



# TeSys™ island

Protection Components / Starters  
Coordination Tables



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# General contents

## TeSys island

### Protection Components / Starters - Coordination – IEC.....p. 4

Type 1 or 2 coordination with fuses - 690 V .....	p. 4
Type 1 coordination with circuit breakers – 230 V.....	p. 5
Type 2 coordination with circuit breakers – 230 V.....	p. 6
Type 1 coordination with circuit breakers - 400 – 440 – 500 V .....	p. 7
Type 2 coordination with circuit breakers - 400 – 440 – 500 V .....	p. 8
Type 1 coordination with circuit breakers– 690 V.....	p. 9
Type 2 coordination with circuit breakers– 690 V.....	p. 10

### Protection components / Starters – SCCR Ratings – UL .....p. 11

Short Circuit Current Ratings (SCCR) .....	p. 11
Group Motor Rating .....	p. 11

# Protection Components / Starters - Coordination – IEC

## Type 1 or 2 coordination with fuses

### 690 V

#### 690 V - Type 1 or 2 coordination with fuses

Applications with 3-phase motors 50-60 Hz in category AC-3	aM fuses	Standard Starters SIL Starters Power Interface Modules
690 V	Rating	References    Setting range
I <sub>q</sub>		
kA	A	A
80	≤10	TPRST009 TPRSS009 TPRPM009    0.18-9
	≤25	TPRST025 TPRSS025 -    0.5-25
	≤40	TPRST038 TPRSS038 TPRPM038    0.76-38
	≤80	TPRST065 TPRSS065 -    3.25-65
	≤80	TPRST080 TPRSS080 TPRPM080    4-80

# Protection Components / Starters - Coordination – IEC

## Type 1 coordination with circuit breakers

### 230 V

#### 0.06 to 22 kW at 230 V: Type 1 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters Power Interface Modules	
230 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>			
kW	A	kA			A
0.06	0.35	100	GV2L03	TPRST009 TPRSS009 TPRPM009	0.18-9
0.09	0.52	100	GV2L04	TPRST009 TPRSS009 TPRPM009	0.18-9
0.12	0.7	100	GV2L05	TPRST009 TPRSS009 TPRPM009	0.18-9
0.18	1	100	GV2L06	TPRST009 TPRSS009 TPRPM009	0.18-9
0.25	1.5	100	GV2L06	TPRST009 TPRSS009 TPRPM009	0.18-9
0.37	1.9	100	GV2L07	TPRST009 TPRSS009 TPRPM009	0.18-9
0.55	2.6	100	GV2L08	TPRST009 TPRSS009 TPRPM009	0.18-9
0.75	3.3	100	GV2L08	TPRST009 TPRSS009 TPRPM009	0.18-9
1.1	4.7	100	GV2L10	TPRST009 TPRSS009 TPRPM009	0.18-9
1.5	6.3	100	GV2L14	TPRST009 TPRSS009 TPRPM009	0.18-9
2.2	8.5	100	GV2L14	TPRST009 TPRSS009 TPRPM009	0.18-9
3	11.3	100	GV2L16	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
4	15	100	GV2L20	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
5.5	20	50	GV2L22	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
7.5	27	50	GV2L32	TPRST038 TPRSS038 TPRPM038	0.76-38
9	32	100	GV3L40	TPRST038 TPRSS038 TPRPM038	0.76-38
11	38	100	GV3L40	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
15	51	100	GV3L65	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
18.5	61	100	GV3L65	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
22	72	100	GV3L73	TPRST080 TPRSS080 TPRPM080	4-80

# Protection Components / Starters - Coordination – IEC

## Type 2 coordination with circuit breakers

### 230 V

#### 0.06 to 22 kW at 230 V: Type 2 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters	
230 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>			
kW	A	kA			A
0.06	0.35	100	GV2L03	TPRST009 TPRSS009	0.18-9
0.09	0.52	100	GV2L04	TPRST009 TPRSS009	0.18-9
0.12	0.7	100	GV2L05	TPRST009 TPRSS009	0.18-9
0.18	1	100	GV2L06	TPRST009 TPRSS009	0.18-9
0.25	1.5	100	GV2L06	TPRST009 TPRSS009	0.18-9
0.37	1.9	100	GV2L07	TPRST009 TPRSS009	0.18-9
0.55	2.6	100	GV2L08	TPRST009 TPRSS009	0.18-9
0.75	3.3	100	GV2L08	TPRST025 TPRSS025	0.5-25
1.1	4.7	100	GV2L10	TPRST025 TPRSS025	0.5-25
1.5	6.3	100	GV2L14	TPRST025 TPRSS025	0.5-25
2.2	8.5	100	GV2L14	TPRST025 TPRSS025	0.5-25
3	11.3	100	GV2L16	TPRST025 TPRSS025	0.5-25
4	15	100	GV2L20	TPRST025 TPRSS025	0.5-25
5.5	20	50	GV2L22	TPRST025 TPRSS025	0.5-25
7.5	27	50	GV2L32	TPRST038 TPRSS038	0.76-38
9	32	100	GV3L40	TPRST038 TPRSS038	0.76-38
11	38	100	GV3L40	TPRST065 TPRSS065	3.25-65
15	51	100	GV3L65	TPRST065 TPRSS065	3.25-65
18.5	61	100	GV3L65	TPRST065 TPRSS065	3.25-65
22	72	100	GV3L73	TPRST080 TPRSS080	4-80

# Protection Components / Starters - Coordination – IEC

## Type 1 coordination with circuit breakers

### 400/415 - 440 - 500 V

#### 0.06 to 37 kW at 400/415 - 440 - 500 V: Type 1 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3									Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters Power Interface Modules	
400/415 V			440 V			500 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>			A
kW	A	kA	kW	A	kA	kW	A	kA			
0.06	0.2	100	0.06	0.18	100	-	-	-	GV2L03	TPRST009 TPRSS009 TPRPM009	0.18-9
0.09	0.3	100	0.09	0.27	100	-	-	-			
0.12	0.44	100	0.12	0.4	100	-	-	-	GV2L04	TPRST009 TPRSS009 TPRPM009	0.18-9
0.18	0.6	100	0.18	0.55	100	-	-	-			
0.25	0.85	100	0.25	0.77	100	-	-	-	GV2L05	TPRST009 TPRSS009 TPRPM009	0.18-9
0.37	1.1	100	-	-	-	0.37	0.88	100			
-	-	-	0.37	1	100	-	-	-	GV2L06	TPRST009 TPRSS009 TPRPM009	0.18-9
0.55	1.5	100	0.55	1.4	100	0.55	1.2	100			
-	-	-	-	-	-	0.75	1.5	100	GV2L07	TPRST009 TPRSS009 TPRPM009	0.18-9
0.75	1.9	100	0.75	1.7	100	-	-	-			
1.1	2.7	100	-	-	-	1.1	2.2	100	GV2L08	TPRST009 TPRSS009 TPRPM009	0.18-9
-	-	-	1.1	2.4	100	-	-	-			
1.5	3.6	100	1.5	3.3	100	1.5	2.9	100	GV2L10	TPRST009 TPRSS009 TPRPM009	0.18-9
2.2	4.9	100	2.2	4.5	100	2.2	3.9	100			
-	-	-	3	5.9	100	3	5.2	100	GV2L14	TPRST009 TPRSS009 TPRPM009	0.18-9
3	6.5	100	-	-	-	-	-	-			
4	8.5	100	4	7.7	20	4	6.8	10	GV2L16	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
-	-	-	-	-	-	5.5	9.2	10			
5.5	11.5	50	5.5	10.5	20	-	-	-	GV2L20	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
-	-	-	-	-	-	7.5	12.4	10			
7.5	15.5	50	7.5	14.1	20	-	-	-	GV2L22	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
-	-	-	9	16.5	20	9	13.9	10			
9	18.1	50	-	-	-	-	-	-	GV2L32	TPRST038 TPRSS038 TPRPM038	0.76-38
11	22	50	11	20	20	11	17.6	10			
-	-	-	-	-	-	15	23	10	GV3L40	TPRST038 TPRSS038 TPRPM038	0.76-38
15	29	50	15	26.4	20	-	-	-			
-	-	-	-	-	-	18.5	28	10	GV3L50	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
18.5	35	50	18.5	31.8	50	-	-	-			
-	-	-	-	-	-	22	33	12	GV3L65	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
22	41	50	22	37.3	50	-	-	-			
-	-	-	-	-	-	30	44	12	GV3L73	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
30	55	50	30	50	50	-	-	-			
-	-	-	37	60	50	37	53	12			
37	66	50	-	-	-	-	-	-			

# Protection Components / Starters - Coordination – IEC

## Type 2 coordination with circuit breakers

### 400/415 - 440 - 500 V

#### 0.06 to 37 kW at 400/415 - 440 - 500 V: Type 2 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3									Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters	
400/415 V			440 V			500 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>	P	I <sub>e</sub>	I <sub>q</sub>			A
kW	A	kA	kW	A	kA	kW	A	kA			
0.06	0.2	100	0.06	0.18	100	-	-	-	GV2L03	TPRST009 TPRSS009	0.18-9
0.09	0.3	100	0.09	0.27	100	-	-	-			
0.12	0.44	100	0.12	0.4	100	-	-	-	GV2L04	TPRST009 TPRSS009	0.18-9
0.18	0.6	100	0.18	0.55	100	-	-	-			
0.25	0.85	100	0.25	0.77	100	-	-	-	GV2L05	TPRST009 TPRSS009	0.18-9
0.37	1.1	100	-	-	-	0.37	0.88	100			
-	-	-	0.37	1	100	-	-	-	GV2L06	TPRST009 TPRSS009	0.18-9
0.55	1.5	100	0.55	1.4	100	0.55	1.2	100			
-	-	-	-	-	-	0.75	1.5	100	GV2L07	TPRST009 TPRSS009	0.18-9
0.75	1.9	100	0.75	1.7	100	-	-	-			
-	-	-	-	-	-	1.1	2.2	100	GV2L07	TPRST025 TPRSS025	0.5-25
1.1	2.7	100	-	-	-	-	-	-			
-	-	-	1.1	2.4	100	-	-	-	GV2L08	TPRST009 TPRSS009	0.18-9
-	-	-	-	-	-	1.5	2.9	100			
1.5	3.6	100	1.5	3.3	100	-	-	-	GV2L08	TPRST025 TPRSS025	0.5-25
2.2	4.9	100	2.2	4.5	100	2.2	3.9	100			
-	-	-	3	5.9	100	3	5.2	100	GV2L10	TPRST025 TPRSS025	0.5-25
3	6.5	100	-	-	-	-	-	-			
4	8.5	100	4	7.7	20	4	6.8	10	GV2L14	TPRST025 TPRSS025	0.5-25
-	-	-	-	-	-	5.5	9.2	10			
5.5	11.5	50	5.5	10.5	20	-	-	-	GV2L16	TPRST025 TPRSS025	0.5-25
-	-	-	-	-	-	7.5	12.4	10			
7.5	15.5	50	7.5	14.1	20	-	-	-	GV2L20	TPRST025 TPRSS025	0.5-25
-	-	-	9	16.5	20	9	13.9	10			
9	18.1	50	-	-	-	-	-	-	GV2L22	TPRST025 TPRSS025	0.5-25
11	22	50	11	20	20	11	17.6	10			
-	-	-	-	-	-	15	23	10	GV2L32	TPRST038 TPRSS038	0.76-38
15	29	50	15	26.4	20	-	-	-			
-	-	-	-	-	-	18.5	28	10	GV3L40	TPRST038 TPRSS038	0.76-38
18.5	35	50	18.5	31.8	50	-	-	-			
-	-	-	-	-	-	22	33	12	GV3L50	TPRST065 TPRSS065	3.25-65
22	41	50	22	37.3	50	-	-	-			
-	-	-	-	-	-	30	44	12	GV3L65	TPRST065 TPRSS065	3.25-65
30	55	50	30	50	50	-	-	-			
-	-	-	37	60	50	37	53	12	GV3L73	TPRST065 TPRSS065	3.25-65
37	66	50	-	-	-	-	-	-			



# Protection Components / Starters - Coordination – IEC

## Type 1 coordination with circuit breakers

### 690 V

#### 0.06 to 37 kW at 690 V: Type 1 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters Power Interface Modules	
690 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>			
kW	A	kA			A
0.37	0.64	100	GV2L05	TPRST009 TPRSS009 TPRPM009	0.18-9
0.55	0.87	4	GV2L05	TPRST009 TPRSS009 TPRPM009	0.18-9
0.75	1.1	4	GV2L06	TPRST009 TPRSS009 TPRPM009	0.18-9
1.1	1.6	4	GV2L07	TPRST009 TPRSS009 TPRPM009	0.18-9
1.5	2.1	4	GV2L07	TPRST009 TPRSS009 TPRPM009	0.18-9
2.2	2.8	4	GV2L08	TPRST009 TPRSS009 TPRPM009	0.18-9
3	3.8	4	GV2L08	TPRST009 TPRSS009 TPRPM009	0.18-9
4	4.9	4	GV2L10	TPRST009 TPRSS009 TPRPM009	0.18-9
5.5	6.7	4	GV2L14	TPRST009 TPRSS009 TPRPM009	0.18-9
7.5	8.9	4	GV2L14	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
9	10.5	4	GV2L16	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
11	12.8	4	GV2L16	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
15	17	4	GV2L20	TPRST025 TPRSS025 TPRPM038	0.5-25 / 0.76-38
18.5	21	4	GV2L22	TPRST038 TPRSS038 TPRPM038	0.76-38
22	24	4	GV2L22	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
30	32	6	GV3L40	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80
37	39	6	GV3L50	TPRST065 TPRSS065 TPRPM080	3.25-65 / 4-80

# Protection Components / Starters - Coordination – IEC

## Type 2 coordination with circuit breakers

### 690 V

#### 0.06 to 37 kW at 690 V: Type 2 coordination

Applications power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit breaker (Trip class 5 to 15)	Standard Starters SIL Starters	
690 V			References	References	Setting range
P	I <sub>e</sub>	I <sub>q</sub>			
kW	A	kA			A
0.37	0.64	100	GV2L05	TPRST009 TPRSS009	0.18-9
0.55	0.87	4	GV2L05	TPRST009 TPRSS009	0.18-9
0.75	1.1	4	GV2L06	TPRST009 TPRSS009	0.18-9
1.1	1.6	4	GV2L07	TPRST009 TPRSS009	0.18-9
1.1	1.6	50	GV2L07 + LA9LB920	TPRST025 TPRSS025	0.5-25
1.5	2.1	4	GV2L07	TPRST009 TPRSS009	0.18-9
1.5	2.1	50	GV2L07 + LA9LB920	TPRST025 TPRSS025	0.5-25
2.2	2.8	4	GV2L08	TPRST025 TPRSS025	0.5-25
2.2	2.8	50	GV2L08 + LA9LB920	TPRST025 TPRSS025	0.5-25
3	3.8	4	GV2L08	TPRST025 TPRSS025	0.5-25
3	3.8	50	GV2L08 + LA9LB920	TPRST025 TPRSS025	0.5-25
4	4.9	4	GV2L10	TPRST025 TPRSS025	0.5-25
4	4.9	50	GV2L10 + LA9LB920	TPRST025 TPRSS025	0.5-25
5.5	6.7	4	GV2L14	TPRST025 TPRSS025	0.5-25
5.5	6.7	50	GV2L14 + LA9LB920	TPRST025 TPRSS025	0.5-25
7.5	8.9	4	GV2L14	TPRST025 TPRSS025	0.5-25
7.5	8.9	50	GV2L14 + LA9LB920	TPRST025 TPRSS025	0.5-25
9	10.5	4	GV2L16	TPRST025 TPRSS025	0.5-25
11	12.8	4	GV2L16	TPRST025 TPRSS025	0.5-25
11	12.8	3	GV3L18+LA9LB920	TPRST038 TPRSS038	0.76-38
15	17	4	GV2L20	TPRST025 TPRSS025	0.5-25
15	17	3	GV2L22 + LA9LB920	TPRST038 TPRSS038	0.76-38
18.5	21	4	GV2L22	TPRST038 TPRSS038	0.76-38
18.5	21	3	GV3L25 + LA9LB920	TPRST065 TPRSS065	3.25-65
22	24	4	GV2L22	TPRST065 TPRSS065	3.25-65
22	24	3	GV2L32 + LA9LB920	TPRST065 TPRSS065	3.25-65
30	32	6	GV3L40	TPRST065 TPRSS065	3.25-65
37	39	6	GV3L50	TPRST065 TPRSS065	3.25-65

## Protection components / Starters – SCCR Ratings – UL

### Short Circuit Current Ratings (SCCR)

UL File E39281 and File E48539, project 4788744687 Suitable for use on a circuit delivering not more than:								Standard Starters SIL Starters Power Interface Modules	
High SCCR						Standard SCCR		References	Setting range
Max Voltage 600 V Class J Fuse <sup>(1)</sup>		Max Voltage 480 V Circuit Breaker		Max Voltage 600 V Circuit Breaker		Max Voltage 600 V Circuit Breaker or Fuse			
SCCR	Maximum Amperage	SCCR	Maximum Amperage	SCCR	Maximum Amperage	SCCR	Maximum Amperage		
kA	A	kA	A	kA	A	kA	A		A
100	25	85	35	50	35	5	35	TPRST009 TPRSS009 TPRPM009	0.18-9
100	60	85	60	50	60	5	100	TPRST025 TPRSS025	0.5-25
100	100	85	60	50	60	5	125	TPRST038 TPRSS038 TPRPM038	0.76-38
100	125	85	110	50	110	5	250	TPRST065 TPRSS065	3.25-65
100	125	85	110	50	110	5	250	TPRST080 TPRSS080 TPRPM080	4-80

(1) When protected by any Class J or CC time-delay fuse (Class CC applicable up to 30 A only).

### Group Motor Rating

Suitable for group installation on a circuit delivering not more than:				Standard Starters SIL Starters	
Max voltage 600 V - Class J Fuse <sup>(1)</sup>		Max voltage 480 V - Circuit Breaker		References	Setting range
SCCR	Maximum Amperage	SCCR	Maximum Amperage		
kA	A	kA	A		A
5	90	5	90	TPRST009 TPRSS009	0.18-9
5	175	5	175	TPRST025 TPRSS025	0.5-25
5	175	5	175	TPRST038 TPRSS038	0.76-38
5	600	5	600	TPRST065 TPRSS065	3.25-65
5	600	5	600	TPRST080 TPRSS080	4-80

(1) When protected by any Class J or CC time-delay fuse.



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