

KT7 Assembly – Application Rating Chart (Ratings are dependent on type of application) ❶

Rating Index	Assembly Components		Manual Controller or Group Installation				Combination Motor Controller (Type F)				Self-Protected Combination Motor Controller (Type E)	
			480V		600V		480Y / 277V		600Y / 347V		480Y / 277V	600Y / 347V
	KT7	Minimum Contactor Size	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type E KAIC	Type E KAIC
KT7 + CA7 UL Assemblies (CL7 / CLU7/ CK7 / CKU7)												
1	KT7-25S-0.16A	CA7-9	65	65	47	47	65	65	47	47	65	47
2	KT7-25S-0.25A	CA7-9	65	65	47	47	65	65	47	47	65	47
3	KT7-25S-0.4A	CA7-9	65	65	47	47	65	65	47	47	65	47
4	KT7-25S-0.63A	CA7-9	65	65	47	47	65	65	47	47	65	47
5	KT7-25S-1A	CA7-9	65	65	47	47	65	65	47	47	65	47
6	KT7-25S-1.6A	CA7-9	65	65	47	47	65	65	47	47	65	47
7	KT7-25S-2.5A	CA7-9	65	65	30	10	65	65	30	10	65	~
8	KT7-25S-4A	CA7-9	65	50	30	~	65	~	30	~	~	~
--	KT7-25S-4A	CA7-30	65	~	30	~	65	~	30	~	~	~
9	KT7-25S-6.3A	CA7-9	65	50	30	~	65	~	~	~	~	~
11	KT7-25S-10A	CA7-9	65	50	30	~	65	~	~	~	~	~
12	KT7-25S-16A	CA7-12	30	~	30	~	30	~	~	~	~	~
14	KT7-25S-16A	CA7-30	30	~	30	~	30	~	~	~	~	~
15	KT7-25S-20A	CA7-16	30	~	30	~	10	~	~	~	~	~
16	KT7-25S-25A	CA7-23	30	~	30	~	~	~	~	~	~	~
--	KT7-32S-29A	CA7-30	30	10	30	~	~	~	~	~	~	~
--	KT7-32S-32A	CA7-37	30	10	30	~	~	~	~	~	~	~
17	KT7-25H-2.5A	CA7-9	65	65	30	10	65	65	30	10	65	~
18	KT7-25H-2.5A	CA7-30	65	65	30	30	65	65	30	30	65	30
19	KT7-25H-4A	CA7-9	65	65	30	~	65	65	30	~	~	~
21	KT7-25H-4A	CA7-30	65	65	30	30	65	65	30	30	65	30
22	KT7-25H-6.3A	CA7-9	65	65	30	~	65	65	30	~	~	~
23	KT7-25H-6.3A	CA7-30	65	65	30	~	65	65	30	30	65	30
24	KT7-25H-10A	CA7-9	65	65	30	~	65	65	30	~	~	~
27	KT7-25H-10A	CA7-30	65	65	30	~	65	65	30	30	65	30
28	KT7-25H-16A	CA7-12	65	65	30	~	65	65	30	~	~	~
30	KT7-25H-16A	CA7-30	65	65	30	~	65	65	30	30	65	30
31	KT7-25H-20A	CA7-23	65	65	30	~	65	65	~	~	~	~
32	KT7-25H-20A	CA7-30	65	65	30	~	65	65	~	~	65	~
33	KT7-25H-25A	CA7-23	65	65	30	~	65	65	~	~	~	~
34	KT7-25H-25A	CA7-30	65	65	30	~	65	65	~	~	65	~
--	KT7-32H-29A	CA7-30	65	65	30	~	~	~	~	~	~	~
--	KT7-32H-32A	CA7-37	65	65	30	~	~	~	~	~	~	~
36	KT7-45H-10A	CA7-30	65	65	30	30	65	65	30	30	65	30
37	KT7-45H-16A	CA7-30	65	65	30	30	65	65	30	30	65	30
38	KT7-45H-20A	CA7-30	65	65	30	30	65	65	30	30	65	30
39	KT7-45H-25A	CA7-30	65	65	30	30	65	65	30	30	65	30
41	KT7-45H-32A	CA7-30	65	65	30	30	65	65	30	30	65	30
45	KT7-45H-45A	CA7-37	65	65	18	10	65	65	~	~	65	~
46	KT7-45H-45A	CA7-43	65	65	18	10	65	65	~	~	65	~

Gray type indicates non-cataloged assembly. Contact your Sprecher + Schuh representative for information.

- ❶ The ratings in these tables assume connection between components are made with Sprecher + Schuh Connection Modules.
Engineering Practice allows wire connection as an alternative.

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Rating Index	Assembly Components		Manual Controller or Group Installation				Combination Motor Controller (Type F)				Self-Protected Combination Motor Controller (Type E)	
			480V		600V		480Y / 277V		600Y / 347V		480Y / 277V	600Y / 347V
	KT7	Minimum Contactor Size	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type 1 KAIC	Type 2 KAIC	Type E KAIC	Type E KAIC
KT7 + CA8 UL Assemblies (CL8 / CLU8)												
--	KT7-25S-(0.16A...1A)	CA8-05	65	65	47	~	65	~	47	~	~	~
--	KT7-25S-1.6A	CA8-05	65	~	47	~	65	~	47	~	~	~
--	KT7-25S-(2.5A...4A)	CA8-05	65	~	30	~	65	~	30	~	~	~
--	KT7-25S-6.3A	CA8-05	65	~	~	~	65	~	~	~	~	~
1M	KT7-25S-0.16A	CA8-09	65	65	47	~	65	65	47	~	~	~
2M	KT7-25S-0.25A	CA8-09	65	65	47	~	65	65	47	~	~	~
3M	KT7-25S-0.4A	CA8-09	65	65	47	~	65	65	47	~	~	~
4M	KT7-25S-0.63A	CA8-09	65	65	47	~	65	65	47	~	~	~
5M	KT7-25S-1A	CA8-09	65	65	47	~	65	65	47	~	~	~
6M	KT7-25S-1.6A	CA8-09	65	65	47	~	65	65	47	~	~	~
7M	KT7-25S-2.5A	CA8-09	65	~	30	~	65	~	30	~	~	~
8M	KT7-25S-4A	CA8-09	65	~	30	~	65	~	30	~	~	~
9M	KT7-25S-6.3A	CA8-09	65	~	30	~	65	~	~	~	~	~
10M	KT7-25S-10A	CA8-09	65	~	30	~	65	~	~	~	~	~
--	KT7-25S-(2.5A...4A)	CA8-12	65	~	30	~	65	~	30	~	~	~
--	KT7-25S-6.3A	CA8-12	65	~	~	~	65	~	~	~	~	~
11M	KT7-25S-10A	CA8-09	65	~	~	~	65	~	~	~	~	~
12M	KT7-25S-16A	CA8-12	30	~	30	~	30	~	~	~	~	~

Rating Index	Assembly Components			Self-Protected Combination Motor Controller (Type E KAIC) ❷		
	KT7	Minimum Contactor Size	Overload	208V-240V	480Y / 277V	600Y / 347V
KT7 + CA7 + CEP7 UL Assemblies (CLT7 / CLUT7)						
3B	KT7-25S-0.4A	CA7-9	CEP7-ED1AB	65	65	47
3B	KT7-25S-0.4A	CA7-9	CEP7-EEAB	65	65	47
5B	KT7-25S-1A	CA7-9	CEP7-ED1BB	65	65	47
5B	KT7-25S-1A	CA7-9	CEP7-EEBB	65	65	47
7B	KT7-25S-2.5A	CA7-9	CEP7-ED1CB	65	65	~
7B	KT7-25S-2.5A	CA7-9	CEP7-EECB	65	65	~
17B	KT7-25H-2.5A	CA7-9	CEP7-ED1CB	65	65	~
17B	KT7-25H-2.5A	CA7-9	CEP7-EECB	65	65	~
18B	KT7-25H-2.5A	CA7-23	CEP7-ED1CB	65	65	30
18B	KT7-25H-2.5A	CA7-23	CEP7-EECB	65	65	30
21B	KT7-25H-4A	CA7-23	CEP7-ED1CB	65	65	30
21B	KT7-25H-4A	CA7-23	CEP7-EECB	65	65	30
27B	KT7-25H-10A	CA7-30	CEP7-EEED	65	65	30
30B	KT7-25H-16A	CA7-30	CEP7-EEED	65	65	30
34B	KT7-25H-25A	CA7-30	CEP7-EEED	65	65	~
39B	KT7-45H-25A	CA7-30	CEP7-EEED	65	65	30
41B	KT7-45H-32A	CA7-30	CEP7-EEFD	65	65	30
42B	KT7-45H-32A	CA7-37	CEP7-EEFD	65	65	30
45B	KT7-45H-45A	CA7-37	CEP7-EEFD	65	65	~
46B	KT7-45H-45A	CA7-43	CEP7-EEFD	65	65	~

Definition of Type 2 short-circuit coordination per UL508

- The contactor or starter must not endanger persons or plant in the event of a short-circuit.
- The contactor or starter must be suitable for continuous use.
- No damage to the overload relay or other parts may occur with the exception of welding of the contactor or starter contacts if these can be easily separated without appreciable deformation (such as with a screwdriver).

In the event of a short-circuit, fast-opening, strong current-limiting KT7 motor protectors make it possible to build economical, fully short-circuit coordinated starter combinations in accordance with UL508E, Type 2 coordination.

Gray type indicates non-cataloged assembly. Contact your Sprecher+ Schuh representative for information.

❶ The ratings in these tables assume connection between components are made with Sprecher + Schuh Connection Modules.
Engineering Practice allows wire connection as an alternative.

❷ UL approved, File 125316.

KT7 Assembly – IEC Application Rating Chart (Ratings are dependent on type of application) ❶

Rating Index	Assembly Components		IEC kW Ratings for Standard Motors, 1500 rpm Max. kW, 50Hz ❷				Max. Short-Circuit Current [kA] IEC Type 1 Coordination				Max. Short-Circuit Current [kA] IEC Type 2 Coordination			
	KT7	Min. Contactor	230V	400V	500V	690V	230V	400V	500V	690V	230V	400V	500V	690V
KT7 + CA7 IEC Assemblies (CL7 / CLU7/ CK7 / CKU7)														
1	KTA7-25S-0.16A	CA7-9	~	~	0.06	0.06	100	100	65	50	100	100	65	50
2	KTA7-25S-0.25A	CA7-9	0.02	0.06	0.06	0.12	100	100	65	50	100	100	65	50
3	KTA7-25S-0.4A	CA7-9	0.06	0.09	0.12	0.18	100	100	65	50	100	100	65	50
4	KTA7-25S-0.63A	CA7-9	0.09	0.18	0.18	0.37	100	100	65	50	100	100	65	50
5	KTA7-25S-1A	CA7-9	0.12	0.25	0.37	0.55	100	100	65	50	100	100	65	50
6	KTA7-25S-1.6A	CA7-9	0.25	0.55	0.75	1.1	100	100	65	50	100	100	65	50
7	KTA7-25S-2.5A	CA7-9	0.55	0.75	1.1	1.8	100	65	50	8	65	50	50	8
8	KTA7-25S-4A	CA7-9	0.75	1.5	2.2	3	100	50	50	8	50	50	~	~
9	KTA7-25S-6.3A	CA7-9	1.5	2.2	3	4	100	50	50	4	50	50	~	~
10	KTA7-25S-10A	CA7-9	2.2	4	4	~	100	65	50	~	50	50	~	~
11	KTA7-25S-10A	CA7-12	2.2	4	5.5	5.5	100	65	50	4	50	50	50	~
--	KTA7-25S-10A	CA7-16	2.2	4	5.5	7.5	100	65	50	4	50	50	50	~
12	KTA7-25S-16A	CA7-12	4	5.5	~	~	100	65	~	~	50	50	~	~
--	KTA7-25S-16A	CA7-16	4	7.5	7.5	~	100	50	10	~	50	~	~	~
14	KTA7-25S-16A	CA7-23	4	7.5	10	10	100	50	10	3	50	50	~	~
15	KTA7-25S-20A	CA7-23	4	10	11	~	50	15	6	~	15	~	~	~
16	KTA7-25S-25A	CA7-23	6.3	11	13	~	50	15	6	~	15	~	~	~
17	KTA7-25H-2.5A	CA7-9	0.55	0.75	1.1	1.8	100	100	50	10	100	100	50	10
18	KTA7-25H-2.5A	CA7-23	0.55	0.75	1.1	1.8	100	100	50	10	100	100	50	10
19	KTA7-25H-4A	CA7-9	0.75	1.5	2.2	3	100	100	50	10	100	100	50	~
21	KTA7-25H-4A	CA7-23	0.75	1.5	2.2	3	100	100	50	50	100	100	50	50
22	KTA7-25H-6.3A	CA7-9	1.5	2.2	3	4	100	100	50	50	100	100	50	~
--	KTA7-25H-10A	CA7-9	2.2	4	4	~	100	65	50	~	100	65	~	~
24	KTA7-25H-10A	CA7-12	2.2	4	5.5	5.5	100	100	65	50	100	100	65	~
--	KTA7-25H-10A	CA7-16	2.2	4	5.5	7.5	100	100	65	50	100	100	65	50
--	KTA7-25H-16A	CA7-12	4	5.5	~	~	100	65	~	~	65	65	~	~
28	KTA7-25H-16A	CA7-16	4	7.5	7.5	~	100	65	50	~	65	65	50	~
--	KTA7-25H-16A	CA7-23	4	7.5	10	10	100	65	50	6	65	65	50	~
31	KTA7-25H-20A	CA7-23	4	10	11	~	65	65	25	~	65	65	25	~
33	KTA7-25H-25A	CA7-23	6.3	11	13	~	65	50	25	~	65	50	25	~
KT7 + CA8 IEC Assemblies (CL8 / CLU8)														
1M	KTA7-25S-0.16A	CA8-09	~	0.02	~	~	100	65	65	65	65	65	~	~
2M	KTA7-25S-0.25A	CA8-09	0.02	0.06	0.06	~	100	65	65	65	65	65	~	~
3M	KTA7-25S-0.4A	CA8-09	0.06	0.09	0.12	~	100	65	65	65	65	65	~	~
4M	KTA7-25S-0.63A	CA8-09	0.09	0.18	0.18	~	100	65	65	65	65	65	~	~
5M	KTA7-25S-1A	CA8-09	0.12	0.25	0.37	~	100	65	65	65	65	65	~	~
6M	KTA7-25S-1.6A	CA8-09	0.25	0.55	0.75	~	100	65	65	10	65	65	~	~
7M	KTA7-25S-2.5A	CA8-09	0.55	0.75	1.1	~	100	65	65	8	65	65	~	~
8M	KTA7-25S-4A	CA8-09	0.75	1.5	2.2	~	100	65	65	8	50	50	~	~
9M	KTA7-25S-6.3A	CA8-09	1.5	2.2	2.2	~	100	65	65	4	~	~	~	~
10M	KTA7-25S-10A	CA8-09	2.2	4	4	~	100	65	65	4	~	~	~	~
11M	KTA7-25S-10A	CA8-12	2.2	4	4	~	100	65	65	4	~	~	~	~
12M	KTA7-25S-16A	CA8-12	4	5.5	~	~	100	50	50	3	~	~	~	~

Gray type indicates non-cataloged assembly. Contact your Sprecher+ Schuh representative for information.

❶ The ratings in these tables assume connection between components are made with Sprecher + Schuh Connection Modules.
Engineering Practice allows wire connection as an alternative.

❷ kW ratings shown in the table are for reference. Final selection of the starter depends upon the actual motor full-load current and service factor.