

# THREE PHASE, TEFC SEVERE DUTY ENERGY EFFICIENT - ALL CAST IRON



## Maximum Speed range for Variable Frequency Drive

Variable Torque 10 : 1

Constant Torque 5 : 1

Frame sizes	2 poles	4 poles	6 poles	8 poles
	RPM			
140	5000	5000	3000	2500
180	5000	5000	3000	2500
210	5000	5000	3000	2500
250	4000	4000	2700	2000
280	4000	4000	2700	2000

## De- Rating Factors

Relation between motor's HP or SF and Ambient Temperature and Altitude

Amb Temperature		40°C	45°C	50°C	55°C	60°C	65°C
Altitude		Factor correction to be applied to HP or SF of the motor					
Feet	Meters						
3300	1000	1.00	0.96	0.90	0.86	0.82	0.73
4900	1500	0.97	0.93	0.87	0.83	0.80	0.70
6500	2000	0.94	0.90	0.85	0.81	0.77	0.69
8200	2500	0.90	0.86	0.81	0.77	0.74	0.66
10000	3000	0.86	0.83	0.77	0.74	0.71	0.63
11500	3500	0.82	0.79	0.74	0.71	0.67	0.60
13000	4000	0.77	0.74	0.70	0.66	0.63	0.56

### Example: ELT5E2D      5HP - 1800RPM - SF 1.3

At 50°C up to 3300 feet the rating of ELT5E2D becomes:

@ Constant HP      5HP @ SF = 1.17

or

@ Constant SF      4.5HP @ SF = 1.3

At 50°C and 10000 feet the rating of ELT5E2D becomes:

@ Constant HP      5HP @ SF = 1.0

or

@ Constant SF      3.85HP @ SF = 1.3