

-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	$\leq 200 \text{ N}$ Average insertion 160N
EXTRACTION FORCE	$\geq 30 \text{ N}$

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

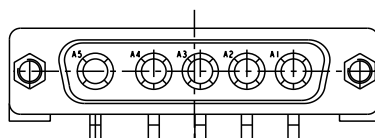
TABLE 1: PCB HOLE DIAMETERS

HOLE 1:PCB HOLE DIAMETERS		SnPb holes for CONTACTS	Sn holes for CONTACTS	holes ACCESSORIES
P.C.B HOLE DEFINITION	DRILL DIAMETER	ø3.22 REF(NOTE 3)	ø3.22 REF(NOTE 3)	ø3.10±0.10
	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)		
	TIN PLATING		0.8 tol, 2μ	
(NOTE-1 AND 2)	FINISH HOLE (AFTER REFLOW)	ø 3.02-3.20	ø3.08-3.20	

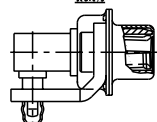
NOTE-1: THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

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

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE



DETAIL OF PRESS FIT
scale: 3



5W5 FOR EXAMPLE

DBL5W5S81C6M40LF

Series

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

Front accessory definition
(see sheet 2)

blank: without accessory

L : threaded insert M3

0 : threaded insert UNC 4-40

V : female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts

S : Socket

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

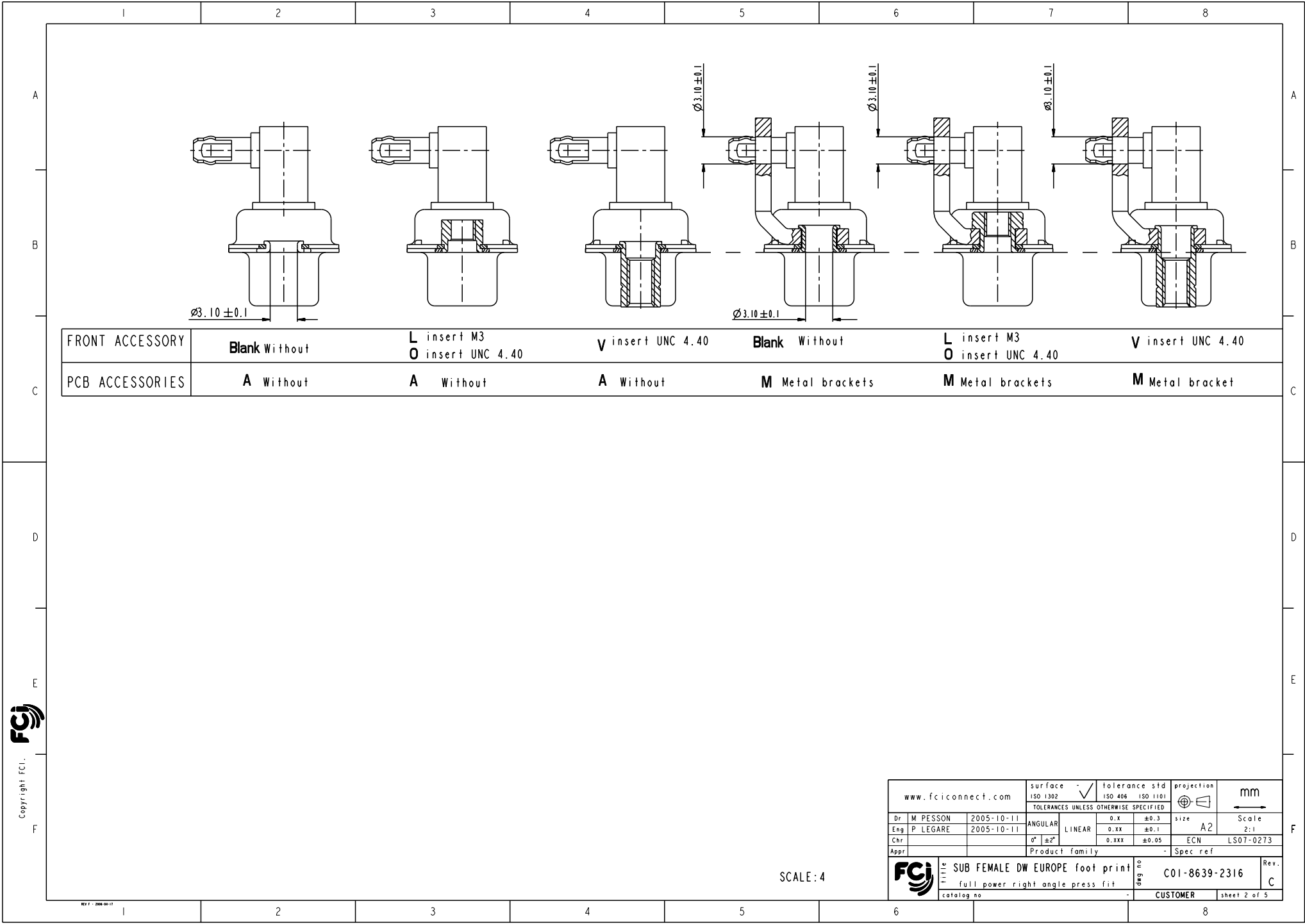
A Without accessory

Power contacts —

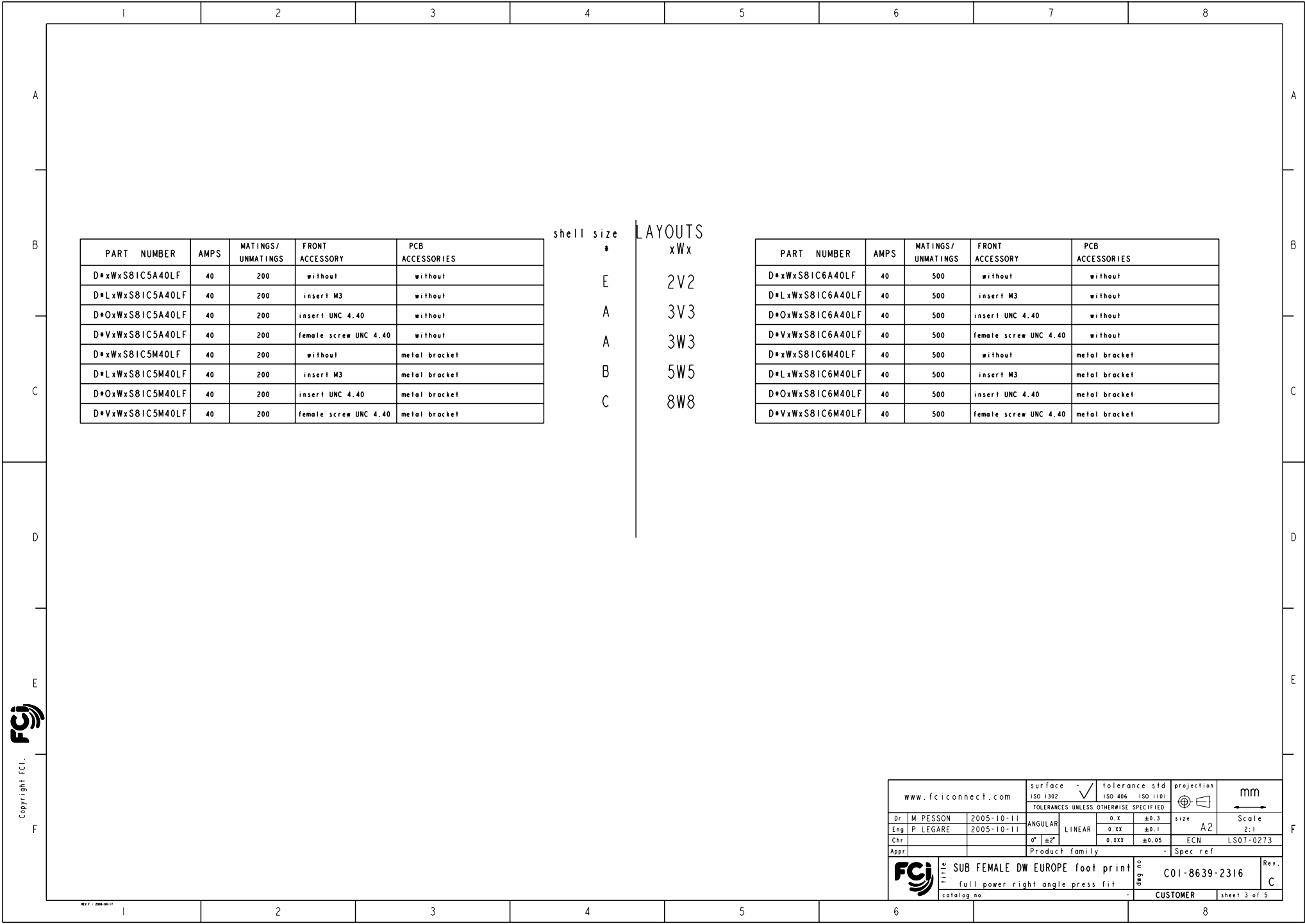
40 : Fitted with power contacts 40 Amp.

rev	ecn no	dr	date
A	LS05-0113	MPE	2005-10-1
B	LS06-0208	LGO	2006-12-1
C	LS07-0273	MPE	2007/11/0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface - ☒ tolerance std ISO 1302 ISO 406 ISO 1101		projection  mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	0.X ± 0.3	size	Scale
Eng	P LEGRÉ	2005-10-11	LINEAR	0.XX ± 0.1	A2	2:1
Chr			0° $\pm 2^\circ$	0.XXX ± 0.05	ECN	LS07-0273
Appr			Product family		- Spec ref	
			title SUB FEMALE DW EUROPE foot print full power right angle press fit catlon no. -		COI-8639-2316 CUSTOMER	
					Rev. C sheet 1 of 5	



www.fciconnect.com		surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size	A2	Scale
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1			2:1
Chr			0° ±2°	0.XXX	±0.05	ECN	LS07-0273	
Appr			Product family		Spec ref			
FCI		SUB FEMALE DW EUROPE foot print		C01-8639-2316		Rev.		
		full power right angle press fit		C				
		catalog no		CUSTOMER		sheet 2 of 5		



PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS8IC5A40LF	40	200	without	without
D*LxWxS8IC5A40LF	40	200	insert M3	without
D*OxWxS8IC5A40LF	40	200	insert UNC 4.40	without
D*VxWxS8IC5A40LF	40	200	female screw UNC 4.40	without
D*xWxS8IC5M40LF	40	200	without	metal bracket
D*LxWxS8IC5M40LF	40	200	insert M3	metal bracket
D*OxWxS8IC5M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxS8IC5M40LF	40	200	female screw UNC 4.40	metal bracket

shell size

E
A
A
B
C

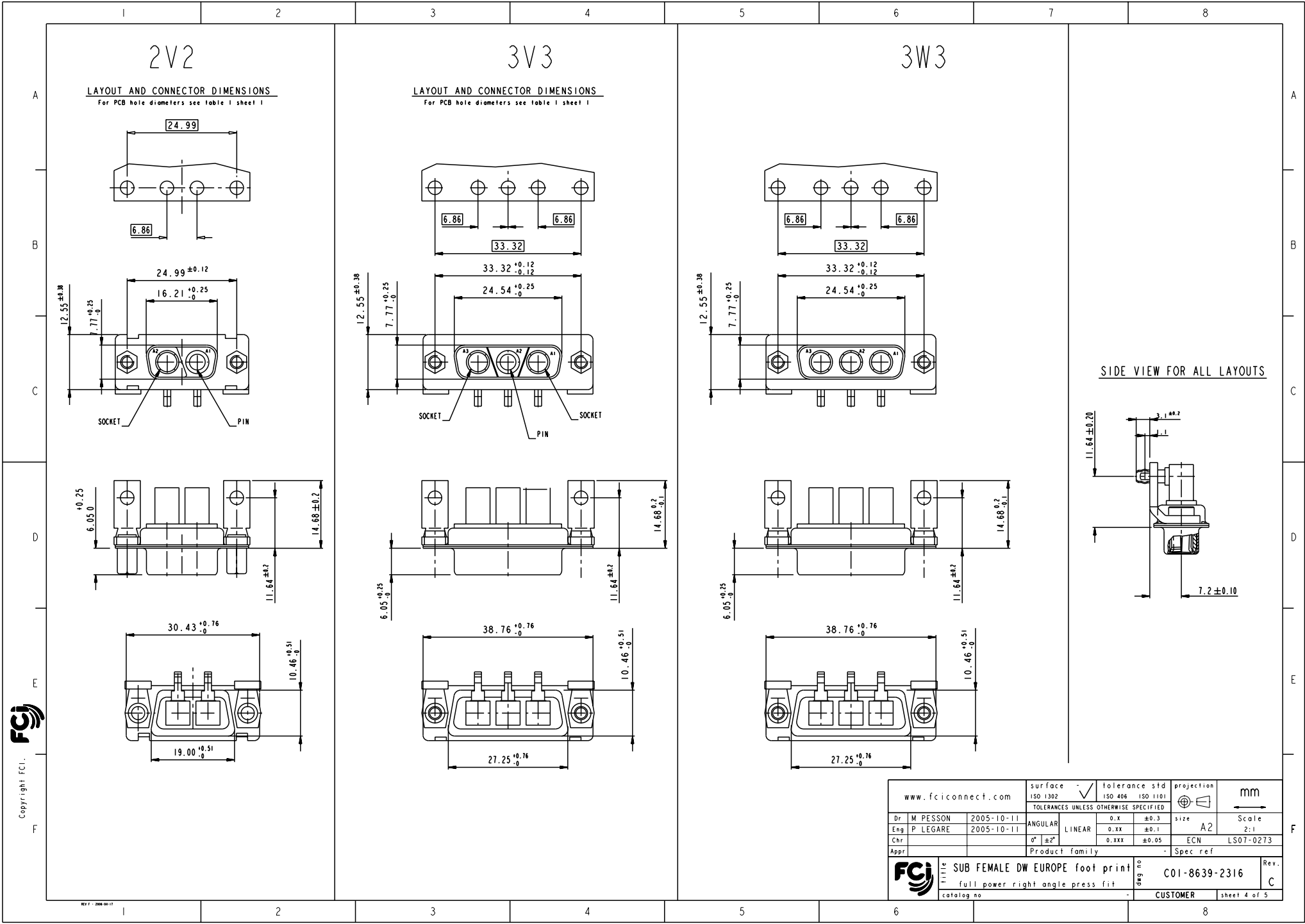
LAYOUTS
xWx
2V2
3V3
3W3
5W5
8W8

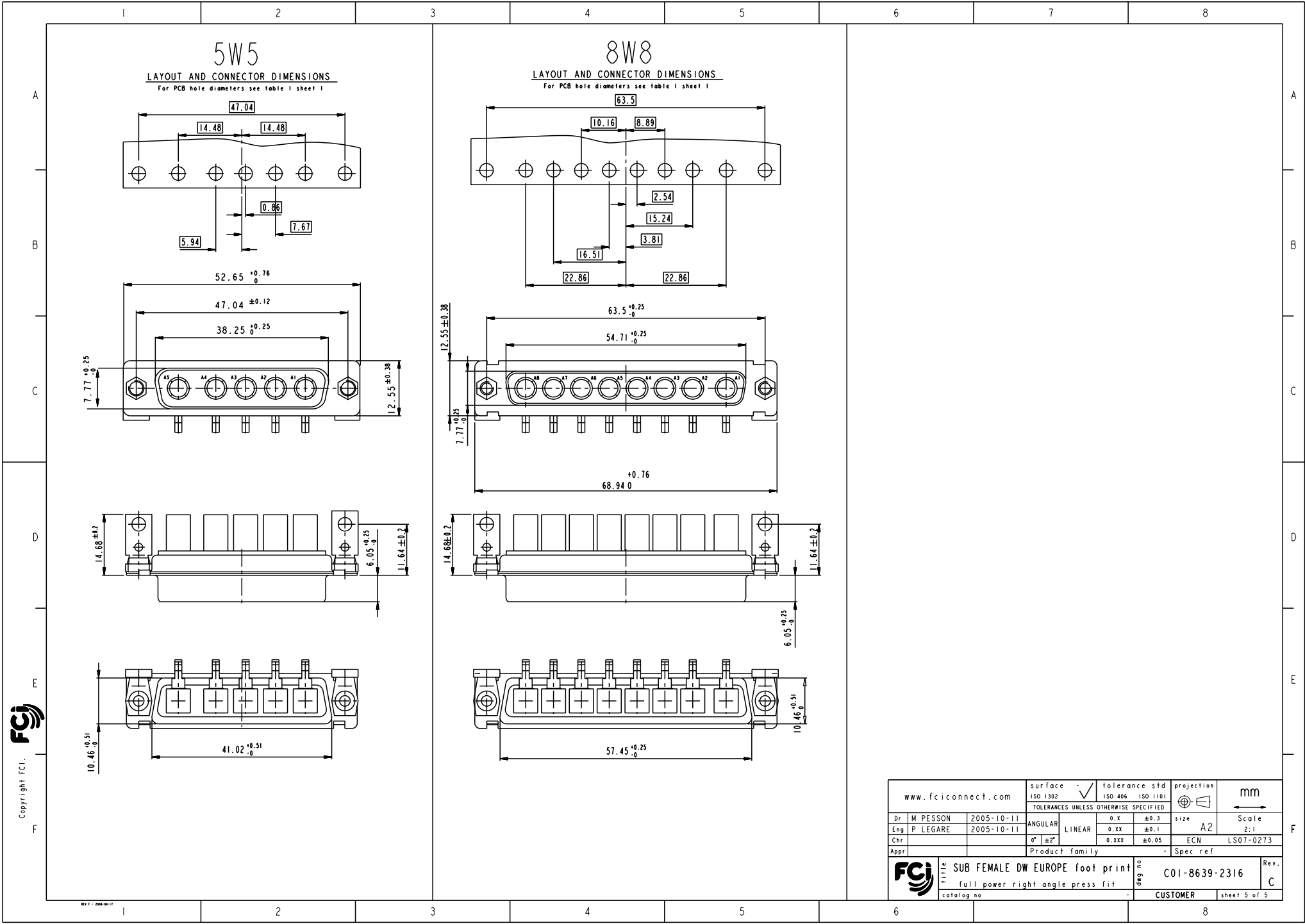
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS8IC6A40LF	40	500	without	without
D*LxWxS8IC6A40LF	40	500	insert M3	without
D*OxWxS8IC6A40LF	40	500	insert UNC 4.40	without
D*VxWxS8IC6A40LF	40	500	female screw UNC 4.40	without
D*xWxS8IC6M40LF	40	500	without	metal bracket
D*LxWxS8IC6M40LF	40	500	insert M3	metal bracket
D*OxWxS8IC6M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxS8IC6M40LF	40	500	female screw UNC 4.40	metal bracket



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www.fciconnect.com		surface ISO 1302	-	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	0.X ±0.3	size A2
Eng	P LEGARE	2005-10-11	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 FEMALE DW EUROPE foot print		dag no	Rev.
		full power right angle press fit		C01-8639-2316	C
		catalog no	-	CUSTOMER	sheet 3 of 5





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www.fciconnect.com		surface	ISO 1302	tolerance std	ISO 406	ISO 1101	projection	mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED					size	Scale
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3		A2	2:1
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1		ECN	LS07-0273
Chr			0° ±2°	0.XXX	±0.05		Spec ref	
Appr			Product family					
FCI		SUB FEMALE DW EUROPE foot print		full power right angle press fit		dwg no	C01-8639-2316	Rev.
		catalog no				CUSTOMER		sheet 5 of 5