

Step 2: ASSEMBLY planning and design verification

Temperature rise verification up to 630 A

You may use the table below for a simplified calculation up to 630 A

					Rated current of the equipment I _n	P _{vn}	Derating ¹⁾	Rated current of a circuit I _{nc}	Assumed load factor ²⁾	Assumed operating current I _B	Power loss of a device at I _B	Sum of the power losses
		iurer		5	(A)	(W)		(A)		(A)	(W)	(W)
Position	Number	Manufact	Type	Descriptic						$I_{_{\rm B}} = I_{_{\rm nc}} \cdot$ assumed load factor	$P_{_{B}} = P_{_{VN}} \cdot (I_{_{B}}/$ $I_{_{N}})^{2}$	$P_{_{VB}} = P_{_{B}} \cdot$ number
Sum of the installed power losses												
Wiring power loss (%) ³ 30												
Power loss dissipation of the enclosure												
							Difference	= power loss diss	ipation – sum of th	ne installed power	$loss = P_{vzul} - \sum P_{vB}$	

1) According to IEC 61439-2 Table 101 – Values of assumed loading – depending on the number of equipment used in the same time 2) Manufacturer information for equipment under different conditions, but not less than 0.8 in line with section 10.10.4.2.1

3) The wiring power loss is assumed as percentage of the equipment power losses – proposal: 30 %