























Wrodaw University of Technology Master programmes in English at Wrodaw University of Technology
Supply current distortion - IEC555 EN 61000-3-2
<ul> <li>harmonics ( up to 40 harmonic)</li> </ul>
<ul> <li>current fluctuations of load</li> </ul>
•surge current ???
KUMAN CAPTEL     Konne of benefit     Konne of benefit     Konne of benefit     Konne of benefit     Konne of benefit













































































































































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	Power Switch	
IQ = $$	$\sqrt{\frac{1}{6} \cdot \frac{4\sqrt{2} \cdot \operatorname{Vin} \min}{9 \cdot \pi \cdot \operatorname{Vout}}}$	· lcoil_pk
HUMAN CAPITAL	Weadaw University of Technology	score suc















Wrocław University	of Technology at	<b>/laster program</b> r t Wrodaw University c	nes in English f Technology		
Des	ign Table – 1	Fraditional and	Follower Boost		
	Mada Calast	Traditional Depart	Colleman Depart	1	
	Wode Select	Traditional Boost	Follower Boost		
	P <sub>O</sub> (VV)	150	150		
	L <sub>p</sub> (μΗ)	607	200		
	C <sub>O</sub> (μF)	220	330		
	R <sub>CS</sub> (Ω)	0.7	0.7		
	R <sub>OCP</sub> (kΩ)	20	20		
	C <sub>T</sub> (pF)	10000	560		
				1	
4		-			
	HUMAN CAPITAL Weedaw University of Technology BOOL NO				

Wrocław University of Technology	Ma at W	ster programn roclaw University of	nes in Ei Technolo	nglish <sup>gy</sup>		
Measurement Results fo the Traditional Boost	or					
		150 W PFC Front	End - MC3	3260 Tra	ditional B	oost
		Vin (Vac)	85	115	175	265
		Efficiency (%)	87.8	91.6	94.3	96.2
		THD (%)	8.87	11.04	14.8	17.6
		PF (%)	99.49	99.32	98.83	97.61
		Vout (V)	401.5	408.3	414.6	418
Measurement Results fo	r					
the Follower Boost		150 W PFC Front End – MC33260 Follower Boost				
		Vin (Vac)	85	115	175	265
		Efficiency (%)	89.5	92.5	93.7	95.9
		THD (%)	5.95	6.21	10.87	21
		DE (0()	00.76	99.75	99.25	97.37
		PF (%)	99.70			



Wrocław University of Technology	Vlaster programme: at Wroclaw University of Te	s in Englis chnobgy	sh		2
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	Vout (V)	203	276	391	400.7



































Wrocław University	of Technology	Master p at Wrocław	orogram University	mes in E of Technolo	nglish <sup>gy</sup>		
	NCP1651 PFC Circuit Results						
	Vin (Vac)	85	115	230	265	1	
	Pin (W)	153.8	146	140.1	140.3		
	lline(rms)	1.80	1.27	0.63	0.56		
	Vout (V)	11.72	11.78	11.77	11.78		
	lout (A)	10	10	10	10	1	
E	fficiency (%)	76.2	80.7	84.0	84.0	1	
	PF (%)	99.79	99.86	96.70	93.87		
	THD (%)	4.76	4.29	6.4	7.9		
				-		-	
EVALUATE AND							











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TF	ID vs. Output Power
$\begin{array}{c} 20\\ 18\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	5 V 5 V 5 0 5 0 75 100 125 Pout. OUTPUT POWER (W)
	Vorden Linking at Tachnaky



