

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

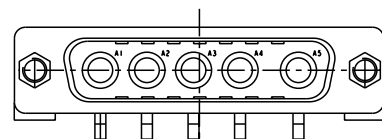
- Female screw : 0.5 N.m minimum

PRESS FIT PERFORMANCES

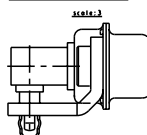
PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N
Average insertion 160N	
EXTRACTION FORCE	>= 30 N

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- Termination plating spec:
 - Ni 1.27µm+Sn 0.5 to 1.5µ(pure bright)
- Active area plating spec:
 - Ni + Gold
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920



DETAIL OF PRESS FIT



5W5 FOR EXAMPLE

DBL5W5P81C6M40LF

Series

Shell size: **E A B C**
(see sheet 3)

Front accessory definition
(see sheet 2)

blank: without accessory

L : threaded insert M3

O : threaded insert UNC 4-40

V : female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts

P : Pin

Termination type

81C Right angle/Europe standard

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition(see sheet 2)

M Metal brackets

A Without accessory

Power contacts

40 : Fitted with power contacts 40 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

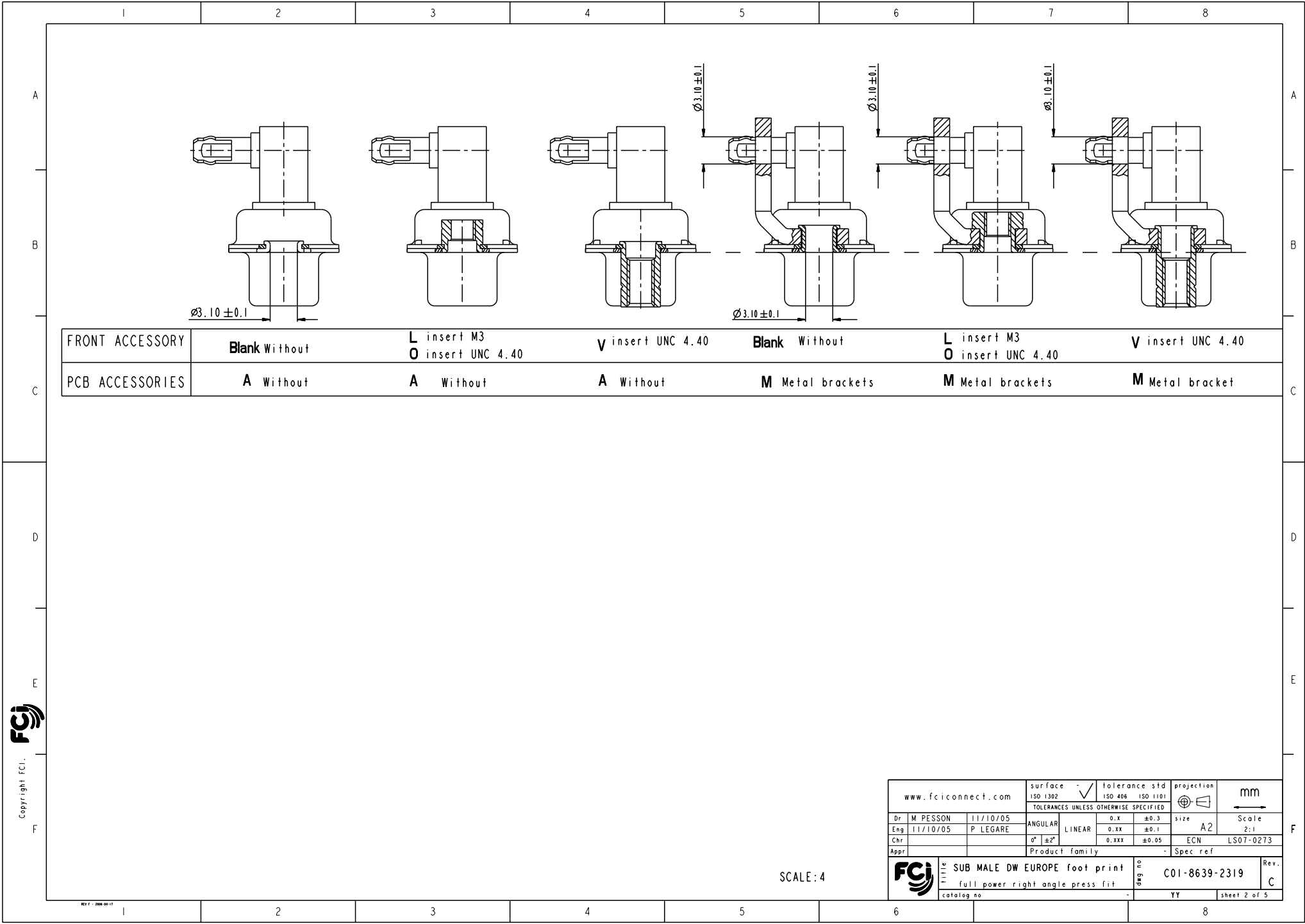
P.C.B HOLE DEFINITION	DRILL DIAMETER	SnPb holes for CONTACTS	Sn holes for CONTACTS	holes ACCESSORIES
	Ø3.22 REF(NOTE 3)	Ø3.22 REF(NOTE 3)	Ø3.22 REF(NOTE 3)	
	DRILLED HOLE	Ø3.19-3.25	Ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	25µ MINI (RECOMMENDED 50µ MAXI)	
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)		
(NOTE-1 AND 2)	TIN PLATING		0.8 tol, 2µ	Ø3.10±0.10
	FINISH HOLE (AFTER REFLOW)	Ø 3.02-3.20	Ø3.08-3.20	

NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

www.fciconnect.com				surface ☒ ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 	
				TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr		M PESSON		11/10/05		ANGULAR		0.X		±0.3	
Eng		11/10/05		P LEGARE		LINEAR		0.XX		±0.1	
Chr						0° ±2°		0.XXX		±0.05	
Appr						Product family				ECN LS07-0273	
										- Spec ref	
B		LS06-0208		LGO		2006/12/13				size A2	
C		LS07-0273		NPE		2007/11/05				Scale 2:1	
										ECN LS07-0273	



SCALE: 4

www.fciconnect.com			surface - ☒ tolerance std ISO 1302 ISO 406 ISO 1101			projection 		mm 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	11/10/05	ANGULAR	LINEAR	0.X	±0.3	size	A2	Scale	
Eng	11/10/05	P LEGARE			0.XX	±0.1			2:1	
Chr			0° ±2°		0.XXX	±0.05	ECN	LS07-0273		
Appr			Product family			- Spec ref				
			SUB MALE DW EUROPE foot print				deg no		C01-8639-2319	Rev.
			full power right angle press fit				YY		C	
catalog no			-					sheet 2 of 5		

I		2		3		4		5		6		7		8	
A															
B															
C															
D															
E															
F															

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP81C5A40LF	40	200	without	without
D*LxWxP81C5A40LF	40	200	insert M3	without
D*OxWxP81C5A40LF	40	200	insert UNC 4.40	without
D*VxWxP81C5A40LF	40	200	female screw UNC 4.40	without
D*xWxP81C5M40LF	40	200	without	metal bracket
D*LxWxP81C5M40LF	40	200	insert M3	metal bracket
D*OxWxP81C5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP81C5M40LF	40	200	female screw UNC 4.40	metal bracket

shell size

#

E

A

A

B

C

LAYOUTS

xWx

2V2

3V3

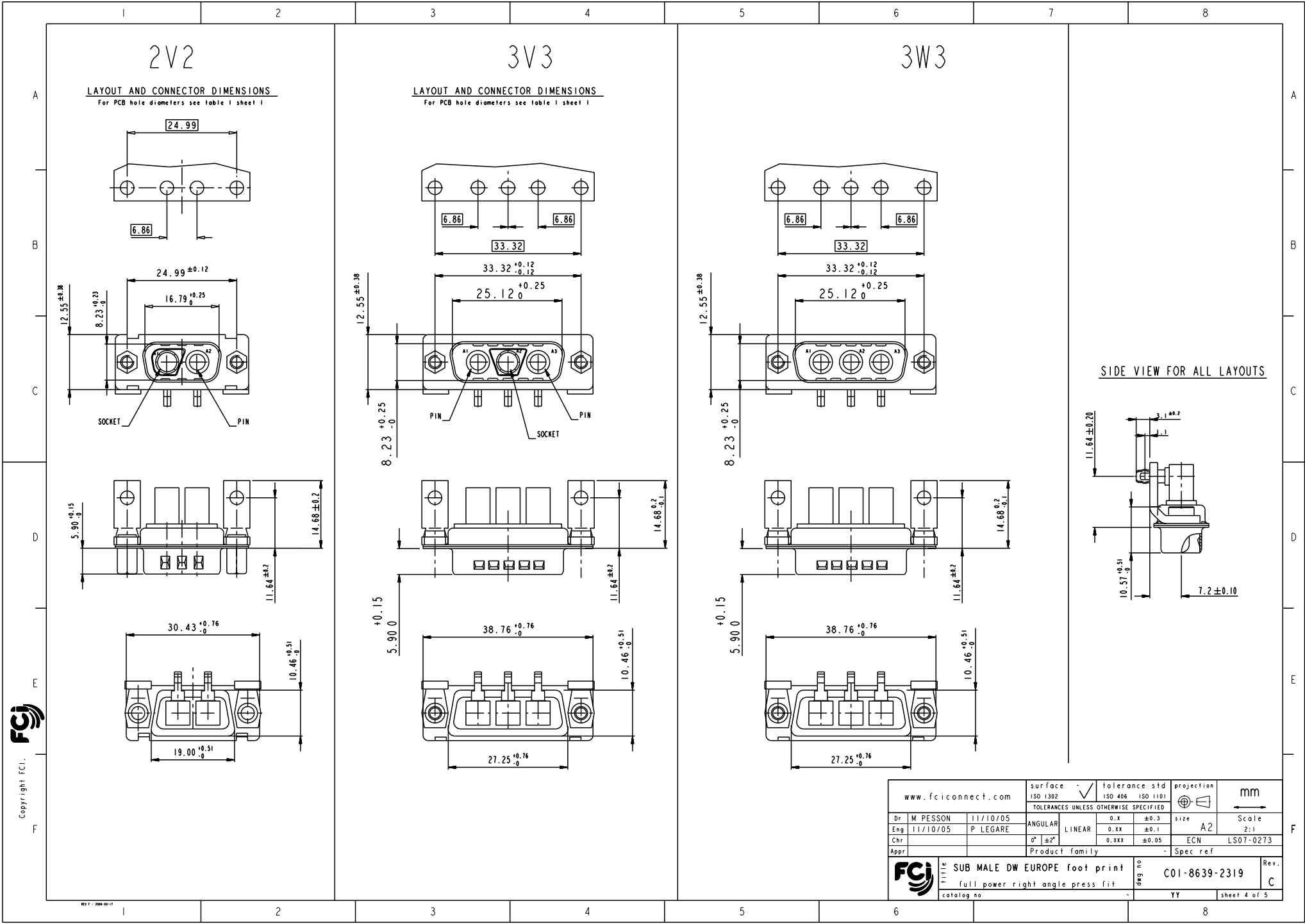
3W3

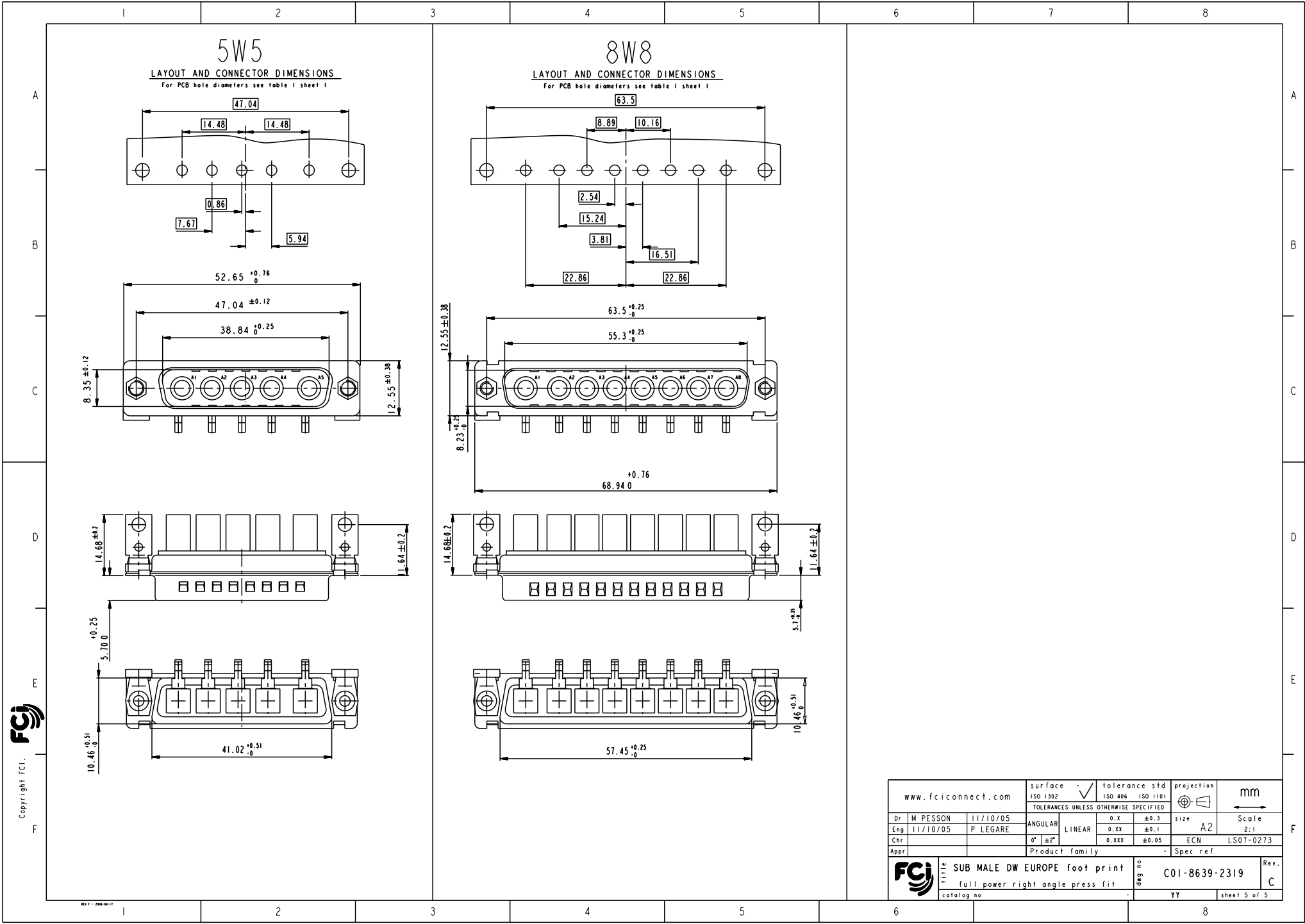
5W5

8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP81C6A40LF	40	500	without	without
D*LxWxP81C6A40LF	40	500	insert M3	without
D*OxWxP81C6A40LF	40	500	insert UNC 4.40	without
D*VxWxP81C6A40LF	40	500	female screw UNC 4.40	without
D*xWxP81C6M40LF	40	500	without	metal bracket
D*LxWxP81C6M40LF	40	500	insert M3	metal bracket
D*OxWxP81C6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP81C6M40LF	40	500	female screw UNC 4.40	metal bracket

www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	11/10/05	ANGULAR	0.X ±0.3	size A2
Eng	11/10/05	P LEGARE	LINEAR	0.XX ±0.1	Scale 2:1
Chr			0° ±2°	0.XXX ±0.05	ECN LS07-0273
Appr			Product family	-	Spec ref
FCi		SUB MALE DW EUROPE foot print		deg no	Rev.
		full power right angle press fit		C01-8639-2319	C
		catalog no	-	YY	sheet 3 of 5





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www.fciconnect.com			surface - ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection 		mm 				
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	11/10/05	ANGULAR	LINEAR	0.X	± 0.3	size A2	Scale 2:1			
Eng	11/10/05	P LEGARE			0.XX	± 0.1					
Chr					0° $\pm 2^\circ$	0.XXX			± 0.05		
Appr			Product family				ECN LS07-0273				
			Product family				Spec ref				
FCi							SUB MALE DW EUROPE foot print		cat no	C01-8639-2319	Rev. C
							full power right angle press fit				
			catalog no	-	YY	sheet 5 of 5					