

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

AMBIENT TEMPERATURE		40°C	WINDING DATA				Winding code	80		
TEMPERATURE RISE		H					Number of leads	6		
INSULATION CLASS		H					Winding pitch	2/3		
POWER FACTOR		0,8								
FREQUENCY		Hz	50 Hz			60 Hz				
VOLTAGE		Star	V	380	400	415	416	440	460	480
RATING		kVA	3300	3300	3300	3600	3795	3795	3795	
		kW	2640	2640	2640	2880	3036	3036	3036	
EFFICIENCY [%] @ 0,8 p.f.		4/4	96,2	96,4	96,3	96,3	96,5	96,6	96,7	
		3/4	96,3	96,5	96,4	96,4	96,6	96,7	96,8	
		2/4	96,1	96,3	96,2	96,1	96,3	96,4	96,5	
EFFICIENCY [%] @ 1 p.f.		4/4	97,0	97,2	97,1	97,1	97,2	97,3	97,4	
		3/4	97,1	97,2	97,2	97,2	97,3	97,4	97,5	
		2/4	96,9	97,1	97,0	96,9	97,1	97,2	97,3	
SHORT CIRCUIT RATIO		SCR	0,40	0,44	0,47	0,36	0,39	0,42	0,46	
REACTANCES [%]										
Direct axis synchronous		Xd	371	335	311	405	382	350	321	
Quadrature axis synchronous		Xq	208	188	175	228	214	196	180	
Direct axis transient		X'd	36,6	33,0	30,7	39,9	37,6	34,4	31,6	
Direct axis subtransient		X''d	16,1	14,5	13,5	17,5	16,5	15,1	13,9	
Quadrature axis subtransient		X''q	16,6	15,0	13,9	18,2	17,1	15,7	14,4	
Negative sequence		X2	16,4	14,8	13,7	17,9	16,9	15,4	14,2	
Zero sequence		X0	5,4	4,9	4,5	5,9	5,6	5,1	4,7	
TIME CONSTANTS [s]										
Open circuit		T'do				4,86				
Transient		T'd				0,49				
Subtransient		T''d				0,029				
Armature		Ta				0,067				

MECHANICAL CHARACTERISTICS

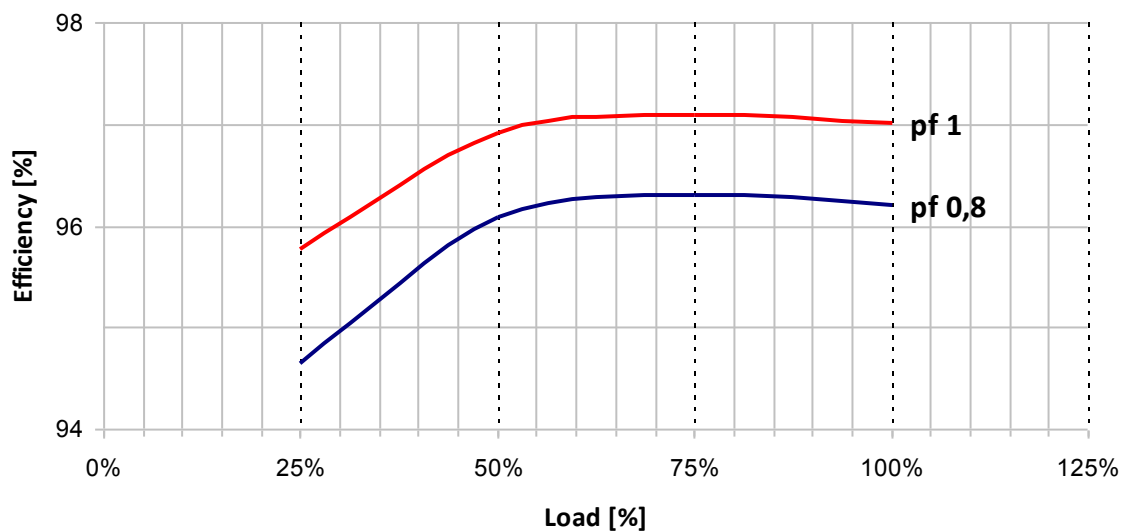
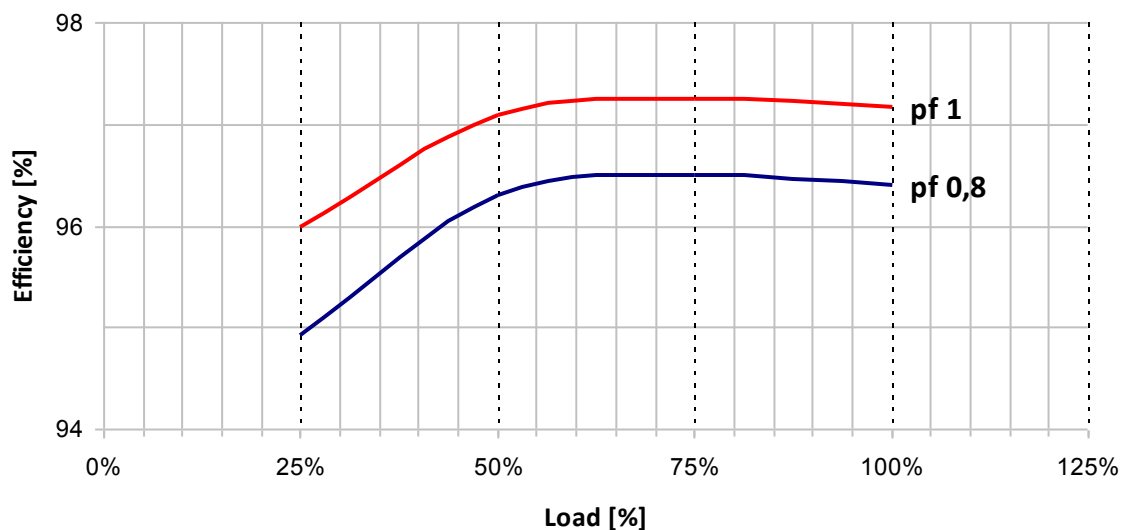
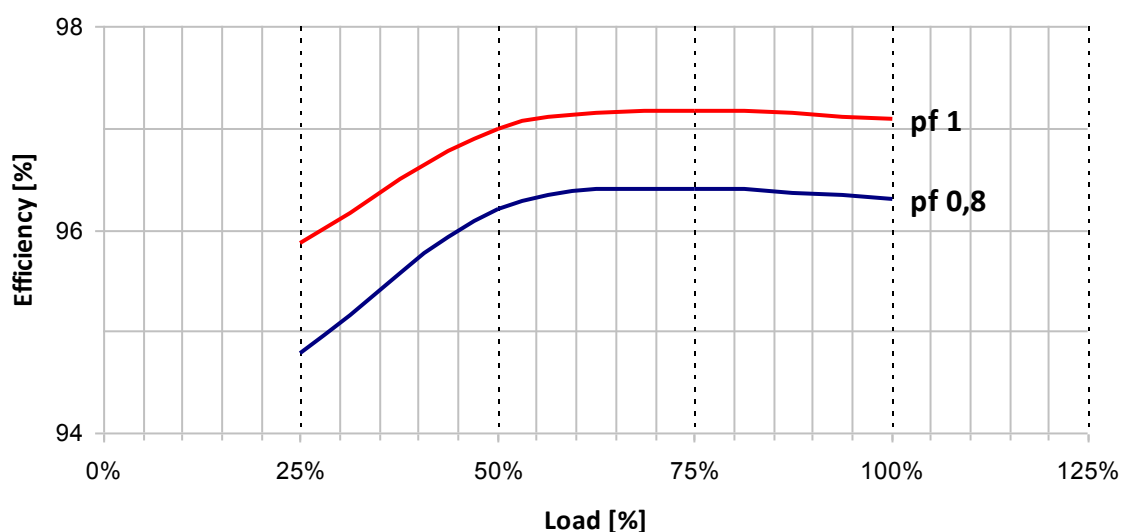
D-end bearing/Lubrication	6324 M C3 / With grease nipple
N-end bearing/Lubrication	6324 M C3 / With grease nipple
Overspeed [r.p.m.]	2250
Inertia (J) [kgm ²]	Refer to B34 construction 140
Weight [kg]	Refer to B34 construction 7000
Method of cooling	IC01
Cooling air required [m ³ /s] @ 50/60 Hz	3,80 / 4,30
Degree of protection	IP23
Types of construction available	B2 (SAE) - IM B34 - IM B20
Direction of rotation (Standard)	CW

OTHER DATA

Phase resistance [Ω] @ 20 °C - Star series	0,14
Overloads	10% for 1 hour every 12 hours
3-phase short circuit sustained current	≥ 300 % (3 I _n) with VARICOMP device
Voltage regulation accuracy	± 0,5 % I _n steady state condition
Radio interference	EN 55011 - Class B Group 1
Wave form THF	< 5%
Total harmonic content	< 5% - At no load

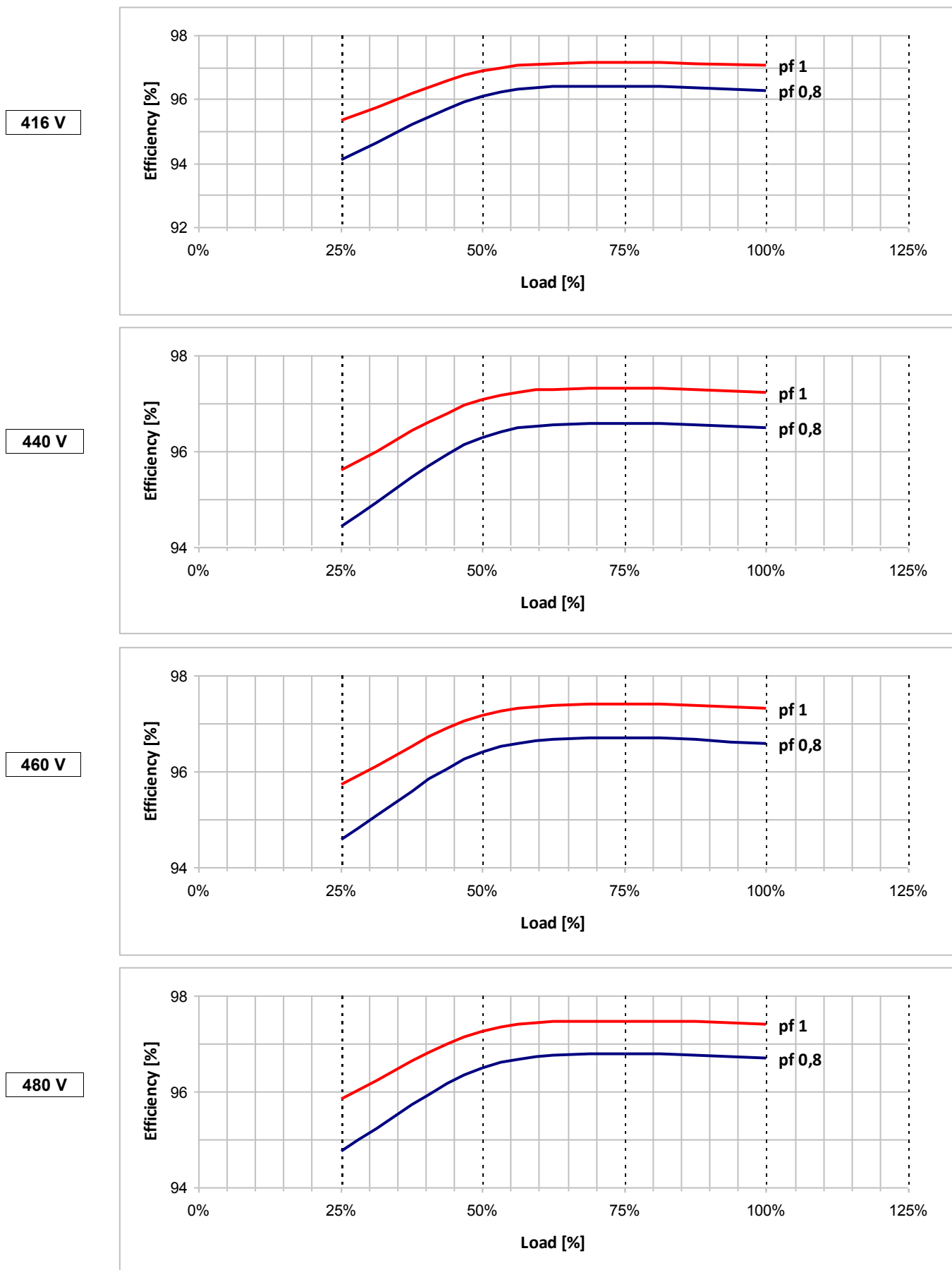
STANDARDS

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

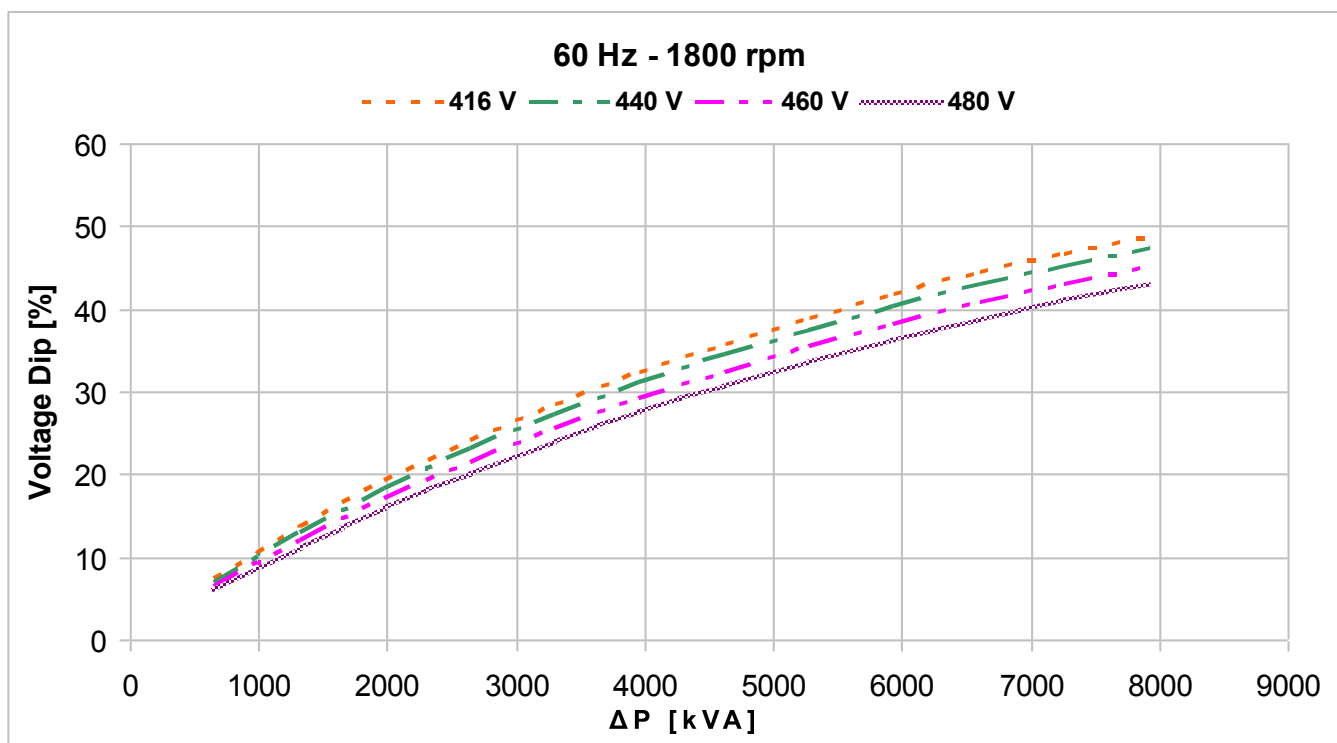
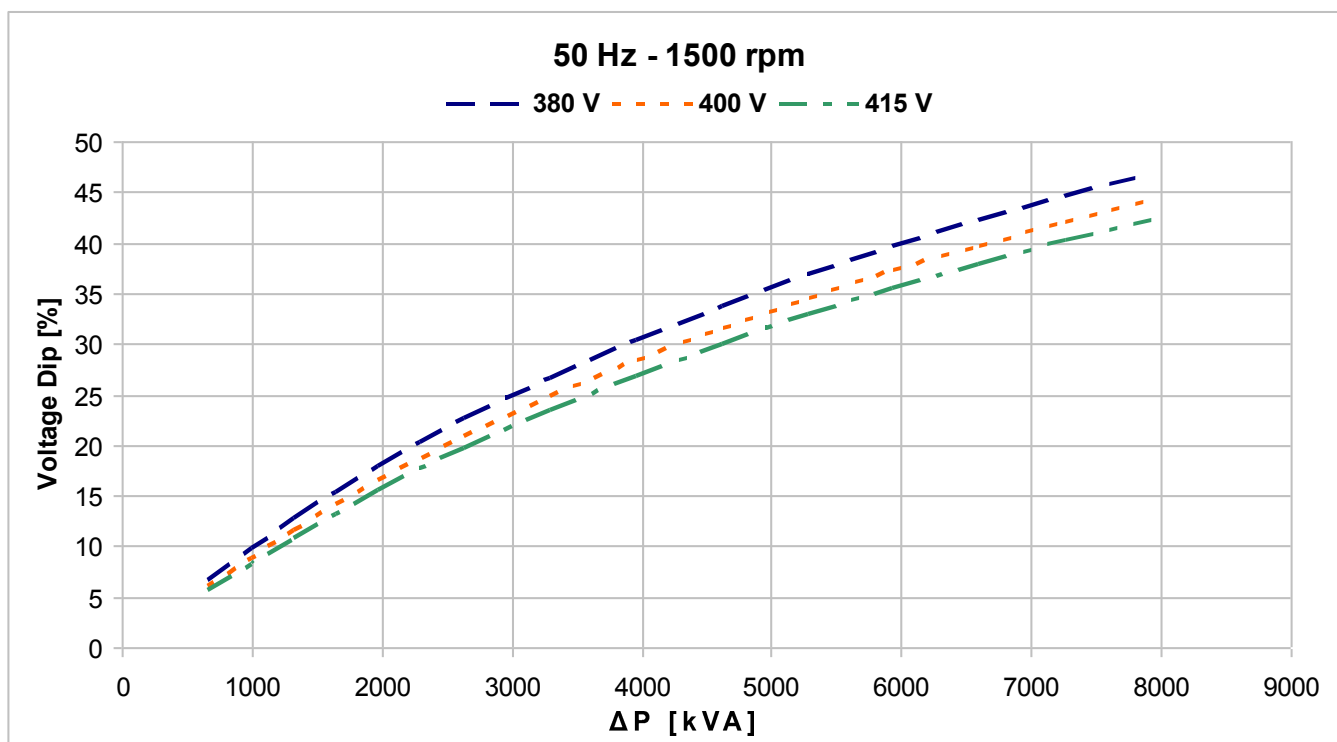
Typical efficiency curves
50 Hz - 1500 rpm
380 V

400 V

415 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.