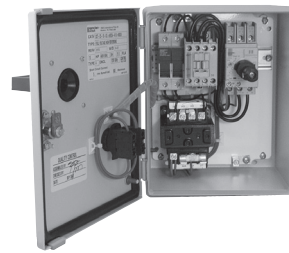


**Enclosed Non-Reversing Combination Controller, AC Operation - Type 4 / 12**

Amp / Horsepower Rating				Painted Steel, Type 4 / 12 Enclosure						
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Response Current	Index ④	Catalog Number ⑤⑦	Price	Dimension Code	
Three Phase										
200V	230V	460V	575V							
<b>KTA7-25S Standard Interrupting Capacity</b>										
~	~	~	~	0.10...0.16	2.1	1	CX7-9-10- <b>*</b> -AS0.16A-A10-WG ⓧ	863.59	W6	
~	~	~	~	0.16...0.25	3.3	2	CX7-9-10- <b>*</b> -AS0.25A-A10-WG ⓧ	863.59	W6	
~	~	~	~	0.25...0.40	5.2	3	CX7-9-10- <b>*</b> -AS0.4A-A10-WG ⓧ	863.59	W6	
~	~	~	~	0.40...0.63	8.2	4	CX7-9-10- <b>*</b> -AS0.63A-A10-WG ⓧ	896.29	W6	
~	~	1/2	3/4	0.63...1.0	13	5	CX7-9-10- <b>*</b> -AS1A-A10-WG ⓧ	896.29	W6	
~	~	1	1	1.0...1.6	21	6	CX7-9-10- <b>*</b> -AS1.6A-A10-WG ⓧ	896.29	W6	
1/2	3/4	1-1/2	2	1.6...2.5	33	7	CX7-9-10- <b>*</b> -AS2.5A-A10-WG ⓧ	896.29	W6	
1	1	3	3	2.5...4	52	8	CX7-9-10- <b>*</b> -AS4A-A10-WG ⓧ	896.29	W6	
1-1/2	2	5	~	4...6.3	82	9	CX7-9-10- <b>*</b> -AS6.3A-A10-WG ⓧ	896.29	W6	
3	3	7-1/2	~	6.3...10	130	11	CX7-12-10- <b>*</b> -AS10A-A10-WG ⓧ	930.02	W6	
5	5	10	~	10...16	208	12	CX7-16-10- <b>*</b> -AS16A-A10-WG ⓧ	982.14	W6	
5	7-1/2	15	~	14.5...20	260	15	CX7-23-10- <b>*</b> -AS20A-A10-WG ⓧ	1,001.56	W6	
<b>KTA7-25H High Interrupting Capacity</b>										
1/2	3/4	1-1/2	2	1.6...2.5	33	17	CX7-9-10- <b>*</b> -AH2.5A-A10-WG ⓧ	954.55	W6	
1	1	3	3	2.5...4	52	19	CX7-9-10- <b>*</b> -AH4A-A10-WG ⓧ	954.55	W6	
1-1/2	2	5	5	4...6.3	82	22	CX7-9-10- <b>*</b> -AH6.3A-A10-WG ⓧ	954.55	W6	
3	3	7-1/2	10	6.3...10	130	24	CX7-12-10- <b>*</b> -AH10A-A10-WG ⓧ	1,030.18	W6	
5	5	10	15	10...16	208	28	CX7-16-10- <b>*</b> -AH16A-A10-WG ⓧ	1,049.59	W6	
5	7-1/2	15	~	14.5...20	260	31	CX7-23-10- <b>*</b> -AH20A-A10-WG ⓧ	1,070.03	W6	
5	7-1/2	15	~	18...25	325	33	CX7-23-10- <b>*</b> -AH25A-A10-WG ⓧ	1,070.03	W6	
<b>KTA7-45H High Interrupting Capacity</b>										
3	3	7-1/2	10	6.3...10	130	36	CX7-30-10- <b>*</b> -AH10A-A10-WG ⓧ	1,310.20	W7	
5	5	10	15	10...16	208	37	CX7-30-10- <b>*</b> -AH16A-A10-WG ⓧ	1,310.20	W7	
5	7-1/2	15	20	14.5...20	260	38	CX7-30-10- <b>*</b> -AH20A-A10-WG ⓧ	1,310.20	W7	
7-1/2	10	20	20	18...25	325	39	CX7-30-10- <b>*</b> -AH25A-A10-WG ⓧ	1,310.20	W7	
7-1/2	10	20	25	23...32	416	41	CX7-30-10- <b>*</b> -AH32A-A10-WG ⓧ	1,394.01	W7	
10	10	25	~	32...45	585	45	CX7-37-10- <b>*</b> -AH45A-A10-WG ⓧ	1,409.34	W7	
10	15	30	~	32...45	585	46	CX7-43-10- <b>*</b> -AH45A-A10-WG ⓧ	1,863.11	W7	

Painted Steel, Type 4 / 12 Enclosure



**Includes:**

- Type 4 / 12 enclosure - watertight, dusttight
- KTA7 "Type E/F" Self-protected Combination Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1 or KT7-45-TE)
- CA7 contactor (for remote operation), AC coil
- Power wiring
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④
- Pilot device shown is factory installed option

See page F109 for factory installed modifications

**Contactor AC Coil Codes (\*) ⑤**

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V-240V
240	220V	240V
277	240V	277V
380 ⑦	380V-400V	440V
480 ⑦	440V	480V
600 ⑦	550v	600V



This item is available in the **ORANGE EXPRESS** 3-day shipping program

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.

③ CX7 may be applied to single phase loads. See footnote 1 for device selection criteria. To order single phase unit, change "CX7" in catalog number to "CBX7". Three pole series connection will be provided. Ex: Change CX7-9-10-**\***-0.16A-A10-WG to CBX7-9-10-**\***-0.16A-A10-WJ.


④ A red and yellow handle may be selected instead of the standard gray and black handle. Change "WG" suffix to "WJ". Ex: Change CX7-9-10-**\***-0.16A-A10-WG to CX7-9-10-**\***-0.16A-A10-WJ.

⑤ Other voltages available, see Section A in this catalog.

⑥ KAIC Assembly Rating Index. See pages F73-F76 for Application Rating Guide.

⑦ Catalog number (-A10) includes front-mounted auxiliary KT7-PE1-10 with 300 VAC maximum control circuit matching line voltage, or provided from separate source, used to de-energize contactor coil under fault condition (auxiliary not available for customer use). For control circuits greater than 300 VAC, which is common with line voltage, the auxiliary will not be wired into the control circuit since the contactor coil will be de-energized when KTA7 is tripped due to overload or short circuit; therefore, the KT7-PE1-10 auxiliary is available for customer use.

### Enclosed Non-Reversing Combination Controller, Electronic DC Coil - Type 4 / 12

Amp / Horsepower Rating					Painted Steel, Type 4 / 12 Enclosure						
					O/L Relay Ampere Range	Magnetic Response Current	Index	Catalog Number	Price	Dimension Code	
											Max. Horsepower
200V	230V	460V	575V								
<b>KTA7-25S Standard Interrupting Capacity</b>											
~	~	~	~	0.10...0.16	2.1	1	CX7-9E-10-* <u>AS0.16A</u> -A10-WG	1,084.34	W6		
~	~	~	~	0.16...0.25	3.3	2	CX7-9E-10-* <u>AS0.25A</u> -A10-WG	1,084.34	W6		
~	~	~	~	0.25...0.40	5.2	3	CX7-9E-10-* <u>AS0.4A</u> -A10-WG	1,084.34	W6		
~	~	~	~	0.40...0.63	8.2	4	CX7-9E-10-* <u>AS0.63A</u> -A10-WG	1,116.02	W6		
~	~	1/2	3/4	0.63...1.0	13	5	CX7-9E-10-* <u>AS1A</u> -A10-WG	1,116.02	W6		
~	~	1	1	1.0...1.6	21	6	CX7-9E-10-* <u>AS1.6A</u> -A10-WG	1,116.02	W6		
1/2	3/4	1-1/2	2	1.6...2.5	33	7	CX7-9E-10-* <u>AS2.5A</u> -A10-WG	1,116.02	W6		
1	1	3	3	2.5...4	52	8	CX7-9E-10-* <u>AS4A</u> -A10-WG	1,116.02	W6		
1-1/2	2	5	~	4...6.3	82	9	CX7-9E-10-* <u>AS6.3A</u> -A10-WG	1,116.02	W6		
3	3	7-1/2	~	6.3...10	130	11	CX7-12E-10-* <u>AS10A</u> -A10-WG	1,180.41	W6		
5	5	10	~	10...16	208	12	CX7-16E-10-* <u>AS16A</u> -A10-WG	1,253.99	W6		
5	7-1/2	15	~	14.5...20	260	15	CX7-23E-10-* <u>AS20A</u> -A10-WG	1,295.9	W6		
<b>KTA7-25H High Interrupting Capacity</b>											
1/2	3/4	1-1/2	2	1.6...2.5	33	17	CX7-9E-10-* <u>AH2.5A</u> -A10-WG	1,175.30	W6		
1	1	3	3	2.5...4	52	19	CX7-9E-10-* <u>AH4A</u> -A10-WG	1,175.30	W6		
1/1/2	2	5	5	4...6.3	82	22	CX7-9E-10-* <u>AH6.3A</u> -A10-WG	1,175.30	W6		
3	3	7-1/2	10	6.3...10	130	24	CX7-12E-10-* <u>AH10A</u> -A10-WG	1,278.52	W6		
5	5	10	15	10...16	208	28	CX7-16E-10-* <u>AH16A</u> -A10-WG	1,321.45	W6		
5	7-1/2	15	~	14.5...20	260	31	CX7-23E-10-* <u>AH20A</u> -A10-WG	1,363.35	W6		
5	7-1/2	15	~	18...25	325	33	CX7-23E-10-* <u>AH25A</u> -A10-WG	1,363.35	W6		
<b>KTA7-45H High Interrupting Capacity</b>											
3	3	7-1/2	10	6.3...10	130	36	CX7-30E-10-* <u>AH10A</u> -A10-WG	1,645.42	W7		
5	5	10	15	10...16	208	37	CX7-30E-10-* <u>AH16A</u> -A10-WG	1,645.42	W7		
5	7-1/2	15	20	14.5...20	260	38	CX7-30E-10-* <u>AH20A</u> -A10-WG	1,645.42	W7		
7-1/2	10	20	20	18...25	325	39	CX7-30E-10-* <u>AH25A</u> -A10-WG	1,645.42	W7		
7-1/2	10	20	25	23...32	416	41	CX7-37E-10-* <u>AH32A</u> -A10-WG	1,741.49	W7		
10	10	25	~	32...45	585	45	CX7-37E-10-* <u>AH45A</u> -A10-WG	1,790.54	W7		
10	15	30	~	32...45	585	46	CX7-43E-10-* <u>AH45A</u> -A10-WG	1,854.93	W7		

#### Includes:

- Type 4 / 12 enclosure - watertight, dusttight
- KT7 "Type E/F" Combination Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1 or KT7-45-TE)
- CA7 contactor (for remote operation), Electronic DC coil
- Power wiring
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN)
- Pilot device shown is factory installed option

See page F109 for factory installed modifications

#### Contactors Electronic DC Coil Codes (\*)

DC Coil Codes	Voltage
12E	12V
24E	24V
36E	36-48V
48E	48-72V
110E	110-125V
220E	220-250V

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.

③ CX7 may be applied to single phase loads. Contact factory for these specifications.

④ A red and yellow handle may be selected instead of the standard gray and black handle. Change "WG" suffix to "WJ". Ex: Change CX7-9E-10-\*0.16A-A10-WG to CX7-9E-10-\*0.16A-A10-WJ.

⑤ CX7-9E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils.

⑥ KAIC Assembly Rating Index. See pages F73-F76 for Application Rating Guide.

#### Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Code tables on this page for codes
Select modifications if required	

**Enclosed Reversing Combination Controller, AC Operation - Type 4 / 12**

Amp / Horsepower Rating				Painted Steel, Type 4 / 12 Enclosure						
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Response Current	Index ④	Catalog Number ⑤⑦	Price	Dimension Code	
Three Phase										
200V	230V	460V	575V							
<b>KTA7-25S Standard Interrupting Capacity</b>										
~	~	~	~	0.10...0.16	2.1	1	CXU7-9-22-*-AS0.16A-A10-WG	945.35	W6	
~	~	~	~	0.16...0.25	3.3	2	CXU7-9-22-*-AS0.25A-A10-WG	945.35	W6	
~	~	~	~	0.25...0.40	5.2	3	CXU7-9-22-*-AS0.4A-A10-WG	945.35	W6	
~	~	~	~	0.40...0.63	8.2	4	CXU7-9-22-*-AS0.63A-A10-WG	978.05	W6	
~	~	1/2	3/4	0.63...1.0	13	5	CXU7-9-22-*-AS1A-A10-WG	978.05	W6	
~	~	1	1	1.0...1.6	21	6	CXU7-9-22-*-AS1.6A-A10-WG	978.05	W6	
1/2	3/4	1-1/2	2	1.6...2.5	33	7	CXU7-9-22-*-AS2.5A-A10-WG	978.05	W6	
1	1	3	3	2.5...4	52	8	CXU7-9-22-*-AS4A-A10-WG	978.05	W6	
1-1/2	2	5	~	4...6.3	82	9	CXU7-9-22-*-AS6.3A-A10-WG	978.05	W6	
3	3	7-1/2	~	6.3...10	130	11	CXU7-12-22-*-AS10A-A10-WG	1,017.91	W6	
5	5	10	~	10...16	208	12	CXU7-16-22-*-AS16A-A10-WG	1,076.17	W6	
5	7-1/2	15	~	14.5...20	260	15	CXU7-23-22-*-AS20A-A10-WG	1,099.67	W6	
<b>KTA7-25H High Interrupting Capacity</b>										
1/2	3/4	1-1/2	2	1.6...2.5	33	17	CXU7-9-22-*-AH2.5A-A10-WG	1,035.29	W6	
1	1	3	3	2.5...4	52	19	CXU7-9-22-*-AH4A-A10-WG	1,035.29	W6	
1-1/2	2	5	5	4...6.3	82	22	CXU7-9-22-*-AH6.3A-A10-WG	1,035.29	W6	
3	3	7-1/2	10	6.3...10	130	24	CXU7-12-22-*-AH10A-A10-WG	1,120.11	W6	
5	5	10	15	10...16	208	28	CXU7-16-22-*-AH16A-A10-WG	1,143.62	W6	
5	7-1/2	15	~	14.5...20	260	31	CXU7-23-22-*-AH20A-A10-WG	1,168.15	W6	
5	7-1/2	15	~	18...25	325	33	CXU7-23-22-*-AH25A-A10-WG	1,168.15	W6	
<b>KTA7-45H High Interrupting Capacity</b>										
3	3	7-1/2	10	6.3...10	130	36	CXU7-30-22-*-AH10A-A10-WG	1,369.48	W7	
5	5	10	15	10...16	208	37	CXU7-30-22-*-AH16A-A10-WG	1,369.48	W7	
5	7-1/2	15	20	14.5...20	260	38	CXU7-30-22-*-AH20A-A10-WG	1,369.48	W7	
7-1/2	10	20	20	18...25	325	39	CXU7-30-22-*-AH25A-A10-WG	1,369.48	W7	
7-1/2	10	20	25	23...32	416	41	CXU7-37-22-*-AH32A-A10-WG	1,316.34	W7	
10	10	25	~	32...45	585	45	CXU7-37-22-*-AH45A-A10-WG	1,487.01	W7	
10	15	30	~	32...45	585	46	CXU7-43-22-*-AH45A-A10-WG	1,543.22	W7	



**Includes:**

- Type 4 / 12 enclosure - watertight, dusttight
- KT7 "Type E/F" Combination Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1 or KT7-45-TE)
- CA7 contactors (for remote operation), AC coil
- Power wiring
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④
- Control power transformer, pilot device, terminals and other equipment shown are factory installed options

See page F109 for factory installed modifications

**Contactor AC Coil Codes (\*) ⑤**


AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V-240V
240	220V	240V
277	240V	277V
380 ⑦	380V-400V	440V
480 ⑦	440V	480V
600 ⑦	550v	600V

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.
- ② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.
- ③ CXU7 may be applied to single phase loads. Contact factory for these applications.
- ④ A red and yellow handle may be selected instead of the standard gray and black handle. Change "WG" suffix to "WJ". Ex: Change CXU7-9-10-\*-0.16A-A10-WG to CXU7-9-10-\*-0.16A-A10-WJ.

- ⑤ Other voltages available, see Section A in this catalog.
- ⑥ KAIC Assembly Rating Index. See pages F73-F76 for Application Rating Guide.
- ⑦ Catalog number (-A10) includes front-mounted auxiliary KT7-PE1-10 with 300 VAC maximum control circuit matching line voltage, or provided from separate source, used to de-energize contactor coil under fault condition (auxiliary not available for customer use). For control circuits greater than 300 VAC, which is common with line voltage, the auxiliary will not be wired into the control circuit since the contactor coil will be de-energized when KTA7 is tripped due to overload or short circuit; therefore, the KT7-PE1-10 auxiliary is available for customer use.

### Enclosed Reversing Combination Controller, Electronic DC Coil - Type 4 / 12

Amp / Horsepower Rating					Painted Steel, Type 4 / 12 Enclosure					
					O/L Relay Ampere Range	Magnetic Response Current	Index Ⓞ	Catalog Number ④	Price	Dimension Code
Three Phase				O/L Relay Ampere Range	Magnetic Response Current	Index Ⓞ	Catalog Number ④	Price	Dimension Code	
200V	230V	460V	575V							
<b>KTA7-25S Standard Interrupting Capacity</b>										
~	~	~	~	0.10...0.16	2.1	1	CXU7-9E-22- <b>*</b> -AS0.16A-A10-WG	1,190.63	W6	
~	~	~	~	0.16...0.25	3.3	2	CXU7-9E-22- <b>*</b> -AS0.25A-A10-WG	1,190.63	W6	
~	~	~	~	0.25...0.40	5.2	3	CXU7-9E-22- <b>*</b> -AS0.4A-A10-WG	1,190.63	W6	
~	~	~	~	0.40...0.63	8.2	4	CXU7-9E-22- <b>*</b> -AS0.63A-A10-WG	1,222.31	W6	
~	~	1/2	3/4	0.63...1.0	13	5	CXU7-9E-22- <b>*</b> -AS1A-A10-WG	1,222.31	W6	
~	~	1	1	1.0...1.6	21	6	CXU7-9E-22- <b>*</b> -AS1.6A-A10-WG	1,222.31	W6	
1/2	3/4	1-1/2	2	1.6...2.5	33	7	CXU7-9E-22- <b>*</b> -AS2.5A-A10-WG	1,222.31	W6	
1	1	3	3	2.5...4	52	8	CXU7-9E-22- <b>*</b> -AS4A-A10-WG	1,222.31	W6	
1-1/2	2	5	~	4...6.3	82	9	CXU7-9E-22- <b>*</b> -AS6.3A-A10-WG	1,222.31	W6	
3	3	7-1/2	~	6.3...10	130	11	CXU7-12E-22- <b>*</b> -AS10A-A10-WG	1,308.16	W6	
5	5	10	~	10...16	208	12	CXU7-16E-22- <b>*</b> -AS16A-A10-WG	1,390.94	W6	
5	7-1/2	15	~	14.5...20	260	15	CXU7-23E-22- <b>*</b> -AS20A-A10-WG	1,440.00	W6	
<b>KTA7-25H High Interrupting Capacity</b>										
1/2	3/4	1-1/2	2	1.6...2.5	33	17	CXU7-9E-22- <b>*</b> -AH2.5A-A10-WG	1,282.61	W6	
1	1	3	3	2.5...4	52	19	CXU7-9E-22- <b>*</b> -AH4A-A10-WG	1,282.61	W6	
1-1/2	2	5	5	4...6.3	82	22	CXU7-9E-22- <b>*</b> -AH6.3A-A10-WG	1,282.61	W6	
3	3	7-1/2	10	6.3...10	130	24	CXU7-12E-22- <b>*</b> -AH10A-A10-WG	1,410.36	W6	
5	5	10	15	10...16	208	28	CXU7-16E-22- <b>*</b> -AH16A-A10-WG	1,458.39	W6	
5	7-1/2	15	~	14.5...20	260	31	CXU7-23E-22- <b>*</b> -AH20A-A10-WG	1,509.49	W6	
5	7-1/2	15	~	18...25	325	33	CXU7-23E-22- <b>*</b> -AH25A-A10-WG	1,509.49	W6	
<b>KTA7-45H High Interrupting Capacity</b>										
3	3	7-1/2	10	6.3...10	130	36	CXU7-30E-22- <b>*</b> -AH10A-A10-WG	1,771.13	W7	
5	5	10	15	10...16	208	37	CXU7-30E-22- <b>*</b> -AH16A-A10-WG	1,771.13	W7	
5	7-1/2	15	20	14.5...20	260	38	CXU7-30E-22- <b>*</b> -AH20A-A10-WG	1,771.13	W7	
7-1/2	10	20	20	18...25	325	39	CXU7-30E-22- <b>*</b> -AH25A-A10-WG	1,771.13	W7	
7-1/2	10	20	25	23...32	416	41	CXU7-37E-22- <b>*</b> -AH32A-A10-WG	1,939.76	W7	
10	10	25	~	32...45	585	45	CXU7-37E-22- <b>*</b> -AH45A-A10-WG	2,019.47	W7	
10	15	30	~	32...45	585	46	CXU7-43E-22- <b>*</b> -AH45A-A10-WG	2,088.97	W7	

#### Includes:

- Type 4 / 12 enclosure - watertight, dustight
- KT7 "Type E/F" Combination Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE or KT7-45-TE)
- CA7 contactors (for remote operation), Electronic DC coil
- Power wiring
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④
- Control power transformer, pilot device, terminals and other equipment shown are factory installed options

See page F109 for factory installed modifications

#### Contactors Electronic DC Coil Codes (\*) ⑤

DC Coil Codes	Voltage
12E	12V
24E	24V
36E	36-48V
48E	48-72V
110E	110-125V
220E	220-250V

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.

③ CXU7 may be applied to single phase loads. Contact factory for these applications.

④ A red and yellow handle may be selected instead of the standard gray and black handle. Change "WG" suffix to "WJ". Ex: Change CXU7-9E-10-**\***-0.16A-A10-WG to CXU7-9E-10-**\***-0.16A-A10-WJ.

⑤ CXU7-9E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils.

⑥ KAIC Assembly Rating Index. See pages F73-F76 for Application Rating Guide.

#### Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Code tables on this page for codes
Select modifications if required	



**Non-Reversing and Reversing CX7 Combination Controller Modifications (Factory Assembled)**

Description	Add Suffix to Catalog Number	Price Adder
<b>Pilot Devices ①</b>		
START-STOP multi-function pushbutton	3U	199.29
ON-OFF multi-function pushbutton	4U	199.29
FOR-STOP-REV multi-function pushbutton	3U	357.70
UP-STOP-DOWN multi-function pushbutton	4U	357.70
OPEN-STOP-CLOSE multi-function pushbutton	5U	357.70
HAND-AUTO selector switch	5	199.29
OFF-ON selector switch	6	199.29
HAND-OFF-AUTO selector switch	7	199.29
FOR-OFF-REV selector switch	6	199.29
UP-OFF-DOWN selector switch	7	199.29
OPEN-OFF-CLOSE selector switch	8	199.29
Pilot light only ②	1	136.95
Pilot lights only (2) ②	2	265.72
Pilot light w/ START-STOP multi-function pushbutton ③	13U	337.26
Pilot light w/ ON-OFF multi-function pushbutton ③	14U	337.26
Pilot light w/ HAND-AUTO selector switch ③	15	337.26
Pilot light w/ OFF-ON selector switch ③	16	337.26
Pilot light w/ HAND-OFF-AUTO selector switch ③	17	337.26
<b>Control Power Transformer</b>		
(with fused primary and secondary)	Replace (*) in catalog # with the following codes ④	
Primary volts      Secondary volts		
208                      120	XA	327.04
240                      120	XB	327.04
50 watt                480                      120	XC	327.04
Standard                575                      120	XD	327.04
Capacity                380                      110	XG	327.04
240                      24	XE	327.04
480                      24	XF	327.04
600                      24	XJ	327.04
<b>KT7 Auxiliaries &amp; Trip Contacts </b> Change "-A10-" to ...		
<b>Front mount 300V maximum</b>		
1 NO Auxiliary	-A10	56.21
1 NC Auxiliary	-A01	56.21
1 NO + 1 NC Auxiliary	-A11	63.36
2 NO Auxiliaries	-A20	63.36
1 NO SC+OL + 1 NC Auxiliary	-T10A01	80.74
1 NO SC+OL + 1 NO Auxiliary	-T10A10	80.74
<b>Side Mount 600V maximum</b>		
2 NC Auxiliaries	-AS02	66.43
2 NO Auxiliaries	-AS20	66.43
1 NO + 1 NC Auxiliary	-AS11	66.43
1 NC SC+OL + 1 NO Auxiliary	-R10	86.87
1 NC SC+OL + 1 NC Auxiliary	-R11	86.87

Description	Add Suffix to Catalog Number	Price Adder
<b>Additional KT7 Trip Contacts - Side Mount (600V max)</b>		
1 NO SC+OL + 1 NO SC	-R00	96.07
1 NO SC+OL + 1 NC SC	-R01	96.07
1 NC SC+OL + 1 NO SC	-R10	96.07
<b>KT7 Accessories</b>		
Undervoltage Release Module	Select coil voltage from table below	-UA-*      128.77
Shunt Release Module		-AA-*      128.77
<b>CA7 Auxiliary Contacts ⑤</b>		
1 NO Auxiliary	-S10	45.99
1 NC Auxiliary	-S01	45.99
1 NO + 1 NC Auxiliary	-S11	58.25
2 NO Auxiliaries	-S20	58.25
2 NC Auxiliaries	-S02	58.25
1 NO + 2 NC Auxiliary	-S12	65.41
2 NO + 1 NC Auxiliary	-S21	65.41
3 NO Auxiliaries	-S30	65.41
3 NC Auxiliaries	-S03	65.41
1 NO + 3 NC Auxiliary	-S13	76.65
3 NO + 1 NC Auxiliary	-S31	76.65
2 NO + 2 NC Auxiliary	-S22	76.65
4 NO Auxiliaries	-S40	76.65
4 NC Auxiliaries	-S04	76.65
<b>Alternate Aux. Contact Arrangement (CA7 only)</b>		
1 NC in lieu of standard 1 NO	-SX10	17.37
2 NC in lieu of standard 2 NO (on CXU7 only)	-SX2	17.37
<b>CA7 Contactor Accessories</b>		
Electronic Interface	-JE ④	96.07
Surge Suppressor RC	-C	55.19
Surge Suppressor Varistor	-V	40.88
<b>Unwired Terminal Blocks</b> Specify quantity (▼)	-▼TB	22.48

**F** Enclosed Motor Circuit Controllers

**-UA..-AA Coil Codes (\*)**

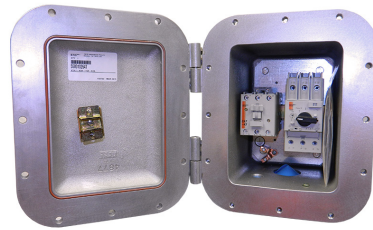
	AC Coil Code	Voltage Range	
		50 Hz	60 Hz
	24V	21V	24V
	28V	24V	28V
	120V	105V	120V
	127V	110V	127V
	230V	220...230V	~
	240V	~	240...260V
	277V	240V	277V
	460V	380...400V	400...460V
	480V	415V	480V
	600V	550V	600V

This item is available in the **ORANGE EXPRESS** 3-day shipping program

- ① Currently supply D7 multi-function pushbuttons as standard which do not require protective boots to meet Type 4X. See Section H in this catalog for description (all suffix's ending in "U").
- ② Factory modifications often change the enclosure size. Refer to factory for dimensions when critical to the installation.
- ③ Pilot Lights may be applied with 24VAC/VDC, 120VAC or 240VAC Control Circuit. Pilot Lights with 277 VAC...575VAC require a control circuit transformer.
- ④ CR17E-24 will be used. CR17E-12 by special order only.
- ⑤ Additional auxiliaries are per contactor. Number of auxiliaries is double for reversing applications. Multiply price adder by two (2).

### CX7 Explosion Proof Combination Controllers - NEMA Type 4/4X/7/9 with Type 4 Gaskets

Amp / Horsepower Rating				O/L Relay Ampere Range	Magnetic Response Current	Catalog Number ⑥	Price	Dimension Code
Max. Horsepower ①②③								
Three Phase								
200V	230V	460V	575V					
<b>KTA7-25S Standard Interrupting Capacity</b>								
~	~	~	~	0.10...0.16	2.1	CX7-9-10-*AS0.16A-A10-EZ	1,949.98	EZ
~	~	~	~	0.16...0.25	3.3	CX7-9-10-*AS0.25A-A10-EZ	1,949.98	EZ
~	~	~	~	0.25...0.40	5.2	CX7-9-10-*AS0.4A-A10-EZ	1,949.98	EZ
~	~	~	~	0.40...0.63	8.2	CX7-9-10-*AS0.63A-A10-EZ	1,988.81	EZ
~	~	1/2	3/4	0.63...1.0	13	CX7-9-10-*AS1A-A10-EZ	1,988.81	EZ
~	~	1	1	1.0...1.6	21	CX7-9-10-*AS1.6A-A10-EZ	1,988.81	EZ
1/2	3/4	1-1/2	2	1.6...2.5	33	CX7-9-10-*AS2.5A-A10-EZ	1,988.81	EZ
1	1	3	3	2.5...4	52	CX7-9-10-*AS4A-A10-EZ	1,988.81	EZ
1-1/2	2	5	~	4...6.3	82	CX7-9-10-*AS6.3A-A10-EZ	1,988.81	EZ
3	3	7-1/2	~	6.3...10	130	CX7-12-10-*AS10A-A10-EZ	2,024.58	EZ
5	5	10	~	10...16	208	CX7-16-10-*AS16A-A10-EZ	2,086.92	EZ
5	7-1/2	15	~	14.5...20	260	CX7-23-10-*AS20A-A10-EZ	2,108.39	EZ
<b>KTA7-25H High Interrupting Capacity</b>								
1/2	3/4	1-1/2	2	1.6...2.5	33	CX7-9-10-*AH2.5A-A10-EZ	2,058.31	EZ
1	1	3	3	2.5...4	52	CX7-9-10-*AH4A-A10-EZ	2,058.31	EZ
1-1/2	2	5	5	4...6.3	82	CX7-9-10-*AH6.3A-A10-EZ	2,058.31	EZ
3	3	7-1/2	10	6.3...10	130	CX7-12-10-*AH10A-A10-EZ	2,145.18	EZ
5	5	10	15	10...16	208	CX7-16-10-*AH16A-A10-EZ	2,166.64	EZ
5	7-1/2	15	~	14.5...20	260	CX7-23-10-*AH20A-A10-EZ	2,188.10	EZ
5	7-1/2	15	~	18...25	325	CX7-23-10-*AH25A-A10-EZ	2,188.10	EZ
<b>KTA7-45H High Interrupting Capacity</b>								
3	3	7-1/2	10	6.3...10	130	CX7-30-10-*AH10A-A10-EZ	2,400.68	EZ
5	5	10	15	10...16	208	CX7-30-10-*AH16A-A10-EZ	2,400.68	EZ
5	7-1/2	15	20	14.5...20	260	CX7-30-10-*AH20A-A10-EZ	2,400.68	EZ
7-1/2	10	20	20	18...25	325	CX7-30-10-*AH25A-A10-EZ	2,400.68	EZ
7-1/2	10	20	25	23...32	416	CX7-30-10-*AH32A-A10-EZ	2,439.51	EZ
10	10	25	~	32...45	585	CX7-37-10-*AH45A-A10-EZ	2,515.14	EZ
10	15	30	~	32...45	585	CX7-43-10-*AH45A-A10-EZ	2,536.60	EZ



#### Includes:

- Class I, Div I, Group B, C & D – Class II, Div I, Group E, F & G enclosure Class III, Zone I, IIB & H2
- KT7 “Type E” Self-protected Combination Manual Motor Controller with 1 NO front mount auxiliary contact (Cat.# KT7-PE1-10)
- Terminal Adaptor for Combo Type E/F Applications (Cat.# KT7-25-TE or KT7-45-TE)
- CA7 contactor (for remote operation), AC coil
- Power wiring

#### Modifications (Factory Assembled)

KT7 Auxiliaries & Trip Contacts,	Change “A10” in Cat. # to...	Price Adder
<b>Front Mount 300V max.</b>		
1 NC Auxiliary	-A01	56.21
1 NO + 1 NC Auxiliary	-A11	63.36
2 NO Auxiliaries	-A20	63.36
1 NO SC+OL + 1 NC Auxiliary	-T10A01	80.74
1 NO SC+OL + 1 NO Auxiliary	-T10A10	80.74
<b>Side Mount 600V max.</b>		
2 NO Auxiliaries	-AS20	66.43
1 NO + 1 NC Auxiliary	-AS11	66.43
1 NC SC+OL + 1 NO Auxiliary	-R10	86.87
1 NC SC+OL + 1 NC Auxiliary	-R11	86.87
<b>CA7 Contactor Accessories</b>		
1 NC Auxiliary	-S01	45.99
1 NO Auxiliary	-S10	45.99
Electronic Interface	-JE	96.07
Surge Suppressor RC	-C	55.19
Surge Suppressor Varistor	-V	40.88
<b>Enclosure Modifications</b>		
Dual START/STOP pushbutton	3	355.66
ON/OFF selector switch	6	355.66
H-O-A	7	355.66
Breather/Drain	-BD	154.32

#### Contactor AC Coil Codes (\*) ④

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	200V-220V	208V-240V
240	220V	240V
277	240V	277V
380 ⑤	380V-400V	440V
480 ⑤	440V	480V
600 ⑤	550v	600V

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.

③ CX7 may be applied to single phase loads. See footnote 1 for device selection criteria. To order single phase unit, change “CX7” in catalog number to “CBX7”. Three pole series connection will be provided. Ex: Change CX7-9-10-\*0.16A-A10-EZ to CBX7-9-10-\*0.16A-A10-EZ.

④ Other voltages available, see Section A in this catalog.

⑤ Catalog number (-A10) includes front-mounted auxiliary KT7-PE1-10 with 300 VAC maximum control circuit matching line voltage, or provided from separate source, used to de-energize contactor coil under fault condition (auxiliary not available for customer use). For control circuits greater than 300 VAC, which is common with line voltage, the auxiliary will not be wired into the control circuit since the contactor coil will be de-energized when KTA7 is tripped due to overload or short circuit; therefore, the KT7-PE1-10 auxiliary is available for customer use.

#### Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See tables on this page for codes
Select modifications if required	