

ET20F

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3-PH. 2 POLE IP23

BRUSH + AVR

CHARACTERISTICS

POWER 230/400V AT 3000 RPM - 50 Hz

Type	CL. H (ΔT=125°C)						CL. F (ΔT=105°C)		STAND BY (ΔT=163°C)		CL. H (ΔT=125°C)		T.H.D.
	THREE-PHASE		MOTOR STARTING CAPABILITY	EFFICIENCY %			THREE-PHASE		AMBIENT TEMPERATURE 27°C		SINGLE-PHASE DELTA CONNECTION		
	KVA	KW COS φ 0,8		kVA	2/4	3/4	4/4	kVA	kW COS φ 0,8	kVA	kW COS φ 0,8	kVA COS φ 1	
ET20FS-130	9	7,2	15	78,6	82,6	81,9	8,2	6,6	9,7	7,8	6	12	< 5
ET20FS-160	11,5	9,2	19	78,9	82,8	82,4	10,5	8,4	12,5	10	7,6	15	< 5
ET20F-200	13,5	10.8	21	79.4	83.5	82.9	12,2	9,8	14,2	11.4	9	18	< 5

POWER 277/480V AT 3600 RPM - 60 Hz

Type	CL. H (ΔT=125°C)						CL. F (ΔT=105°C)		STAND BY (ΔT=163°C)		CL. H (ΔT=125°C)		T.H.D.
	THREE-PHASE		MOTOR STARTING CAPABILITY	EFFICIENCY %			THREE-PHASE		AMBIENT TEMPERATURE 27°C		SINGLE-PHASE DELTA CONNECTION		
	KVA	KW COS φ 0,8		kVA	2/4	3/4	4/4	kVA	kW COS φ 0,8	kVA	kW COS φ 0,8	kVA COS φ 1	
ET20FS-130	11	8,8	18	79,8	83,9	83,6	10	8	11,6	9,3	7,2	14,5	< 5
ET20FS-160	14	11,2	22,5	79,8	84,5	83,9	12,5	10	15	12	9,1	18	< 5
ET20F-200	16,5	13.2	25	80.5	84.6	84.1	14.5	11.6	17	13.6	10.8	21.5	< 5

Type	J (Kg m^2)		Weight (Kg)			Air Volume (m 3 /min)		Noise dB(A)			
								50 Hz		60 Hz	
	B3/B14	B3/B9	B3/B14	B3/B9	MD35	50 Hz	60 Hz	7m	1m	7m	1m
ET20FS-130	0,0241	0,0231	45,2	44,2	48,2	4,7	5,7	81	63	83	65
ET20FS-160	0,0288	0,0277	52,2	51,2	55,2	4,7	5,7	81	63	83	65
ET20F-200	0,0335	0,0323	60	59	63	4,7	5,7	81	63	83	65

TYPICAL ELECTRICAL DATA

Type		ET20FS-130	ET20FS-160	ET20F-200
Rating "H" class	kVA 50 Hz	9	11,5	13,5
Direct - axis synchronous reactance	X _d %	353	334	270
Direct - axis transient reactance	X' _d %	39,2	37,4	31,9
Direct - axis subtransient reactance	X'' _d %	22,4	21,2	18,6
Quadrature - axis synchronous reactance	X _q %	109,3	100,9	88
Quadrature - axis transient reactance	X' _q %	109,3	100,9	88
Quadrature-axis subtransient reactance	X'' _q %	44,3	42,6	39
Negative - sequence reactance	X ₂ %	24	22,4	18
Zero sequence reactance	X ₀ %	8,8	8,4	6,9
Transient time constant	T' _d (ms)	54	51	43
Subtransient time constant	T'' _d (ms)	11	10	9
Armature time constant	T _α (ms)	6	7,5	9
Open circuit time constant	T' _{do} (s)	0,65	0,58	0,5
Short - circuit ratio	K _{cc}	0,58	0,51	0,56
Stator winding resistance	Ω	0,712	0,569	0,425

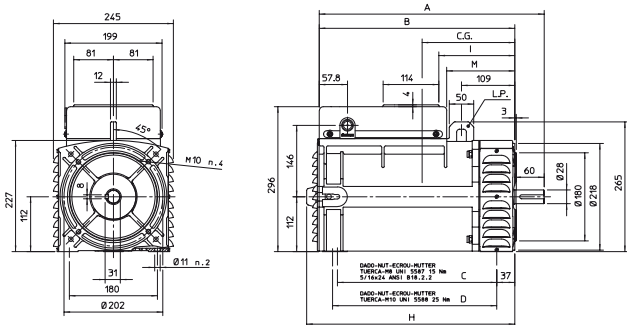
ELECTRONIC REGULATOR	PARALLEL DEVICE	THERMAL PROTECTION			HEATERS	MECHANICAL PROTECTION		
ASR		PTC	BIMET DEVICE	PT100		IP21	IP23	IP45
● = Standard	■ = Optional	☐	☐	☐	☐	☐	●	☐



OVERALL SIZE, STANDARD TYPE

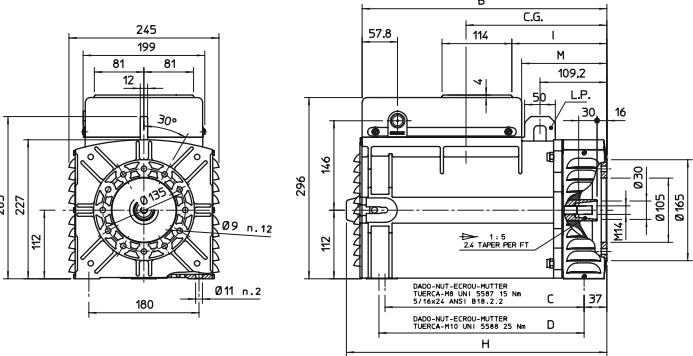
dimensions in mm

FORM B3/B14



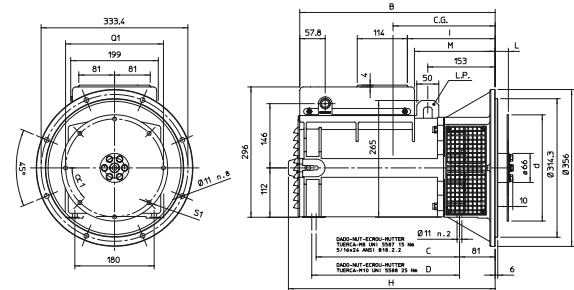
TYPE	A	B	C	D	H	I	M	L.P.
ET20F	460	400	325,5	335,5	425,5	155	139	YES
ET20FS	420	360	285,5	295,5	385,5	115	99	NO

FORM B9/c30

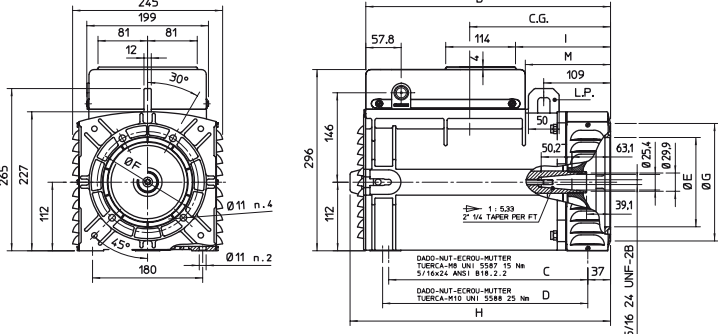


TYPE	B	C	D	H	I	M	L.P.
ET20	400	325,5	335,5	425,5	155	139	YES
ET20FS	360	285,5	295,5	385,5	115	99	NO

FORM MD35



FORM J609b



TYPE	B	C	D	H	I	M	L.P.
ET20F	444	325,5	335,5	469,5	199	183	YES
ET20FS	404	285,5	295,5	429,5	159	143	NO

SAE N.	GIUNTI A DISCO - DISC COUPLING - ACC. DISQUE					
	L	d	Q1	n. fori	S1	α1
6 1/2	30,2	215,9	200	6	9	60°
7 1/2	30,2	241,3	222,25	8	9	45°

GRAVITY/CENTER CG		
FORM	ET20FS	ET20F
B3/B14	210	203
MD35	246	239
J609b	212	205

GRAVITY/CENTER CG		
FORM	ET20FS	ET20F
J609b	212	205
B9/c30	212	205

FORM	E	F	G
J609b	Ø146	Ø165	Ø192
	Ø163,6	Ø196,85	Ø216
	Ø177,8		

OVERALL SIZE WITH ELECTRIC PANELBOARD TYPE

dimensions in mm

TYPE	L.P.
ET20F	YES
ET20FS	NO

