

BTP3

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3 PHASE 2 POLE IP 23

Compound - Brush Generators

CHARACTERISTICS

POWER 230/400 V AT 3000 RPM - 50Hz											
Type	CL. H (Δ T=125°C)						CL. F (Δ T=105°C)		CL. H (Δ T=125°C)		T.H.D.
	THREE-PHASE		MOTOR STARTING	EFFICIENCY			THREE-PHASE		SINGLE-PHASE		
	KVA	KW COS φ 0,8		2/4 %	3/4 %	4/4 %	KVA	KW COS φ 0,8	KVA KW	MOTOR STARTING	
BTP3-1L/2	16	12,8	KVA 75	81	83,5	82,9	15	12	11	KVA 60	< 7
BTP3-2L/2	20	16	KVA 90	82	84,5	83,9	18,5	14,8	14	KVA 70	< 7

POWER 277/480 V AT 3600 RPM - 60Hz											
Type	CL. H (Δ T=125°C)						CL. F (Δ T=105°C)		CL. H (Δ T=125°C)		T.H.D.
	THREE-PHASE		MOTOR STARTING	EFFICIENCY			THREE-PHASE		SINGLE-PHASE		
	KVA	KW COS φ 0,8		2/4 %	3/4 %	4/4 %	KVA	KW COS φ 0,8	KVA KW	MOTOR STARTING	
BTP3-1L/2	19,2	15,4	KVA 90	82,5	84,9	84,4	18	14,4	13,2	KVA 72	< 7
BTP3-2L/2	24	19,2	KVA 108	84	86,8	86,3	22,2	17,8	16,8	KVA 82	< 7

Type	J (Kgm ²)			Weight (Kg)			Air Volume (m ³ /min)		Noise dB(A)				COUPLING DISCS	
									50 Hz		60 Hz		SAE N°	J(kgm ²)*
	B3/B14	B3/B9	MD35	B3/B14	B3/B9	MD35	50 Hz	60 Hz	1m	7m	1m	7m		
BTP3-1L/2	0,0410	0,0409	0,0414	68	66	72	7,5	9,3	85	70	89	73	6 1/2	0,0067
BTP3-2L/2	0,0469	0,0467	0,0473	75	73	79	7,4	8,9					7 1/2	0,0103
													8	0,0171
													10	0,0319
													11 1/2	0,0481

* The J value of form MD35 is obtained by summing the J of the MD35 form with the J of the chosen SAE coupling discs.

Type		BTP3-1L/2	BTP3-2L/2
Rating "H" class	kVA 50 Hz	16	20
Direct - axis synchronous reactance	Xd %	179	175
Direct - axis transient reactance	X'd %	24,7	23,7
Direct - axis subtransient reactance	X''d %	13,4	14,4
Quadrature - axis synchronous reactance	Xq %	95	98
Quadrature- axis transient reactance	X'q %	95	98
Quadrature-axis subtransient reactance	X''q %	34	36
Negative - sequence reactance	X ₂ %	17,5	17
Zero sequence reactance	X ₀ %	6	5,7
Transient time constant	T'd (ms)	62	65
Subtransient time constant	T''d (ms)	14	13
Armature time constant	T _α (ms)	12	10
Open circuit time constant	T'do (s)	0,75	0,8
Short - circuit ratio	Kcc	0,6	0,55
Stator winding resistance	Ω	0,44	0,43

ACCESSORIES

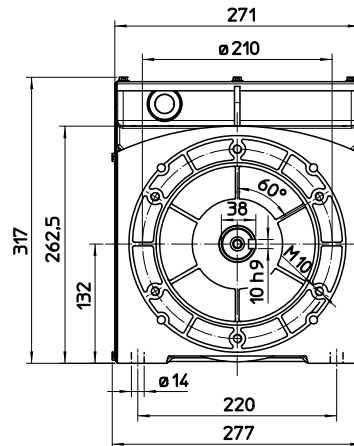
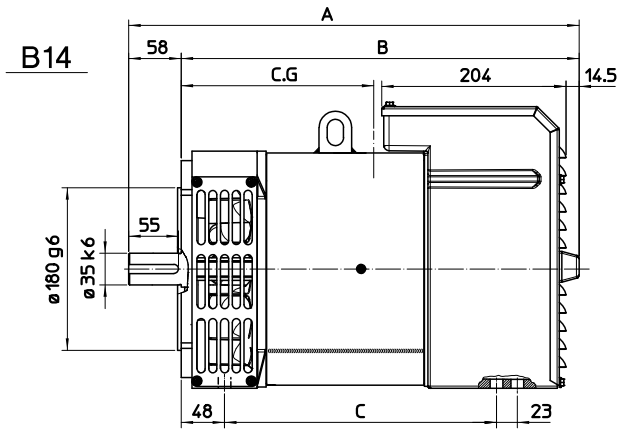
REGULATOR	PARALLEL	THERMAL PROTECTION			HEATERS	MECHANICAL PROTECTION		
COMPOUND TRANS.	DEVICE	PTC	BIMET DEVICE.	PT100		IP21	IP23	IP45
●		☐	☐	☐	☐		●	☐

● = Standard

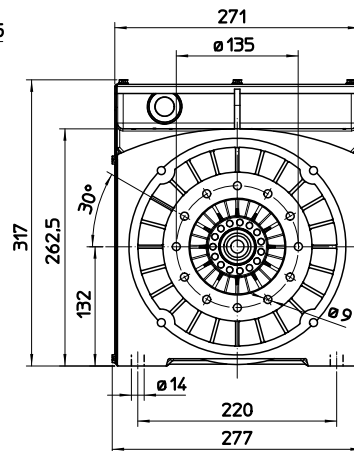
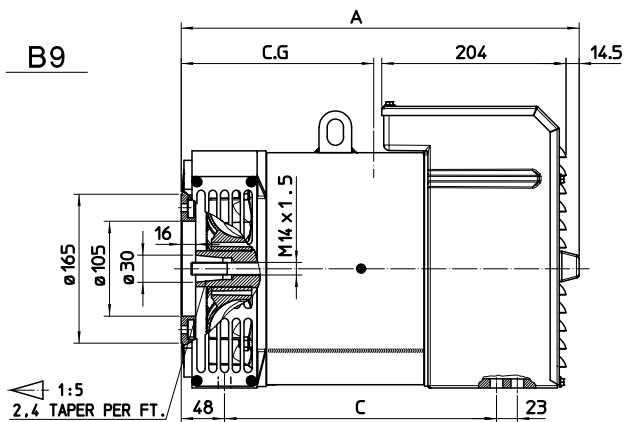
☐ = Optional



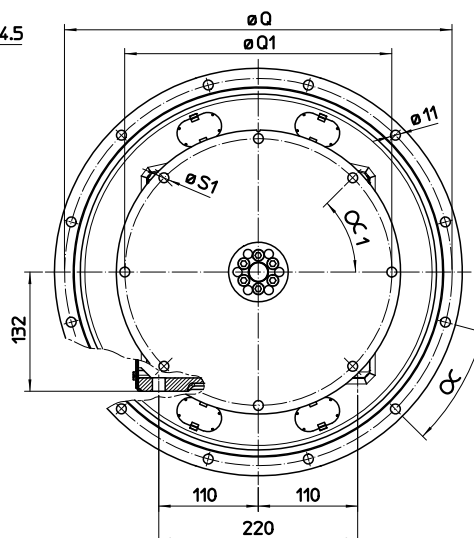
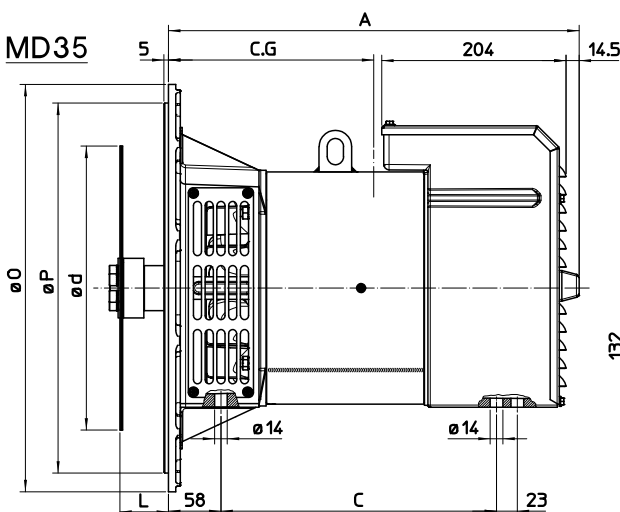
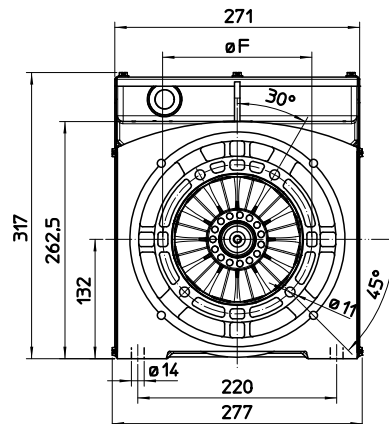
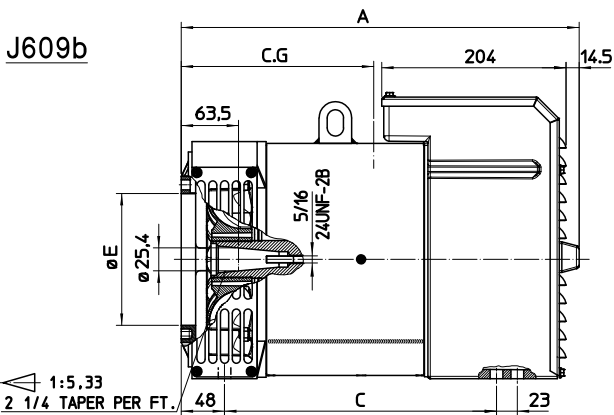
dimensions in mm



FORM	TYPE	A	B	C	E	F
B3B14	S	498	440	301	/	/
	L	568	510	371	/	/
B9	S	440	/	301	/	/
	L	510	/	371	/	/
J609b	S	440	/	301	146.1	165.1
	L	510	/	371	163.6	196.8
MD35	S	454	/	305	/	/
	L	524	/	375	/	/



		C.G. = CENTRO GRAVITA GRAVITY CENTER			
		B3B14	B9	J609b	MD35
2 POLI 2 POLES	1L	257	264	265	261
	2L	246	251	252	250



FLANGE					
SAE	O	P	Q	Fori N° Holes N°	α
6	308	266,7	285,75	8	22°30'
5	356	314,3	333,4	8	22°30'
4	403	362	381	12	15°
3	451	409,6	428,6	12	15°

COUPLING DISCS						
SAE	L	d	Q 1	Holes N°	S1	α_1
6 †	30,2	215,9	200	6	9	60°
7 †	30,2	241,3	222,25	8	9	45°
8	62	263,52	244,47	6	11	60°
10	53,8	314,52	295,27	8	11	45°
11 †	39,6	352,42	333,37	8	11	45°