



Product Service

CERTIFICATE

No. B 081994 0009 Rev. 02

Holder of Certificate: **Shanghai Hualun Instruments & Electronics Co., Ltd**

Building 1&3, JinJiang Industrial Park, Qianyang Road 271
200070 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Connector**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7041011107902-03

Valid until: 2030-12-09

Date, 2025-12-10

(Ying Liu)

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Model(s):

B MSx A y z a b c
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series Prefix (HUALUN code) :

T : Thread coupling

B : Bayonet Lock Coupling

② x stands for Series Prefix (MIL code), may be

MS 3106 : solder connection, straight plug adapter

MS 3108 : solder connection, angled plug adapter

MS 3102 : solder connection, flange mounting receptacle

MS 3100 : solder connection, flange mounting receptacle with receptacle adapter

MS 3101 : solder connection, free receptacle

MS 3406 : crimped connection, straight plug adapter

MS 3408 : crimped connection, angled plug adapter

MS 3402 : crimped connection, flange mounting receptacle

MS 3400 : crimped connection, flange mounting receptacle with receptacle adapter

MS 3401 : crimped connection, free receptacle

③ Shell Class :

A : Solid shell

④ y stands for Contact Arrangements:

Shell Size Code – contact code, may be

14S-7, 14S-9,

16S-1, 16S-5, 16-9, 16-10,

18-10, 18-11, 18-12, 18-19, 18-20,

20-15, 20-16, 20-18, 20-27, 20-29, 20-33, 20-A48,

22-14, 22-19, 22-20, 22-28, 22-23,

24-5, 24-A25, 24-2, 24-2A,

28-12, 28-15, 28-16, 28-21, 28-A9, 28-22,

32-73, 32-22, 32-25,

36-7, 36-52,

40-56, 40-A100

⑤ z stands for Contact Type, may be

P : Pin (Silver plating)

S : Socket (Silver plating)

PG : Pin (Gold plating)

SG : Socket (Gold plating)

⑥ a stands for Insert Orientation, may be

N, W, X, Y, Z

⑦ b stands for Optional Outlet Type

(cable clamps type or glands type)

Cable Clamp : may be 14A, 16A, 18A, 20A, 22A,

24A, 28A, 32A, 36A, 40A

Cable Gland or hose outlet (IP67) : may be VG7, VG9, VG11,

VG13.5, VG16, VG21, VG29, VG36, NG7, NG9, NG11, NG13.5,

NG16, NG21, NG29, NG36, AG7, AG9, AG11, AG13.5, AG16,

AG21, AG29, AG36,

M20, M25, M32, M40

⑧ c stands for Customized Code, may be

blank : Green shell

BK : Black shell

For model list refer to table 1

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Parameters:

Rated voltage:	500VAC
Rated current:	See Table 2
Impulse voltage:	4kV
Pollution degree:	2
Range of temperature:	-55°C to 125°C
With or without breaking capacity:	COC
Mechanical operating cycles:	500
Degree of protection:	See Table 3

Tested according to: EN 61984:2009

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Table 1

①	②	③	④	⑤	⑥	⑦	⑧
B, T	MS 3106, MS 3108, MS 3100, MS 3101, MS 3406, MS 3408, MS 3400, MS 3401	A	14S-7, 14S-9,	P, S, PG, SG	N, W, X, Y, Z	14A, VG7, NG7, AG7, VG9, NG9, AG9	BK, blank
			16S-1, 16S-5, 16-9, 16-10			16A, VG9, NG9, AG9	
			18-10, 18-11, 18-12, 18-19, 18-20			18A, VG11, VG13.5, NG11, NG13.5, AG11, AG13.5, M20	
			20-15, 20-16, 20-18, 20-27, 20-29, 20-33, 20-A48			20A, VG13.5, VG16, NG13.5, NG16, AG13.5, AG16	
			22-14, 22-19, 22-20, 22-28, 22-23			22A, VG16, VG21, NG16, NG21, VG29, AG16, AG21, M32	
			24-5, 24-A25, 24-2, 24-2A			24A, VG16, VG21, VG29, NG16, NG21, NG29, AG16, AG21, AG29, M25	
			28-12, 28-15, 28-16, 28-21, 28-A9, 28-22			28A, VG21, VG29, NG21, NG29, AG21, AG29	
			32-73, 32-22, 32-25			32A, VG21, VG29, NG21, NG29, AG21, AG29, M40, M32	
			36-7, 36-52, 40-56, 40-A100			36A, VG29, VG36, NG29, NG36, AG29, AG36, M40, 40A	
			14S-7, 14S-9, 16S-1, 16S-5, 16-9, 16-10, 18-10, 18-11, 18-12, 18-19, 18-20, 20-15, 20-16, 20-18, 20-27, 20-29, 20-33, 20-A48, 22-14, 22-19, 22-20, 22-28, 22-23, 24-5, 24-A25, 24-2, 24-2A, 28-A9, 28-22, 28-12, 28-15, 28-16, 28-21, 32-73, 32-22, 32-25, 36-7, 36-52, 40-56, 40-A100			Blank	
				P, S, PG, SG	N, W, X, Y, Z		BK, blank

eg. BMS3106A14S-7PNVG7, TMS3102A36-7PNBK

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Table 2

Models		Contacts Size x Qty.	Rated Current
①②	④		
BMS/TMS 3106, BMS/TMS 3108, BMS/TMS 3102, BMS/TMS 3100, BMS/TMS 3101, BMS/TMS 3406, BMS/TMS 3408, BMS/TMS 3402, BMS/TMS 3400, BMS/TMS 3401	14S-7	#16 x 3	13A
	14S-9	#16 x 2	13A
	16S-1	#16 x 7	13A
	16S-5	#16 x 3	13A
	16-9	#16 x 2 #12 x 2	13A 23A
	16-10	#12 x 3	23A
	18-10	#12 x 4	23A
	18-11	#12 x 5	23A
	18-12	#16 x 6	13A
	18-19	#16 x 10	13A
	18-20	#16 x 5	13A
	20-15	#12 x 7	23A
	20-16	#16 x 7 #12 x 2	13A 23A
	20-18	#16 x 6 #12 x 3	13A 23A
	20-27	#16 x 14	13A
	20-29	#16 x 17	13A
	20-33	#16 x 11	13A
	20-A48	#16 x 19	13A
	22-14	#16 x 19	13A
	22-19	#16 x 14	13A
	22-20	#16 x 9	13A
	22-28	#12 x 7	23A
	22-23	#12 x 8	23A
	24-5	#16 x 16	13A
	24-A25	#16 x 25	13A
	24-2A	#12 x 6 #8 x 1	23A 46A
	24-2	#12 x 7	23A
	28-22	#16 x 3 #4 x 3	13A 80A
	28-A9	#16 x 5 #4 x 4	13A 80A
	28-12	#16 x 26	13A
	28-15	#16 x 35	13A
	28-16	#16 x 20	13A
	28-21	#16 x 37	13A
	32-73	#16 x 46	13A
	36-7	#16 x 40 #12 x 7	13A 23A
	32-22	#16 x 54	13A

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Models		Contacts Size x Qty.	Rated Current
① ②	④		
BMS/TMS 3106, BMS/TMS 3108, BMS/TMS 3102, BMS/TMS 3100, BMS/TMS 3101, BMS/TMS 3406, BMS/TMS 3408, BMS/TMS 3402, BMS/TMS 3400, BMS/TMS 3401	32-25	#12 x 25	23A
	36-52	#16 x 52	13A
	40-56	#16 x 85	13A
	40-A100	#18 x 100	7.5A

Table 3

Models		Degree of protection
① ②	⑦	
BMS/TMS 3106, BMS/TMS 3108, BMS/TMS 3100, BMS/TMS 3101, BMS/TMS 3406, BMS/TMS 3408, BMS/TMS 3400, BMS/TMS 3401	14A, 16A, 18A, 20A, 22A, 24A, 28A, 32A, 36A, 40A	IP20 (when mated, wired according to DS.)
	VG7, VG9, VG11, VG13.5, VG16, VG21, VG29, VG36, NG7, NG9, NG11, NG13.5, NG16, NG21, NG29, NG36 AG7, AG9, AG11, AG13.5, AG16, AG21, AG29, AG36, M20, M25, M32, M40	IP67 (when mated, wired and mounted according to DS.)
BMS/TMS 3102, BMS/TMS 3100, BMS/TMS 3400, BMS/TMS 3402,	blank	IP67 (when mated and mounted according to DS.)