-							
		2	3		4	5 Recommended configuration of plated	6
	A HARTING har-bus	® HM fe	male connec	tor	RoHS, compliant	In addition to the hot-air-level (HAL important. Due to their different pro	, other PCB surfaces are getting more perties – such as mechanical strength and
	General information	:		:		coefficient of friction – we recomment through holes.	d the following configuration of PCB
		IEC 6107	drilled hole Ø				
	Design No. of contacts	55 - 22		<u>Cu min. 25µm</u>			
	Contact spacing						
	Test voltage	750V A0					
	Contact resistance	max. 201	—				
	B Insulation resistance	min. 10 ¹⁰				—	
	Working current	1A at 7		ı diaoram)		finished hole \emptyset	
	Temperature range	-55°C	plating (e.g	Sn)			
	Termination technology	press-ir		11			
	Clearance & creepage distance	0,6 mm	each for free connector				
-		insertio	Assembly instructions				
	Insertion and withdrawal force	withdraw	It is highly recommended to use HARTING press-in tools to ensure a reliable				
	Mating cycles	acc. to	information about the press-in proce	SS.			
	UL file						
	RoHS – compliant	Yes	Circuit density				
	C Leadfree	Yes	When using the specified diameter of	the finished through hele percending			
			to IEC 61 076-4-101 (0.6 ± 0.05mm) w	th an appropriate annular ring, the			
	Insulator material		remaining distance between the rings	is about 1mm.			
						Under the condition that the width o	f the track and the space between
	Material		ermoplastics, glass fiber reinfo	rcement 30%)		should be equal, two tracks of 0.2mr width can be placed between two rin	n width or three tracks of 0.14mm ns
F	Colour	RAL 703		-			
	UL classification	UL 94-V	Typical designs are shown in the dra	wing on the right side.			
	Material group acc. to IEC 60664-1						
	NFF classification	13, F4					
					- <u>-</u>	_	
	D Contact material		.			Derating diagram acc. to IEC 60512-5	(Current carrying capacity)
	Contract material	C	The current carrying capacity				
	Contact material Treatment contact zone	Copper Bellcore	temperature of materials for				
	Plating press-in zone	Ni	terminals.	-			
	Plating contact zone	acc. to	— The current capacity curve is interrupted current loaded correction	valid for continuous, non			
				tacts is given, without exceeding			
						the maximum temperature.	· · · · · · · · · · · · · · · · · · ·
		ma	Control and test procedures a	ICCORDING TO DIN IEL 60512-5			
	E performance level	acc. to IEC 61076-4-101	complementary acc. to IEC 61076–4–101	plating contact zone			
						Curve 1 shows raise in temperature	
	1	500		Au ov	ar Ni	Curve 2 shows nominal deratir Curve 3 shows reduced values	
	$\frac{1}{2}$	250		Au ove			
	NM30 (S4)	250	500	min. 0,76µm (30µinch) nob		—	
	Au30		500	min. 0,76µm (30µir		All Dimensions in m	
	Au50		500	min. 1,27µm (50µir		- Original Size DIN A	3 1:1
		lating ontions hig	I	ting options are available on re		All rights reserved	Created by Inspected by
		praining options my	naginea în <i>Malie</i> , villei pla	יוויש טאווטווז מוב מזמונמטנפ טוו דפו	10001.	Department EC PD - DE	STORCK LEHNERT
	_		EL PU - DE	Title har-bus® HM female			
			HARTING Electronics GmbH				
						D-32339 Espelkamp	Type DS Number 17002
		2			,		
	1 1	/	√		h .	5 1	Б І

	7		8	-
n				
		Drilled hole ${\mathscr O}$	0,7±0,02 mm	A
and	Tin plated PCB (HAL) acc. to EN 60352-5	Sn	max. 15 µm	
		plated hole Ø	0,60 - 0,65 mm	
	Chemical tin plated	Drilled hole Ø	0,7±0,02 mm	
	PCB -	Sn plated hole Ø	min. 0,8µm 0,60 - 0,65 mm	
		Drilled hole Ø	0,7±0,02 mm	
	Gold /Nickel plated	Ni	3 - 7 µm	
	PCB	Au	0,05 - 0,12 µm	
		plated hole Ø	0,60 - 0,65 mm	
		Drilled hole Ø	0,7±0,02 mm	
	Silver plated PCB	Ag	0,1 - 0,3 µm	B
	Γ	plated hole Ø	0,60 - 0,65 mm	
	Copper plated PCB (OSP)	Drilled hole Ø	0,7±0,02 mm	
	PCB (OSP)	plated hole Ø	0,60 - 0,65 mm	
				-
				C
	<u>0,2mm</u>		2,0	
			<u> </u>	
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		Q Q 0—		
	0,14mm		2,0	
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	3.0			
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	Electrical Load [A]			
	3,0 2,5 2,0 1,5 1,0 0,0 0,0 0,0 0,0 0,0			
	3,0 2,5 2,0 1,5 1,0 0,0 0,0 0,0 0,0 0,0	Tempera Ref.		E
	Biggin and the second s	Tempera Ref. Sub.	ture [°C]	
/	3,0 2,5 2,0 1,5 1,0 1,5 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0	Tempera Ref. Sub. Date	ture [°C] State	
y	Biggin and the second s	Tempera Ref. Sub.	ture [°C] State Final Release	
y	A standardisation HOFFMANN	Tempera Ref. Sub. Date	ture [°C] State Final Release Doc-Key / ECM-Nr. 100580923/UGD/000/B	E
2 COL	Standardisation HOFFMANN	Tempera Ref. Sub. Date	ture [°C] State Final Release Doc-Key / ECM-Nr. 100580923/UGD/000/B 50000135160	E
2 COI	A standardisation HOFFMANN	Tempera Ref. Sub. Date	ture [°C] State Final Release Doc-Key / ECM-Nr. 100580923/UGD/000/B 50000135160	

<u>A</u>3