

ET20F-P

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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	MOTOR STARTING CAPABILITY kVA
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		2/4	3/4	4/4	kVA	kW cos φ 0,8	kVA	kW cos φ 0,8	kVA cos φ 1	MOTOR STARTING CAPABILITY kVA	
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 (Kgm²)		Weight (Kg)			Air Volume (m³/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	Xd %	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 reatance	Xq %	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	X₂ %	24	22,4	18
Zero sequence reactance	Xo %	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	Tα (ms)	6	7,5	9
Open circuit time constant	T'do (s)	0,65	0,58	0,5
Short - circuit ratio	Kcc	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
●		☐	☐	☐	☐		●	☐

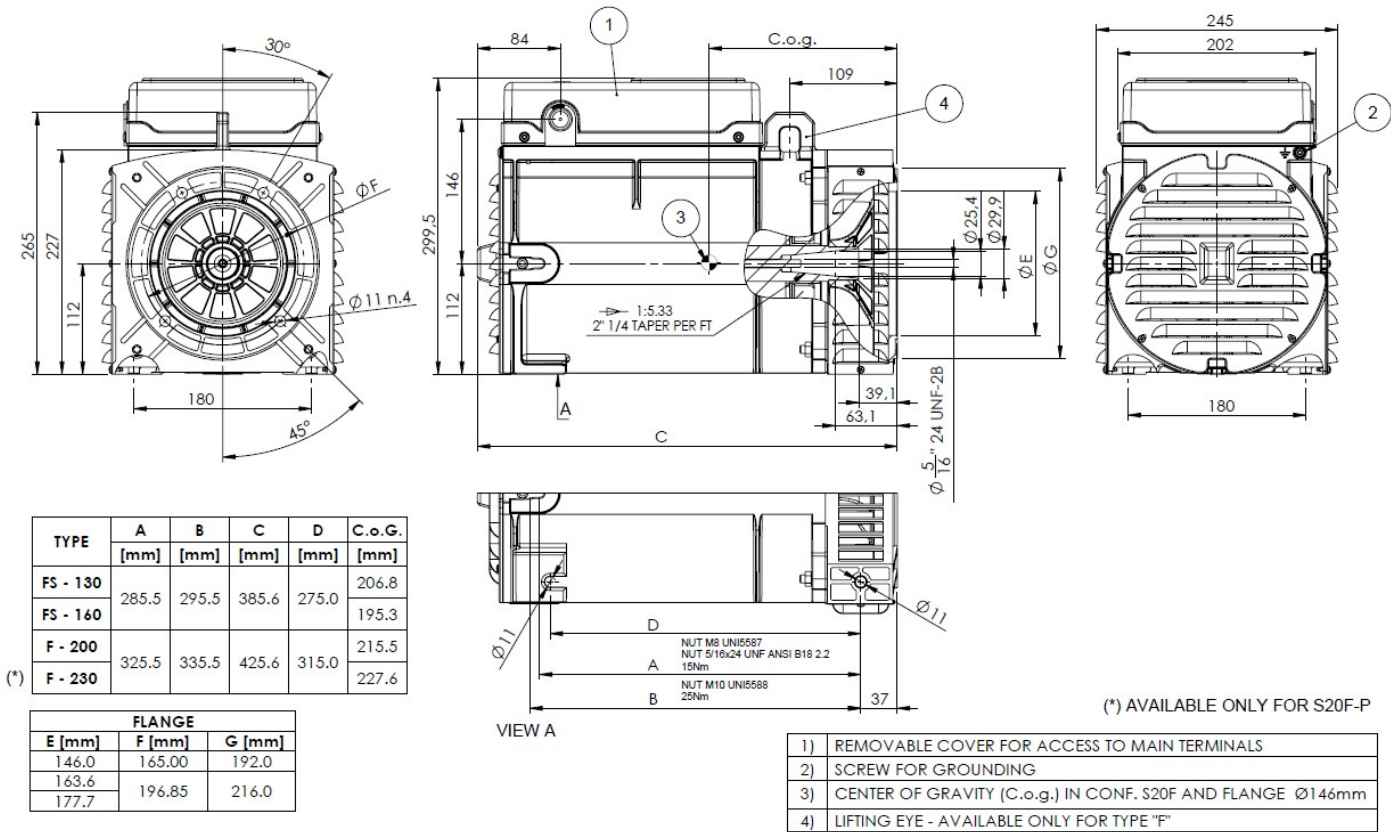
● = Standard ☐ = Optional



OVERALL SIZE, STANDARD TYPE

FORM B9/25.4

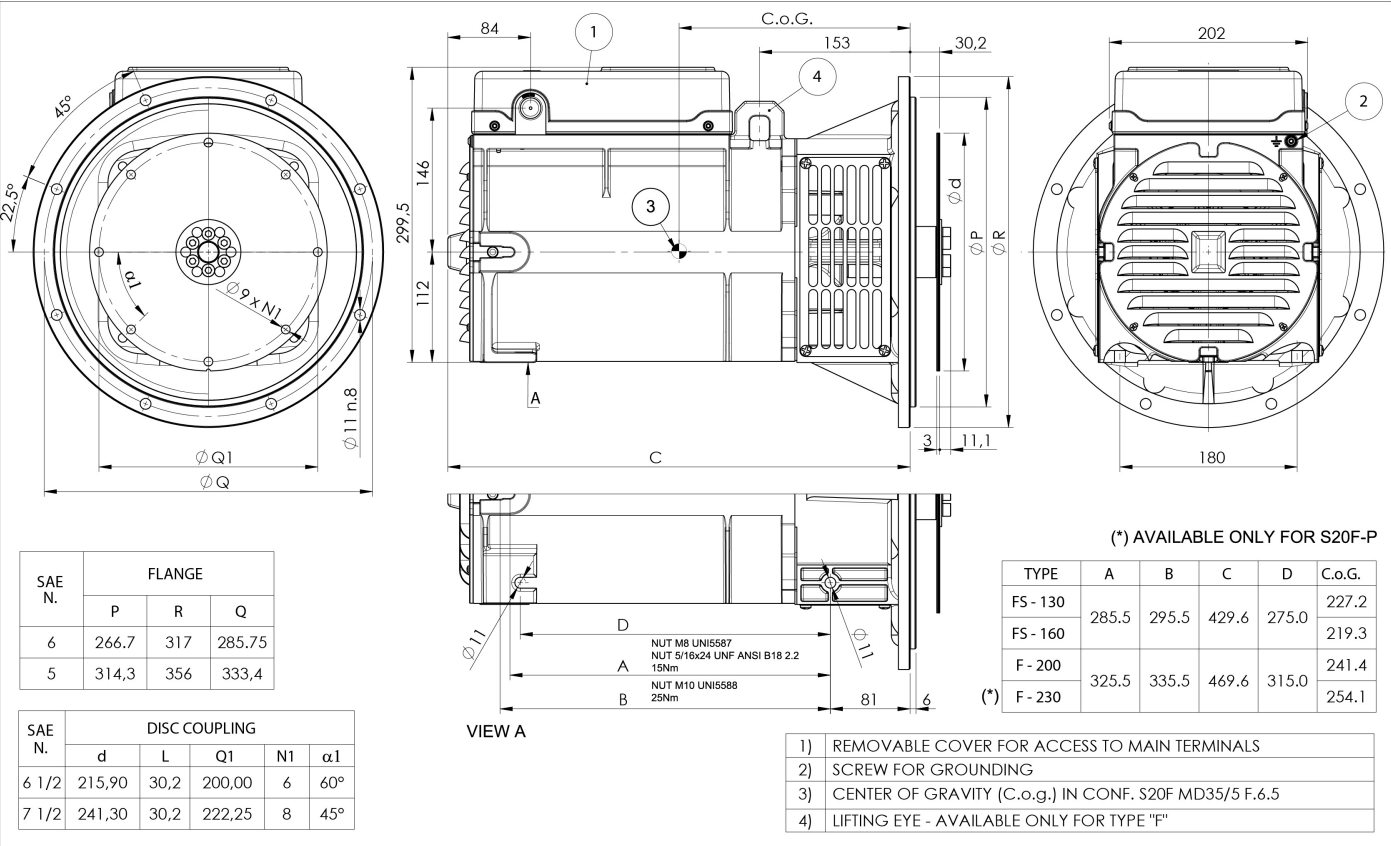
dimensions in mm.



OVERALL SIZE, STANDARD TYPE

FORM MD35

dimensions in
mm.



FORM B34

