu2n, Ni Coupling nut material Cu2n, Ni Seal HNBR Contact carrier rolor (Ethernet) Fd. VI.94 V-0 Contact carrier color (Ethernet) red Contact carrier color (Ethernet) red Contact carrier color (power) Rol (21/4.0 mm² Contact material coper alloy Max wire cross-section (power) AWG2/0.34 mm² Max. valie cors-section (Ethernet) So (420 ms²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes Shock resistance So (9 (490 m/s²) conforms to IEC 60512-6d, 11 ms; 18 shocks per direction, 3 axes Vibration resistance So (50 ms²) conforms to IEC 60512-6d, 11 ms; 18 shocks per direction, 3 axes Robs compliant ys Ambient temperature (operation) 20+90 °C, 4+194 °F Protection rating Jo (2 coording to IEC 6064-1)	Number of positions (face)	pins 4+PE+4
Mating cycles≥ 10Way of lockingbayonetWeight per piece0.200 kg (0.441 lb)Body materialCuZn, NiCoupling nut materialCuZn, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (power)redContact carrier color (power)redContact materialNi, Au gal.Contact materialCoper alloyContact materialAWG22/0.34 mm²Max. wire cross-section (Ethernet)Sec2/0.34 mm²Max. usire cross-section (Ethernet)Sec2/0.34 mm²Shock resistanceSo (g 409 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistanceSo (g 50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h fullRMS compliantysAmbient temperature (operation)20+90 °C, 4+194 °FProtection ratingIPS/67 in screwed condition (according to IEC 60529)Protection ratingJ2 (according to IEC 60564)	Coding	P-coded
Way of lockingbayonetWeight per piece0.200 kg (0.441 lb)Body materialCuZn, NiCoupling nut materialCuZn, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (Ethernet)redContact carrier color (power)redContact platingNi, Au gal.Contact materialAWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameterSo (g 400 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesFurionmental dtayesVibration resistanceSo (g 400 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full curationRoHS compliantyesAmbient temperature (operation)-20+90 °C, 4+194 °FProtection rating150.fr in screwed condition (according to IEC 60529)Protection ratingJ2 (according to IEC 60564-1)	Wire termination	crimp connection
Weight per piece0.200 kg (0.441 lb)Body materialCuZn, NiCoupling nut materialCuZn, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (power)redContact carrier color (power)redContact materialOpper alloyContact materialOpper alloyMax. wire cross-section (power)AWG22/0.34 mm²Max. cable outer diameter3015.0 mm, 15.016.0 mmEnvironmental dataSo g (900 m/s²) conforms to IEC 60512-6d, 11 ms; 18 shocks per direction, 3 axesVibration resistanceSg (50 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)20+90 °C, 4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Protection ratingIP65/67 in screwed condition (according to IEC 60529)	Mating cycles	≥ 100
Body material cuźn, Ni Body materialCuZn, NiCoupling nut materialCuZn, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (Ethernet)redContact carrier color (power)redContact carrier color (power)Rog 2.0.3.4 ma ² Contact materialcopper alloyMax. wire cross-section (power)AWG22/0.34 mm ² Max. cable outer diameter13.015.0 mm, 15.016.0 mmShock resistanceSo (g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistanceS g (50 m /s ²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full durationRolS compliantyesAnbient temperature (operation)1965/67 in screwed condition (according to IEC 60529)Protection rating0/2 (according to IEC 6064-1)	Way of locking	bayonet
Coupling nut materialCuZn, NiSealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (power)redContact carrier color (power)redContact materialNi, Au gal.Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. avire cross-section (Ethernet)3.015.0 mm, 15.016.0 mmFuvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistanceSig (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full durationReHS compliantyesAnbient temperature (operation)20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Protection ratingIP65/67 in screwed condition (according to IEC 60529)	Weight per piece	0.200 kg (0.441 lb)
SealHNBRContact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (power)redContact platingNi Au gal.Contact materialcoper alloyMax. wire cross-section (power)AWG22/0.34 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. adele outer diameter13.015.0 mm, 15.016.0 mmEnvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance9g (50 m/s²) conforms to IEC 60512-6d, 10 Hz s500 Hz; 10 cycles per axis; 6 h full urationRoKS compliant.seAnbient temperature (operation)9c+194 °FProtection ratingIPS/67 in screwed condition (according to IEC 60529)Protection rating19c5/67 in screwed condition (according to IEC 60529)Protection relevel3c (according to IEC 6064-1)	Body material	CuZn, Ni
Contact carrier materialPA, UL 94 V-0Contact carrier color (Ethernet)redContact carrier color (power)redContact platingNi, Au gal.Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm. 15.016.0 mmEnvironmental dataS0 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full curationRoHS compliantyesAmbient temperature (operation)26+194 °FProtection ratingP65/67 in screwed condition (according to IEC 60529)Protection rating3/2 (according to IEC 60664-1)	Coupling nut material	CuZn, Ni
Contact carrier color (Ethernet)redContact carrier color (power)redContact platingNi, Au gal.Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmFnvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance50 g (490 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full durationRoHS compliantysAmbient temperature (operation)20+90 °C, 4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Seal	HNBR
Contact carrier color (power)redContact platingNi, Au gal.Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance50 g (490 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)120+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 6064-1)	Contact carrier material	PA, UL 94 V-0
Contact platingNi, Au gal.Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental dataShock resistance50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance50 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesProtection ratingPo/sC ⁴ +194 °FPolution levelJ2 (according to IEC 6064-1)	Contact carrier color (Ethernet)	red
Contact materialcopper alloyMax. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental dataShock resistance50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance5g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Contact carrier color (power)	red
Max. wire cross-section (power)AWG12/4.0 mm²Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesShock resistance50 g (490 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Contact plating	Ni, Au gal.
Max. wire cross-section (Ethernet)AWG22/0.34 mm²Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental data50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesShock resistance50 g (490 m/s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationVibration resistanceyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Contact material	copper alloy
Max. cable outer diameter13.015.0 mm, 15.016.0 mmEnvironmental data13.015.0 mm, 15.016.0 mmShock resistance50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Max. wire cross-section (power)	AWG12/4.0 mm ²
Environmental dataShock resistance50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Max. wire cross-section (Ethernet)	AWG22/0.34 mm ²
Shock resistance50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axesVibration resistance5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Max. cable outer diameter	13.015.0 mm, 15.016.0 mm
Vibration resistance5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz 500 Hz.; 10 cycles per axis; 6 h full durationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Environmental data	
Vibration resistancedurationRoHS compliantyesAmbient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Shock resistance	50 g (490 m/s²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes
Ambient temperature (operation)-20+90 °C, -4+194 °FProtection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	Vibration resistance	
Protection ratingIP65/67 in screwed condition (according to IEC 60529)Pollution level3/2 (according to IEC 60664-1)	RoHS compliant	yes
Pollution level 3/2 (according to IEC 60664-1)	Ambient temperature (operation)	-20+90 °C, -4+194 °F
	Protection rating	IP65/67 in screwed condition (according to IEC 60529)
Approvals UL 2237: File E484763	Pollution level	3/2 (according to IEC 60664-1)
	Approvals	UL 2237: File E484763

Dimensions

BECKHOFF New Automation Technology



A1	42.50 mm
A2	30.00 mm
A3	23.80 mm
A4	20.40 mm
A5	17.10 mm
A6	M25

Notes

- Delivery without crimp contacts

- Illustrations similar

Ordering information	
ZS7300-0013	B23, flange, metal, shielded, crimp, straight, short, female+female, 5+4-pin, front assembly, P-coded

Accessories

ZB8810-0000	crimping tool for Ethernet element, M8, B12, B17, B23 contacts
ZB8810-0002	crimping insert and locator for Ethernet element, M8 and B23 contacts
ZS7000-C001	Crimp contact, Ethernet element, male, AWG22/0.34 mm ² , PU = 50 pieces
ZS7000-C010	B23 crimp contact, female, 4 mm ² , packaging unit = 50 pieces
ZS7000-C016	B23 crimp contact, female, 1.5 mm ² , packaging unit = 50 pieces
ZS7000-C018	B23 crimp contact, female, 2.5 mm ² , packaging unit = 50 pieces
ZS7000-C030	B23 crimp contact, female, 0.75 mm², packaging unit = 50 pieces
ZS7300-B001	B23 protection cap, socket/flange, plastic, IP67, packaging unit = 10 pieces
ZS7300-B002	B23 protection cap, socket/flange, metal, IP67, packaging unit = 5 pieces
ZS7300-B009	B23 color coding flange for front/rear assembly, red, packaging unit = 10 pieces
ZS7300-B010	B23 color coding flange for front/rear assembly, yellow, packaging unit = 10 pieces
ZS7300-B011	B23 color coding flange for front/rear assembly, blue, packaging unit = 10 pieces
ZS7300-B012	B23 color coding flange for front/rear assembly, green, packaging unit = 10 pieces
ZS7300-B013	B23 color coding flange for front/rear assembly, orange, packaging unit = 10 pieces
ZS7300-B014	B23 color coding flange for front/rear assembly, gray, packaging unit = 10 pieces



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

Beckhoff[®], TwinCAT[®], TwinCAT/BSD[®], TC/BSD[®], EtherCAT[®], EtherCAT G[®], EtherCAT G¹⁰[®], EtherCAT P[®], Safety over EtherCAT[®], TwinSAFE[®], XFC[®], XTS[®] and XPlanar[®] are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 08/2023

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressively agreed in the terms of contract.



Technical changes reserved Revision 1.0 | Site 4 of 4