

CONTINUOUS DUTY
**4 poles
50 Hz - 1500 rpm / 60 Hz - 1800 rpm**

		40°C	WINDING DATA										Winding code	M0
		H											Winding pitch	12
POWER FACTOR		0,8												2/3
		Hz	50 Hz				60 Hz							
VOLTAGE	Connections Star parallel	V	380	400	415	440	380	416	440	460	480			
			190	200	208	220	190	208	220	230	240			
RATING POWER		kVA	240	250	235	220	250	260	275	290	300			
		kW	192	200	188	176	200	208	220	232	240			
EFFICIENCY [%] @ 0,8 p.f.		4/4	93,0	93,4	93,3	93,3	93,1	93,6	93,7	93,8	93,9			
		3/4	93,4	93,7	93,6	93,5	94,0	94,3	94,4	94,5	94,5			
		2/4	93,6	93,7	93,6	93,5	94,3	94,5	94,5	94,5	94,5			
EFFICIENCY [%] @ 1 p.f.		4/4	94,4	94,8	94,7	94,7	94,5	94,9	95,0	95,1	95,2			
		3/4	94,8	95,0	94,9	94,9	95,2	95,5	95,6	95,6	95,6			
		2/4	94,9	95,0	94,9	94,9	95,5	95,7	95,6	95,7	95,6			
SHORT CIRCUIT RATIO		SCR	0,39	0,42	0,48	0,58	0,32	0,36	0,38	0,40	0,42			
REACTANCES [%]														
Direct axis synchronous	X _d	323	304	265	221	304	351	332	320	304				
Quadrature axis synchronous	X _q	180	169	148	123	225	195	184	178	169				
Direct axis transient	X' _d	26,7	25,1	21,9	18,3	33,4	29,0	27,4	26,4	25,1				
Direct axis subtransient	X'' _d	10,2	9,6	8,4	7,0	12,8	11,1	10,5	10,1	9,6				
Quadrature axis subtransient	X'' _q	12,3	11,6	10,1	8,4	15,4	13,4	12,7	12,2	11,6				
Negative sequence	X ₂	11,3	10,6	9,3	7,7	14,1	12,2	11,6	11,2	10,6				
Zero sequence	X ₀	2,4	2,3	2,0	1,7	3,0	2,6	2,5	2,4	2,3				
TIME CONSTANTS [s]														
Open circuit	T' _{do}											1,25		
Subtransient	T'' _d											0,007		
Armature	T _a											0,009		

MECHANICAL CHARACTERISTICS

D-end bearing/Lubrication	6218 2RS C3 / Prelubricated
N-end bearing/Lubrication	6313 2Z C3 / Prelubricated
Overspeed [r.p.m.]	2250
Inertia (J) [kgm ²]	Refer to B34 construction 2,06
Weight [kg]	Refer to B34 construction 710
Method of cooling	IC01
Cooling air required [m ³ /s] @ 50/60 Hz	0,42 / 0,52
Degree of protection	IP23
Types of construction available	B2 (SAE) - IM B34
Direction of rotation (Standard)	CW

OTHER DATA

Phase resistance [Ω] @ 20 °C - Star series	0,016
Overloads	10% for 1 hour every 12 hours
3-phase short circuit sustained current	≥ 300 % (3 I _n) with auxiliary winding
Voltage regulation accuracy	
Radio interference	EN 55011 - Class B Group 1
Wave form THF	< 2%
Total harmonic content	< 2% - At no load

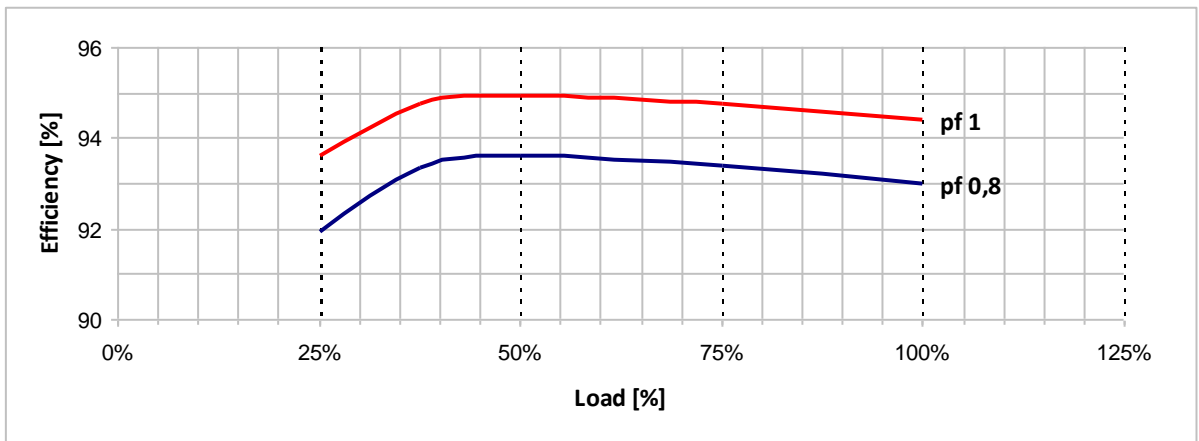
STANDARDS

IEC 60034-1; CEI 2-3; BS 4999-5000; VDE 0530; NF 51-100,111; OVE M-10, NEMA MG 1.22.
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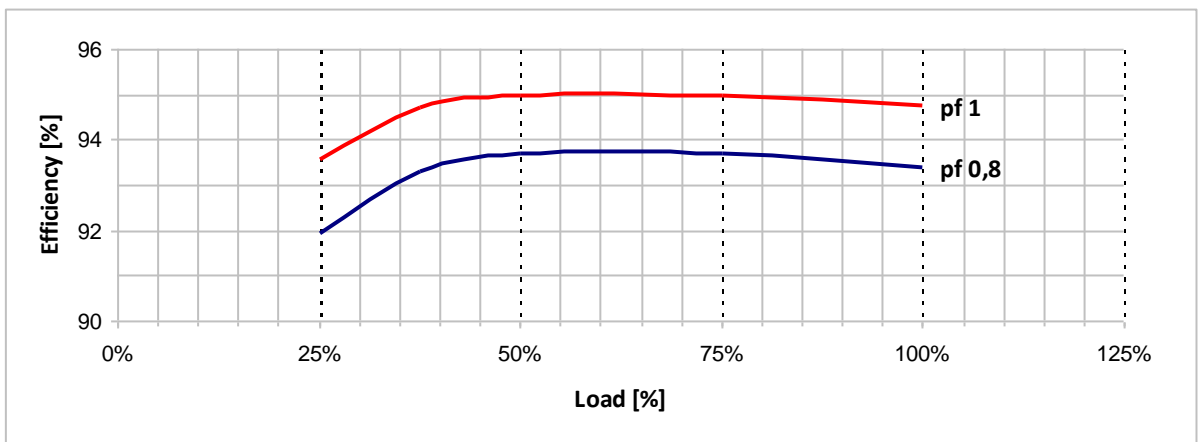
Typical efficiency curves

50 Hz - 1500 rpm

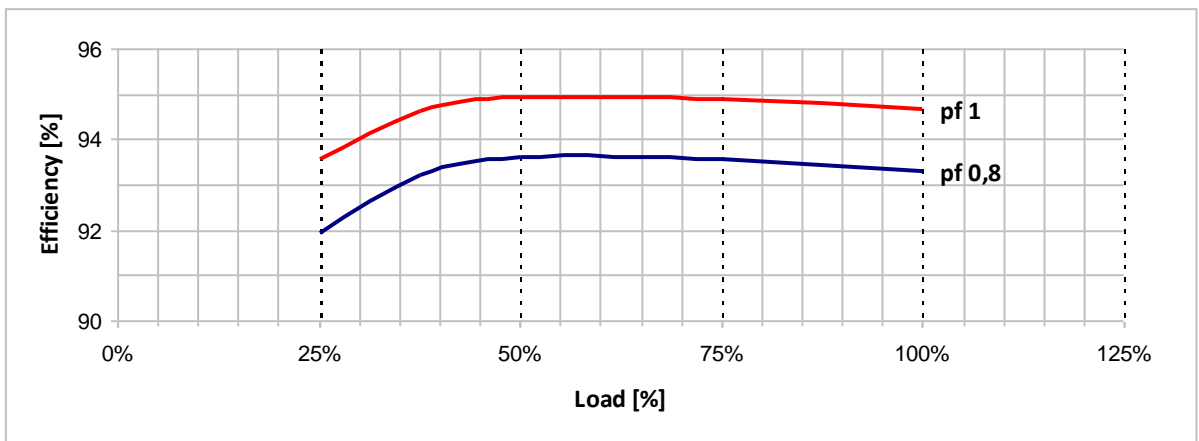
380 V



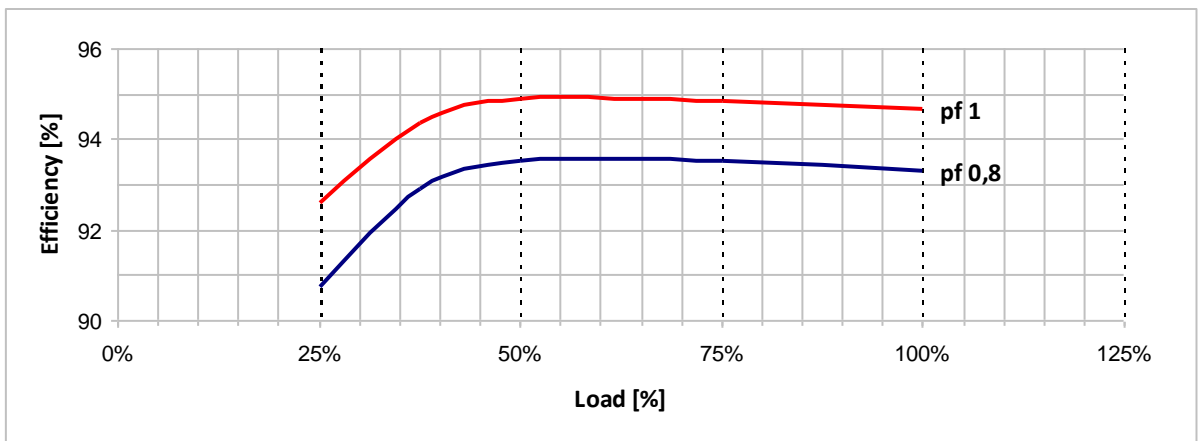
400 V



415 V

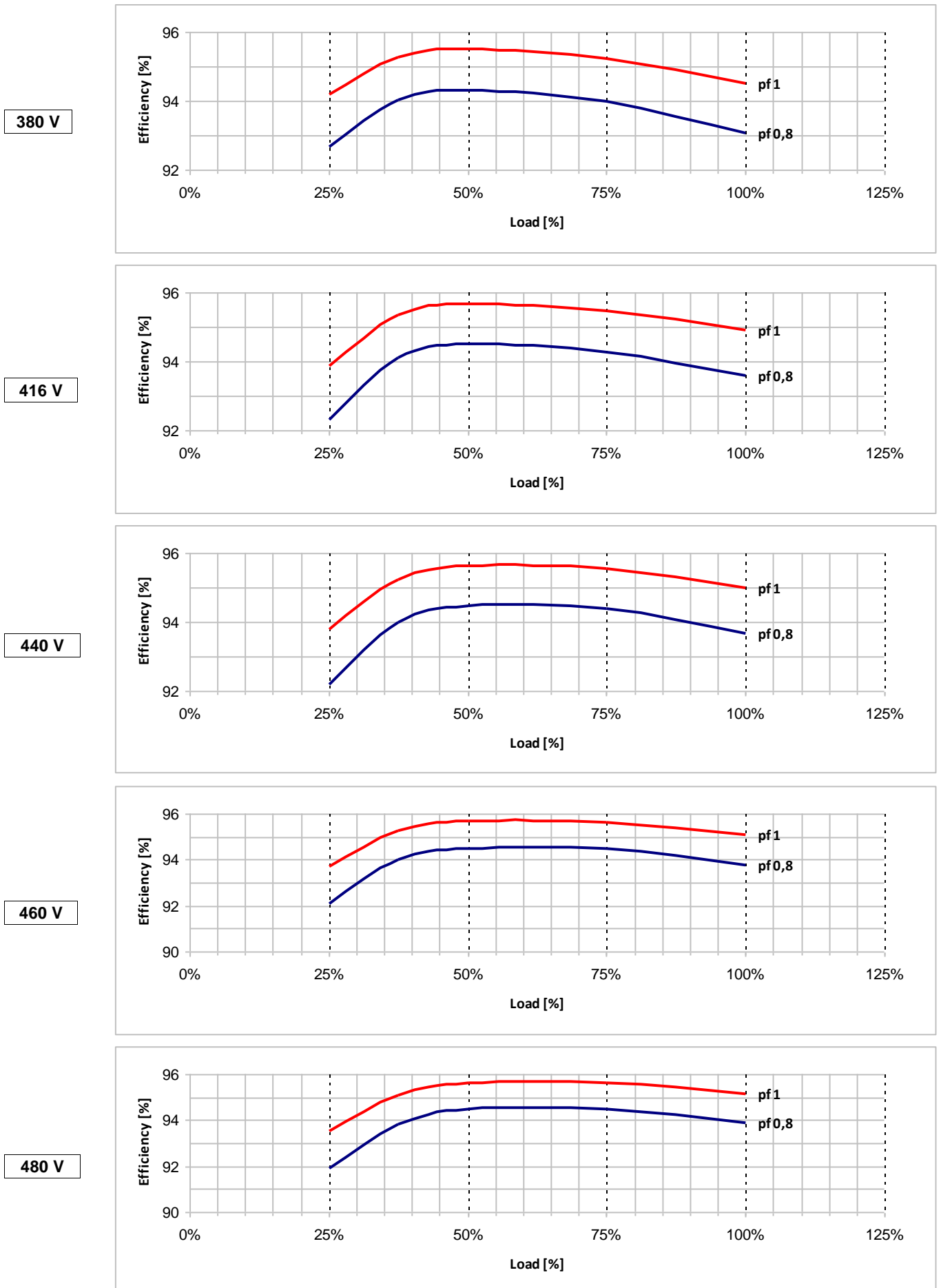


440 V

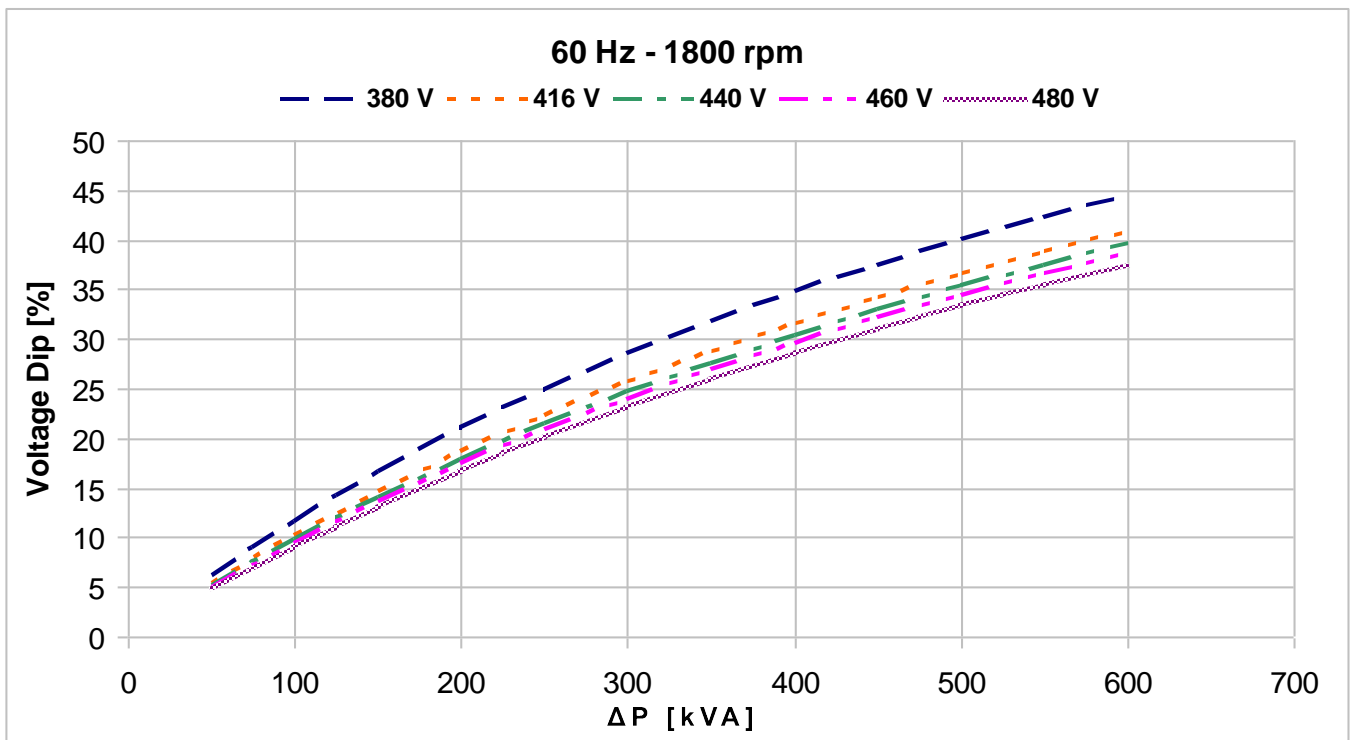
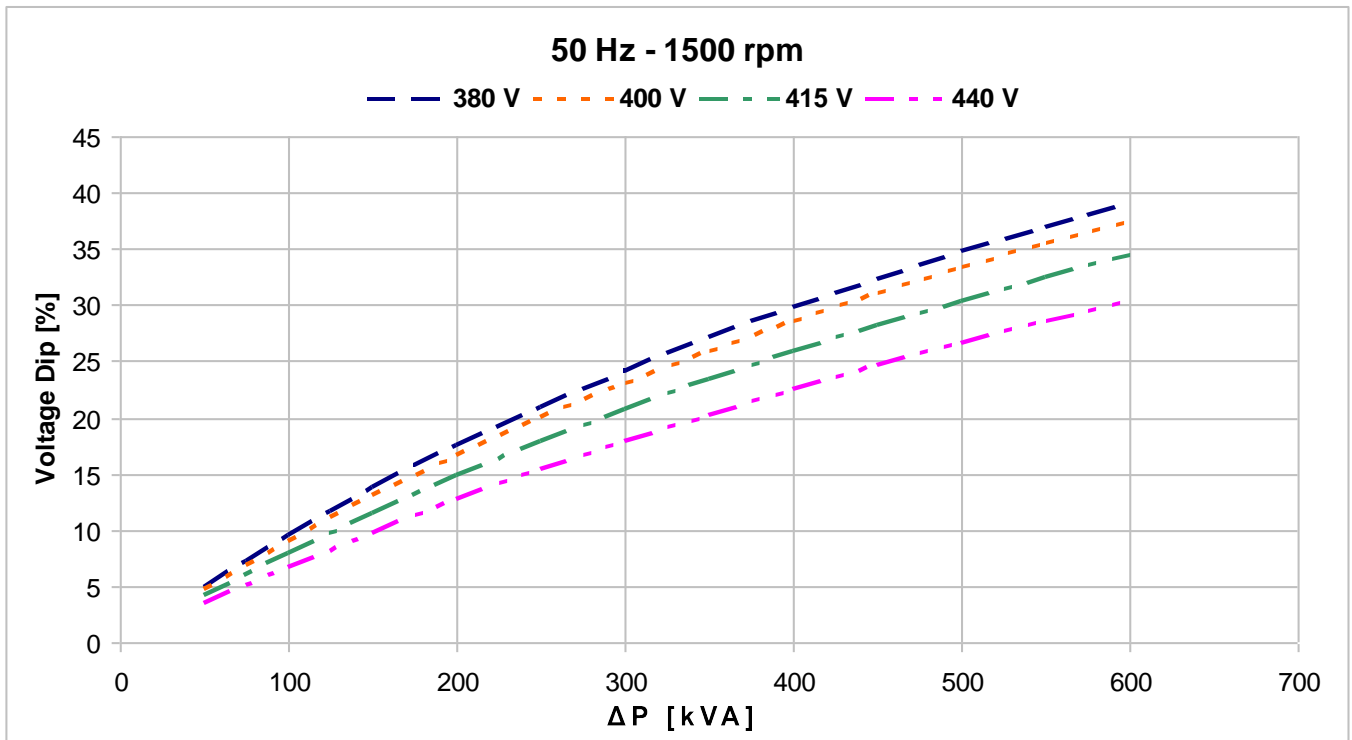


Typical efficiency curves

60 Hz - 1800 rpm



Locked rotor motor starting curves (*)



$$\Delta P = P_n \times \frac{I_s/I_n}{\cos \varphi_n \times \eta_n}$$

(*): A coefficient of 0,85 must be applied to the voltage dip if the load has a power factor equal or greater than 0,8.