PFE

	Typical Applications	Light Duty	Standard Duty	Medium Duty	Heavy Duty
Step 1 *- Select the application from the list and follow that column down.*		Compressor - Unloaded Mixer - Unloaded Conveyor - Unloaded ***Do not use Light Duty when there is a possibility of the motor starting under a heavy load.***	Agitator Compressor - Rotary Vane Compressor - Scroll Bow Thruster - Zero Pitch Fan - Low Inertia Feeder - Screw Lathe Machines Moulding Machine Plastic and Textile Machines Pump - Submersible - Centrifugal Pump - Submersible - Rotodynamic Saw - Band Transformers Voltage Regulators	Compressor - Centrifugal Compressor - Reciprocating Compressor - Rotary Screw Ball Mill Bow Thruster - Loaded Conveyor - Loaded Grinder Hammer Mill Mills - flour etc. Mixer - Loaded Pelletizers Press, Flywheel Positive Displacement Pump - Reciprocating Positive Displacement Pump - Rotary Pump Jack Rolling Mill Roots Blower Saw - Circular Screen - Vibrating Tumblers	Crusher Shredder Wood Chipper ***The PFE is not suitable for very high inertia loads such as loaded crushers centrifuges, or start times >30s.***
Step 2 *- Confirm the rated starting capability of the soft start against the application.*	Trip Class Rated Starting Capability Max Starts per Hour with Optional Cooling Fan	Trip Class 2 3x Motor Current - 5secs 10 starts/hour 60 starts/hour	Trip Class 10 3x Motor Current - 23secs 3.5x Motor Current - 17secs 5 starts/hour 30 starts/hour	Trip Class 20 4x Motor Current - 19secs 5 starts/hour 30 starts/hour	Trip Class 30 4x Motor Current - 29secs 5 starts/hour 30 starts/hour
Step 3 *- Consider the operating environment and make the model selection on a higher horsepower rating.*	Height Above Sea Level Operating Temperature Increased Starts per Hour	Standard operating height is 1000m, for every 100m increase motor Amps/kW by 1%, up to 2000m. Example: For a 10A motor at 1500m make model selection based on 10.5 A (5% higher) Standard operating temperature is 40degC, for every 1degC above, increase motor Amps/kW by 2%, up to 60degC. Example: For a 10A motor at 50degC make model selection based on 12 A (20% higher) Fit optional fan to increase maximum starts per hour or where advised below.			

Step 4 *- Select your motor Voltage and Horsepower and select model.*	Motor Rating						Select Model 10 starts/hour	Select Model 5 starts/hour	Select Model 5 starts/hour	Select Model 5 starts/hour
	230V		460V		400V					
	HP	Ie(A)	HP	Ie(A)	kW	I_e(A)				
	0.5	2.2	1.5	3	1.1	2.7	PFE-02	PFE-02	PFE-04	PFE-06
	0.75	3.2	2	3.4	1.5	3.6	PFE-02	PFE-04	PFE-06	PFE-08
	1	4.2	3	4.8	2.2	4.9	PFE-02	PFE-06	PFE-08	PFE-10
	2	6.8	3	4.8	3	6.5	PFE-04	PFE-08	PFE-10	PFE-12
	3	9.6	5	7.6	4	8.5	PFE-06	PFE-10	PFE-12	PFE-14
	3	9.6	7.5	11	5.5	11.5	PFE-08	PFE-12	PFE-16	PFE-18
	5	15.2	10	14	7.5	15.5	PFE-10	PFE-14	PFE-18	PFE-18 + Fan
	7.5	22	15	21	11	22	PFE-12	PFE-18	PFE-18 + Fan	-
	10	28	20	27	15	29	PFE-14	PFE-18 + Fan	-	-
	10	28	25	34	18.5	35	PFE-16	-	-	-
	10	28	30	40	22	41	PFE-18	-	-	-

DFE

	Typical Applications	Light Duty	Standard Duty	Medium Duty	Heavy Duty
Step 1 *- Select the application from the list and follow that column down.*		Compressor -Unloaded Mixer - Unloaded Conveyor - Unloaded ***Do not use Light Duty when there is a possibility of the motor starting under a heavy load.***	Agitator Compressor - Rotary Vane Compressor - Scroll Bow Thruster - Zero Pitch Fan - Low Inertia Feeder - Screw Lathe Machines Moulding Machine Plastic and Textile Machines Pump - Submersible - Centrifugal Pump - Submersible - Rotodynamic Saw - Band Transformers Voltage Regulators	Compressor - Centrifugal Compressor - Reciprocating Compressor - Rotary Screw Ball Mill Bow Thruster - Loaded Conveyor - Loaded Grinder Hammer Mill Mills - flour etc. Mixer - Loaded Pelletizers Press, Flywheel Positive Displacement Pump - Reciprocating Positive Displacement Pump - Rotary Pump Jack Rolling Mill Roots Blower Saw - Circular Screen - Vibrating Tumblers	Crusher Shredder Wood Chipper Fan - High Inertia >85A ***The DFE is not suitable for very high inertia loads such as centrifuges, loaded crushers or start times >30s.***
Step 2 *- Confirm the rated starting capability of the soft start against the application.*	Trip Class Rated Starting Capability Max Starts per Hour	Trip Class 2 3x Motor Current - 5secs 10 starts/hour	Trip Class 10 3x Motor Current - 23secs 3.5x Motor Current - 17secs 5 starts/hour or 3 starts/hour	Trip Class 20 4x Motor Current - 19secs 5 starts/hour or 3 starts/hour	Trip Class 30 4x Motor Current - 29secs 5 starts/hour or 3 starts/hour
Step 3 *- Consider the operating environment and make the model selection on a higher horsepower rating.*	Height Above Sea Level Operating Temperature Increased Starts per Hour	Standard operating height is 1000m, for every 100m increase motor Amps/kW by 1%, up to 2000m. Example: For a 20A motor at 1500m make model selection based on 21A (5% higher) Standard operating temperature is 40degC, for every 1degC above, increase motor Amps/kW by 2%, up to 60degC. Example: For a 20A motor at 50degC make model selection based on 24A (20% higher) Use our online tool to select the model.			

Step 4 *- Select your motor Voltage and Horsepower and select model.*

Motor Rating						Select Model	Select Model	Select Model	Select Model
230V		460V		400V		10 starts/hour	5 starts/hour	5 starts/hour	5 starts/hour
HP	I_e(A)	HP	I_e(A)	kW	I_e(A)				
5	15.2	10	14	7.5	15.5	DFE-02	DFE-02	DFE-04	DFE-04
7.5	22	15	21	11	22	DFE-02	DFE-04	DFE-04	DFE-06
10	28	20	27	15	29	DFE-04	DFE-06	DFE-06	DFE-08
10	28	25	34	18.5	35	DFE-06	DFE-06	DFE-08	DFE-12
15	42	30	40	22	41	DFE-06	DFE-08	DFE-12	DFE-16
20	54	40	52	30	55	→	DFE-12	DFE-16	DFE-22
20	54	50	65	37	66	→	DFE-14	DFE-22	DFE-22
30	80	60	77	45	80	→	DFE-22	DFE-22	DFE-24
30	80	75	96	55	97	→	DFE-22	DFE-24	DFE-26
50	130	100	124	75	132	→	DFE-26	↓	↓
3 starts/hour						3 starts/hour	3 starts/hour	3 starts/hour	3 starts/hour
50	130	100	124	75	132	→	↓	DFE-30	DFE-32
60	154	125	156	90	160	→	DFE-30	DFE-32	DFE-34
75	192	150	180	110	195	→	DFE-32	DFE-34	DFE-36
75	192	200	240	132	230	→	DFE-34	DFE-36	DFE-38
100	248	200	240	160	280	→	DFE-36	DFE-38	-
125	312	250	302	200	350	→	DFE-38	-	-
150	360	300	361	200	350	→	DFE-38	-	-

SGY

	Typical Applications	Standard Duty	Medium Duty	Heavy Duty
Step 1 *- Select the application from the list and follow that column down.*		Agitator Compressor - Rotary Vane Compressor - Scroll Bow Thruster - Zero Pitch Fan - Low Inertia Feeder - Screw Lathe Machines Moulding Machine Plastic and Textile Machines Pump - Submersible - Centrifugal Pump - Submersible - Rotodynamic Saw - Band Transformers Voltage Regulators	Compressor - Centrifugal Compressor - Reciprocating Compressor - Rotary Screw Ball Mill Bow Thruster - Loaded Conveyor - Loaded Grinder Hammer Mill Mills - flour etc. Mixer - Loaded Pelletizers Press, Flywheel Positive Displacement Pump - Reciprocating Positive Displacement Pump - Rotary Pump Jack Rolling Mill Roots Blower Saw - Circular Screen - Vibrating Tumblers	Crusher Shredder Wood Chipper Fan - High Inertia >85A ***For centrifuges make selection at I(A) = motor FLA x 2.3***
Step 2 *- Confirm the rated starting capability of the soft start against the application.*	Trip Class Rated Starting Capability Max Starts per Hour	Trip Class 10 3x Motor Current - 23secs 3.5x Motor Current - 17secs 5 starts/hour or 3 starts/hour	Trip Class 20 4x Motor Current - 19secs 5 starts/hour or 3 starts/hour	Trip Class 30 4x Motor Current - 29secs 5 starts/hour or 3 starts/hour
Step 3 *- Consider the operating environment and make the model selection on a higher horsepower rating.*	Height Above Sea Level Operating Temperature Increased Starts per Hour	Standard operating height is 1000m, for every 100m increase motor Amps/kW/HP by 1%, up to 2000m. Example: For a 100A motor at 1500m make model selection based on 105A (5% higher) Standard operating temperature is 50degC, for every 1degC above, increase motor Amps/kW/HP by 4%, up to 60degC. Example: For a 100A motor at 55degC make model selection based on 120A (20% higher) Use our online tool to select the model.		

Step 4 *- Select your motor Voltage and Horsepower and select model.*

Motor Rating In Line				Motor Rating In Delta				Select Model	Select Model	Select Model
400V		460V		400V		460V				
kW	I_e(A)	HP	I_e(A)	kW	I_e(A)	HP	I_e(A)	5 starts/hour @ 50°C	5 starts/hour @ 50°C	5 starts/hour @ 50°C
7.5	17	**10**	17	**15**	29	**20**	29	SGY-101	SGY-103	SGY-105
11	22	**15**	21	**18.5**	38	**25**	36	SGY-103	SGY-105	SGY-107
15	29	**20**	27	**22**	50	**30**	47	SGY-105	SGY-107	SGY-109
18.5	35	**25**	34	**30**	61	**40**	59	SGY-107	SGY-109	SGY-111
22	41	**30**	40	**37**	71	**50**	69	SGY-109	SGY-111	SGY-113
30	55	**40**	52	**45**	95	**60**	90	SGY-111	SGY-113	SGY-115
37	66	**50**	65	**55**	114	**75**	113	SGY-113	SGY-115	SGY-117
45	80	**60**	77	**75**	139	**100**	133	SGY-115	SGY-117	SGY-201
55	100	**75**	96	**90**	173	**125**	166	SGY-117	SGY-201	SGY-203
75	132	**100**	124	**110**	229	**150**	215	SGY-201	SGY-203	SGY-205
90	160	**125**	156	**150**	277	**200**	270	SGY-203	SGY-205	↓
110	195	**150**	180	**185**	338	**250**	312	SGY-205	↓	↓
3 starts/hour @ 50°C				**3 starts/hour @ 50°C**				**3 starts/hour @ 50°C**	**3 starts/hour @ 50°C**	**3 starts/hour @ 50°C**
90	160	**125**	156	**150**	277	**200**	270	↓	↓	SGY-301
110	195	**150**	180	**185**	338	**250**	312	↓	SGY-301	SGY-303
132	242	**200**	242	**220**	419	**350**	419	SGY-301	SGY-303	SGY-305
160	302	**250**	302	**300**	523	**450**	523	SGY-303	SGY-305	SGY-307
200	361	**300**	361	**355**	625	**500**	625	SGY-305	SGY-307	SGY-309
250	430	**350**	414	**425**	745	**500**	717	SGY-307	SGY-309	↓
280	500	**400**	477	**500**	866	**600**	826	SGY-309	↓	↓
3 starts/hour @ 40°C				**3 starts/hour @ 40°C**				**3 starts/hour @ 40°C**	**3 starts/hour @ 40°C**	**3 starts/hour @ 40°C**
250	430	**350**	414	**425**	745	**500**	717	↓	↓	SGY-401
280	500	**400**	477	**500**	866	**600**	826	↓	SGY-401	SGY-403
355	610	**500**	590	**600**	1057	**800**	1022	SGY-401	SGY-403	SGY-501
400	722	**600**	722	**710**	1251	**1000**	1251	SGY-403	SGY-501	SGY-503
500	850	**700**	840	**850**	1472	**1100**	1455	SGY-501	SGY-503	SGY-505
560	960	**800**	960	**950**	1663	**1250**	1663	SGY-503	SGY-505	-
630	1080	**900**	1080	**1100**	1871	**1500**	1871	SGY-505	-	-