

ST/STC series

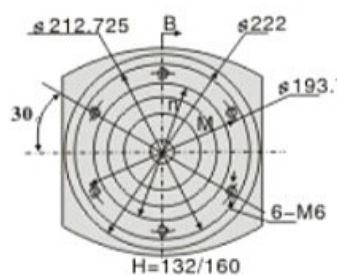
Single/Three Phase Alternator



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The generators are to be used in town, the countryside, work sites, Mountain and pasture lands as a electric power source for lighting purpose, It can also be used as a reserved power source for emergent case. The generators are of drip-pool with rotary field type and with the adoption of harmonic excitation system, that allow your easy operation and simple maintenance. The generators are of three-phase four-wire type, making use of star connection with neutral point. The rated line voltage is 400V. Phase voltage 230V. Frequency 50Hz. power factor 0.8 (lag). It can provide 60Hz and the other voltage's generator according to necessary. They can be coupled with a prime mover directly or through V-belt making right or reverse continuous rotation at the rated speed, when the revolution slip of prime mover is 3% and load varies in the range of 0-100% $\cos\phi$ 1.0-0.8 they give Food constant voltage. After sudden change (increase or decrease)of load, the generators will soon return to their normal working state, without any starting devices the generator can directly start an unloaded squirrel cage induction motor.

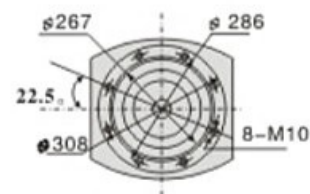
Overall and mounting dimension



Model B shield



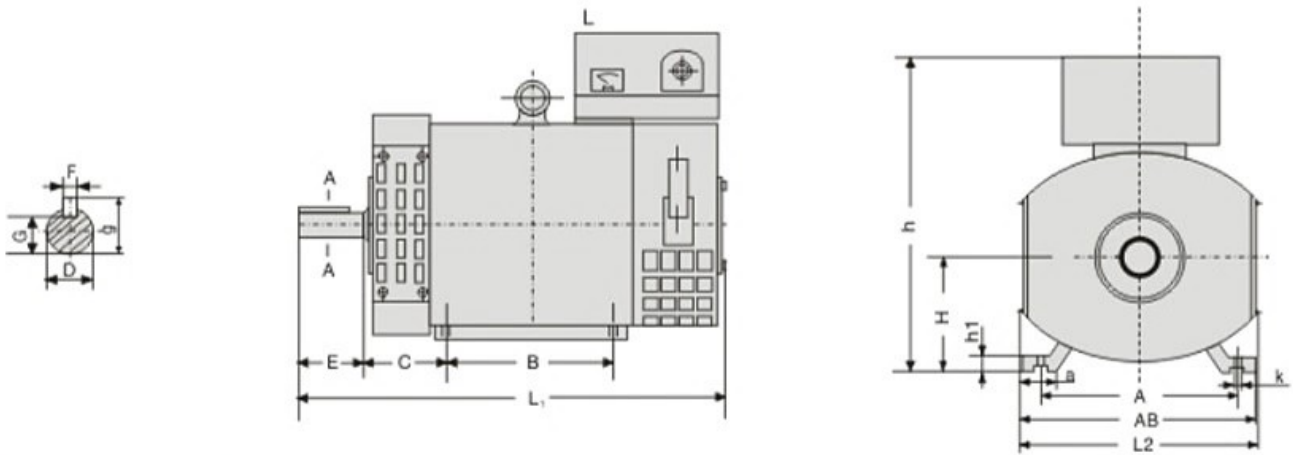
section



Model C shield



C-C section



Type	Output kW	Installation Size(mm)										Overall Dimension(mm)						Weight (kg)
		A	B	C	D	E	F	G	H	k	a	b	h1	h	L1	L2	g	
ST/STC-3	3	216	178	89	φ32	80	10	27	132	12	34	250	18	400	480	270	35	56
ST/STC-5	5	254	254	108	φ38	80	10	33	160	15	50	310	25	455	580	325	41	85
ST/STC-7.5	7.5	254	254	108	φ38	80	10	33	160	15	50	310	25	455	580	325	41	102
ST/STC-10	10	279	203	121	φ42	110	12	37	180	15	60	339	25	495	610	365	45	113
ST/STC-12	12	279	203	121	φ42	110	12	37	180	15	60	339	25	495	610	365	45	125
ST/STC-15	15	318	228	133	φ48	110	14	42.5	200	19	60	378	30	540	660	400	51.5	160
ST/STC-20	20	318	228	133	φ48	110	14	42.5	200	19	60	378	30	540	660	400	51.5	178
ST/STC-24	24	318	286	133	φ48	110	14	42.5	200	19	60	378	30	540	660	400	51.5	178
ST/STC-30	30	356	286	149	φ60	140	18	53	225	19	65	421	32	610	770	452	64	255
ST/STC-40	40	356	286	149	φ60	140	18	53	225	19	65	421	32	610	770	452	64	285
ST/STC-50	50	356	311	149	φ60	140	18	53	225	19	65	421	32	610	810	452	64	329

Technical data

Type	Output (kW)	Current(A)		Voltage(V)		Freq. (Hz)	Power factor cos φ
		Series connection	Parallel connection	Series connectio	Parallel connection		
ST-2	2	8.7	17.4	230	115	50/60	1.0
ST-3	3	13	26				
ST-5	5	21.8	43.5				
ST-7.5	7.5	32.6	65.2				
ST-10	10	43.7	87				
ST-12	12	52.2	104.4				
ST-15	15	65.2	130.4				
ST-20	20	87	174				
ST-24	24	104	208				

Type	Rated Output (kW)	Rated Capacity (kVA)	Rated Current (A)	Rated Speed (r/min)	Rated Voltage (V)	Freq. (Hz)	Power factor cos φ
STC-3	3	3.8	5.4	1500	400/230	50/60	0.8
STC-5	5	6.3	9	1500			
STC-7.5	7.5	9.4	13.5	1500			
STC-10	10	12.5	18.1	1500			
STC-12	12	15	21.7	1500			
STC-15	15	18.8	27.1	1500			
STC-20	20	25	36.1	1500			
STC-24	24	30	43.3	1500			
STC-30	30	37.5	54.1	1500			
STC-40	40	50	72.2	1500			
STC-50	50	62.5	90.2	1500			