



REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASE NEW DWG FORMAT	Jul.15,2014	Tod	Tommy
B2	-	UPDATE THE DURABILITY	Jun.27,2015	Drack	Tommy
B3	-	UPDATED	04DEC15	MRF	Tommy

-	MA1RAS1901	M23, RECP, R/A, ROT, 19POS, P TYPE, KEYED "S"	27
-	MA1RAR1901	M23, RECP, R/A, ROT, 19POS, P TYPE, KEYED "R"	26
-	MA1RAP1901	M23, RECP, R/A, ROT, 19POS, P TYPE	25
-	MA1RAG1901	M23, RECP, R/A, ROT, 19POS, E TYPE, KEYED "G"	24
-	MA1RAF1901	M23, RECP, R/A, ROT, 19POS, E TYPE, KEYED "F"	23
-	MA1RAE1901	M23, RECP, R/A, ROT, 19POS, E TYPE	22
-	MA1RAS1701	M23, RECP, R/A, ROT, 17POS, P TYPE, KEYED "S"	21
-	MA1RAR1701	M23, RECP, R/A, ROT, 17POS, P TYPE, KEYED "R"	20
-	MA1RAP1701	M23, RECP, R/A, ROT, 17POS, P TYPE	19
-	MA1RAG1701	M23, RECP, R/A, ROT, 17POS, E TYPE, KEYED "G"	18
-	MA1RAF1701	M23, RECP, R/A, ROT, 17POS, E TYPE, KEYED "F"	17
-	MA1RAE1701	M23, RECP, R/A, ROT, 17POS, E TYPE	16
-	MA1RAS1601	M23, RECP, R/A, ROT, 16POS, P TYPE, KEYED "S"	15
-	MA1RAR1601	M23, RECP, R/A, ROT, 16POS, P TYPE, KEYED "R"	14
-	MA1RAP1601	M23, RECP, R/A, ROT, 16POS, P TYPE	13
-	MA1RAG1601	M23, RECP, R/A, ROT, 16POS, E TYPE, KEYED "G"	12
-	MA1RAF1601	M23, RECP, R/A, ROT, 16POS, E TYPE, KEYED "F"	11
-	MA1RAE1601	M23, RECP, R/A, ROT, 16POS, E TYPE	10
-	MA1RAS1201	M23, RECP, R/A, ROT, 12POS, P TYPE, KEYED "S"	9
-	MA1RAR1201	M23, RECP, R/A, ROT, 12POS, P TYPE, KEYED "R"	8
-	MA1RAP1201	M23, RECP, R/A, ROT, 12POS, P TYPE	7
-	MA1RAG1201	M23, RECP, R/A, ROT, 12POS, E TYPE, KEYED "G"	6
-	MA1RAF1201	M23, RECP, R/A, ROT, 12POS, E TYPE, KEYED "F"	5
-	MA1RAE1201	M23, RECP, R/A, ROT, 12POS, E TYPE	4
-	MA1RAS1201	M23, RECP, R/A, ROT, 12POS, P TYPE, KEYED "S"	3
-	MA1RAR1201	M23, RECP, R/A, ROT, 12POS, P TYPE, KEYED "R"	2
-	MA1RAP1201	M23, RECP, R/A, ROT, 12POS, P TYPE	1
-	MA1RAG1201	M23, RECP, R/A, ROT, 12POS, E TYPE, KEYED "G"	
-	MA1RAF1201	M23, RECP, R/A, ROT, 12POS, E TYPE, KEYED "F"	
-	MA1RAE1201	M23, RECP, R/A, ROT, 12POS, E TYPE	

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
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MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED		SIGNATURES	DATE
1) All dimensions are in metric(mm).		DRAWN: Drack	Jun.27,2015
2) Tolerances are as follows:		CHECKED:	
1 PL DEC ±0.30		ENGINEER:	
2 PL DEC ±0.15		APPROVAL:	
3 PL DEC ±0.08		CUSTOMER:	
Fractions ±1/64		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.	
Angles ±1°		MATERIAL SPECIFICATIONS:	
3) Note reference =		PROCESS SPECIFICATIONS:	
MATERIAL SPECIFICATIONS:		NEXT ASSY:	
SIGNATURES		DATE	
DATE		SIZE	
DATE		TYPE	
DATE		DWG NO:	
DATE		REVISION	
DATE		B C-	
DATE		MA1Rxxx01	
DATE		B3	
DATE		SCALE: NONE	
DATE		C-MA1Rxxx01	
DATE		SHEET 1 OF 1	

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
INSULATION INSERT: PA66,UL94 V0  
SEAL: VITON  
HOUSING BODY: ZINC DIE CAST, NICKEL PLATED

- SPECIFICATIONS:  
2.1 CURRENT RATING: 10 AMPS - 12 POSITION  
9 AMPS - 16 POSITION  
9 AMPS - 17 POSITION  
7 AMPS - 19 POSITION

- VOLTAGE RATING: 160V AC/DC - 12 POSITION  
125V AC/DC - 16 POSITION  
125V AC/DC - 17 POSITION  
63V AC/DC - 19 POSITION

- OPERATING TEMPERATURE: -20°C TO +130°C
- DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 2500 VOLTS AC.
- DEGREE OF PROTECTION: IP67 ( MATED CONDITION )
- DEGREE OF POLLUTION: 3 PER UL840
- OVERVOLTAGE CATEGORY: III PER UL840
- MATING CYCLE DURABILITY: >500 CYCLES
- RoHS COMPLIANT

- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

TITLE: M23 RECEPTACLE, ANGLED, ROTATABLE, THREADED  
DWG NO: MA1Rxxx01  
REV: B3  
SH: 1  
OF: 1