

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 ⑤	Price	Dimension Code	
Three Phase										
200V	230V	460V	575V							
KTA7-25S Standard Interrupting Capacity										
~	~	~	~	0.10...0.16	2.1	1	CX7-9-10-*-AS0.16A-A10-WG	918	W6	
~	~	~	~	0.16...0.25	3.3	2	CX7-9-10-*-AS0.25A-A10-WG	918	W6	
~	~	~	~	0.25...0.40	5.2	3	CX7-9-10-*-AS0.4A-A10-WG	918	W6	
~	~	~	~	0.40...0.63	8.2	4	CX7-9-10-*-AS0.63A-A10-WG	953	W6	
~	~	~	1/2	0.63...1.0	13	5	CX7-9-10-*-AS1.0A-A10-WG	953	W6	
~	~	1/2	3/4	1.0...1.6	21	6	CX7-9-10-*-AS1.6A-A10-WG	953	W6	
1/2	1/2	1	1-1/2	1.6...2.5	33	7	CX7-9-10-*-AS2.5A-A10-WG	953	W6	
3/4	3/4	2	3	2.5...4	52	8	CX7-9-10-*-AS4.0A-A10-WG	953	W6	
1	1-1/2	3	~	4...6.3	82	9	CX7-9-10-*-AS6.3A-A10-WG	953	W6	
2	3	5	~	6.3...10	130	11	CX7-12-10-*-AS10A-A10-WG	988	W6	
3	~	10	~	10...16	208	12	CX7-16-10-*-AS16A-A10-WG	1044	W6	
5	5	~	~	14.5...20	260	15	CX7-23-10-*-AS20A-A10-WG	1065	W6	
KTA7-25H High Interrupting Capacity										
1/2	1/2	1	1-1/2	1.6...2.5	33	17	CX7-9-10-*-AH2.5A-A10-WG	1015	W6	
3/4	3/4	2	3	2.5...4	52	19	CX7-9-10-*-AH4.0A-A10-WG	1015	W6	
1	1-1/2	3	5	4...6.3	82	22	CX7-9-10-*-AH6.3A-A10-WG	1015	W6	
2	3	5	7-1/2	6.3...10	130	24	CX7-12-10-*-AH10A-A10-WG	1095	W6	
3	~	10	10	10...16	208	28	CX7-16-10-*-AH16A-A10-WG	1116	W6	
5	5	~	~	14.5...20	260	31	CX7-23-10-*-AH20A-A10-WG	1137	W6	
7-1/2	7-1/2	15	~	18...25	325	33	CX7-23-10-*-AH25A-A10-WG	1137	W6	
KTA7-45H High Interrupting Capacity										
2	3	5	7-1/2	6.3...10	130	36	CX7-30-10-*-AH10A-A10-WG	1392	W7	
3	~	10	10	10...16	208	37	CX7-30-10-*-AH16A-A10-WG	1392	W7	
5	5	~	15	14.5...20	260	38	CX7-30-10-*-AH20A-A10-WG	1392	W7	
~	7-1/2	20	20	18...25	325	39	CX7-30-10-*-AH25A-A10-WG	1392	W7	
7-1/2	10	20	25	23...32	416	41	CX7-30-10-*-AH32A-A10-WG	1482	W7	
10	10	25	30	32...45	585	45	CX7-37-10-*-AH45A-A10-WG	1498	W7	
10	15	30	~	32...45	585	46	CX7-43-10-*-AH45A-A10-WG	1521	W7	

Includes:

- Type 12 / 4 enclosure - watertight, dusttight
- KTA7 "Type E/F" Self-protected Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25[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 F105 for factory installed modifications

Contactor

AC Coil Codes (*)

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	380V-400V	440V
480	440V	480V
600	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 manual starter 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-4.0A.
- 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. *Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.*
- ⑥ KAIC Assembly Rating Index. See pages F71-F73 for Application Rating Guide.

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

Amp / Horsepower Rating							Painted Steel, Type 4 / 12 Enclosure			
							Dimension Code	Price	Catalog Number ④	
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Response Current	Index ⑤				
Three Phase										
200V	230V	460V	575V							
KTA7-25S Standard Interrupting Capacity										
~	~	~	~	0.10...0.16	2.1	1	CX7-9E-10-**-AS0.16A-A10-WG	1153	W6	
~	~	~	~	0.16...0.25	3.3	2	CX7-9E-10-**-AS0.25A-A10-WG	1153	W6	
~	~	~	~	0.25...0.40	5.2	3	CX7-9E-10-**-AS0.4A-A10-WG	1153	W6	
~	~	~	~	0.40...0.63	8.2	4	CX7-9E-10-**-AS0.63A-A10-WG	1186	W6	
~	~	~	1/2	0.63...1.0	13	5	CX7-9E-10-**-AS1.0A-A10-WG	1186	W6	
~	~	1/2	3/4	1.0...1.6	21	6	CX7-9E-10-**-AS1.6A-A10-WG	1186	W6	
1/2	1/2	1	1-1/2	1.6...2.5	33	7	CX7-9E-10-**-AS2.5A-A10-WG	1186	W6	
3/4	3/4	2	3	2.5...4	52	8	CX7-9E-10-**-AS4.0A-A10-WG	1186	W6	
1	1-1/2	3	~	4...6.3	82	9	CX7-9E-10-**-AS6.3A-A10-WG	1186	W6	
2	3	5	~	6.3...10	130	11	CX7-12E-10-**-AS10A-A10-WG	1255	W6	
3	~	10	~	10...16	208	12	CX7-16E-10-**-AS16A-A10-WG	1333	W6	
5	5	~	~	14.5...20	260	15	CX7-23E-10-**-AS20A-A10-WG	1377	W6	
KTA7-25H High Interrupting Capacity										
1/2	1/2	1	1-1/2	1.6...2.5	33	17	CX7-9E-10-**-AH2.5A-A10-WG	1249	W6	
3/4	3/4	2	3	2.5...4	52	19	CX7-9E-10-**-AH4.0A-A10-WG	1249	W6	
1	1-1/2	3	5	4...6.3	82	22	CX7-9E-10-**-AH6.3A-A10-WG	1249	W6	
2	3	5	7-1/2	6.3...10	130	24	CX7-12E-10-**-AH10A-A10-WG	1359	W6	
3	~	10	10	10...16	208	28	CX7-16E-10-**-AH16A-A10-WG	1405	W6	
5	5	~	~	14.5...20	260	31	CX7-23E-10-**-AH20A-A10-WG	1449	W6	
7-1/2	7-1/2	15	~	18...25	325	33	CX7-23E-10-**-AH25A-A10-WG	1449	W6	
KTA7-45H High Interrupting Capacity										
2	3	5	7-1/2	6.3...10	130	36	CX7-30E-10-**-AH10A-A10-WG	1749	W7	
3	~	10	10	10...16	208	37	CX7-30E-10-**-AH16A-A10-WG	1749	W7	
5	5	~	15	14.5...20	260	38	CX7-30E-10-**-AH20A-A10-WG	1749	W7	
~	7-1/2	20	20	18...25	325	39	CX7-30E-10-**-AH25A-A10-WG	1749	W7	
7-1/2	10	20	25	23...32	416	41	CX7-37E-10-**-AH32A-A10-WG	1851	W7	
10	10	25	30	32...45	585	45	CX7-37E-10-**-AH45A-A10-WG	1903	W7	
10	15	30	~	32...45	585	46	CX7-43E-10-**-AH45A-A10-WG	1972	W7	

Includes:

- Type 12 / 4 enclosure - water-tight, dusttight
- KT7 "Type E/F" Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25[45]-TE)
- CA7 contactor (for remote operation), Electronic DC 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 F105 for factory installed modifications

Contactor Electronic DC Coil Codes (*) ⑤

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

Ordering Instructions

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

① Horsepower ratings shown in the table above are for reference. The final selection of the manual starter 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-4.0A.

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.

⑦ KAIC Assembly Rating Index. See pages F71-F73 for Application Rating Guide.

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 ⑤	Price	Dimension Code	
Three Phase										
200V	230V	460V	575V							
KTA7-25S Standard Interrupting Capacity										
~	~	~	~	0.10...0.16	2.1	1	CXU7-9-22-*AS0.16A-A10-WG	1005	W6	
~	~	~	~	0.16...0.25	3.3	2	CXU7-9-22-*AS0.25A-A10-WG	1005	W6	
~	~	~	~	0.25...0.40	5.2	3	CXU7-9-22-*AS0.4A-A10-WG	1005	W6	
~	~	~	~	0.40...0.63	8.2	4	CXU7-9-22-*AS0.63A-A10-WG	1039	W6	
~	~	~	1/2	0.63...1.0	13	5	CXU7-9-22-*AS1A-A10-WG	1039	W6	
~	~	1/2	3/4	1.0...1.6	21	6	CXU7-9-22-*AS1.6A-A10-WG	1039	W6	
1/2	1/2	1	1-1/2	1.6...2.5	33	7	CXU7-9-22-*AS2.5A-A10-WG	1039	W6	
3/4	3/4	2	3	2.5...4	52	8	CXU7-9-22-*AS4.0A-A10-WG	1039	W6	
1	1-1/2	3	~	4...6.3	82	9	CXU7-9-22-*AS6.3A-A10-WG	1039	W6	
2	3	5	~	6.3...10	130	11	CXU7-12-22-*AS10A-A10-WG	1082	W6	
3	~	10	~	10...16	208	12	CXU7-16-22-*AS16A-A10-WG	1144	W6	
5	5	~	~	14.5...20	260	15	CXU7-23-22-*AS20A-A10-WG	1169	W6	
KTA7-25H High Interrupting Capacity										
1/2	1/2	1	1-1/2	1.6...2.5	33	17	CXU7-9-22-*AH2.5A-A10-WG	1100	W6	
3/4	3/4	2	3	2.5...4	52	19	CXU7-9-22-*AH4.0A-A10-WG	1100	W6	
1	1-1/2	3	5	4...6.3	82	22	CXU7-9-22-*AH6.3A-A10-WG	1100	W6	
2	3	5	7-1/2	6.3...10	130	24	CXU7-12-22-*AH10A-A10-WG	1191	W6	
3	~	10	10	10...16	208	28	CXU7-16-22-*AH16A-A10-WG	1215	W6	
5	5	~	~	14.5...20	260	31	CXU7-23-22-*AH20A-A10-WG	1241	W6	
7-1/2	7-1/2	15	~	18...25	325	33	CXU7-23-22-*AH25A-A10-WG	1241	W6	
KTA7-45H High Interrupting Capacity										
2	3	5	7-1/2	6.3...10	130	36	CXU7-30-22-*AH10A-A10-WG	1456	W7	
3	~	10	10	10...16	208	37	CXU7-30-22-*AH16A-A10-WG	1456	W7	
5	5	~	15	14.5...20	260	38	CXU7-30-22-*AH20A-A10-WG	1456	W7	
~	7-1/2	20	20	18...25	325	39	CXU7-30-22-*AH25A-A10-WG	1456	W7	
7-1/2	10	20	25	23...32	416	41	CXU7-37-22-*AH32A-A10-WG	1399	W7	
10	10	25	30	32...45	585	45	CXU7-37-22-*AH45A-A10-WG	1580	W7	
10	15	30	~	32...45	585	46	CXU7-43-22-*AH45A-A10-WG	1640	W7	

Includes:

- Type 12 / 4 enclosure - watertight, dusttight
- KT7 "Type E/F" Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25[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 F105 for factory installed modifications

Contactor
AC Coil Codes (*)

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	380V-400V	440V
480	440V	480V
600	550v	600V

① Horsepower ratings shown in the table above are for reference. The final selection of the manual starter 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-4.0A.

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

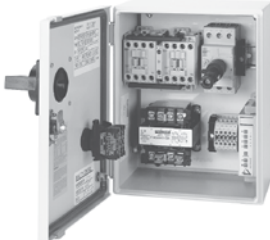
③ CXU7 may be applied to single phase loads. Contact factory for these applications.

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. Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.

⑥ KAIC Assembly Rating Index. See pages F71-F73 for Application Rating Guide.

Enclosed Reversing Combination Controller, Electronic DC Coil - 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 ⑤	Price	Dimension Code	
Three Phase										
200V	230V	460V	575V							
KTA7-25S Standard Interrupting Capacity										
~	~	~	~	0.10...0.16	2.1	1	CXU7-9E-22-*AS0.16A-A10-WG	1265	W6	
~	~	~	~	0.16...0.25	3.3	2	CXU7-9E-22-*AS0.25A-A10-WG	1265	W6	
~	~	~	~	0.25...0.40	5.2	3	CXU7-9E-22-*AS0.4A-A10-WG	1265	W6	
~	~	~	~	0.40...0.63	8.2	4	CXU7-9E-22-*AS0.63A-A10-WG	1299	W6	
~	~	~	1/2	0.63...1.0	13	5	CXU7-9E-22-*AS1.0A-A10-WG	1299	W6	
~	~	1/2	3/4	1.0...1.6	21	6	CXU7-9E-22-*AS1.6A-A10-WG	1299	W6	
1/2	1/2	1	1-1/2	1.6...2.5	33	7	CXU7-9E-22-*AS2.5A-A10-WG	1299	W6	
3/4	3/4	2	3	2.5...4	52	8	CXU7-9E-22-*AS4.0A-A10-WG	1299	W6	
1	1-1/2	3	~	4...6.3	82	9	CXU7-9E-22-*AS6.3A-A10-WG	1299	W6	
2	3	5	~	6.3...10	130	11	CXU7-12E-22-*AS10A-A10-WG	1390	W6	
3	~	10	~	10...16	208	12	CXU7-16E-22-*AS16A-A10-WG	1478	W6	
5	5	~	~	14.5...20	260	15	CXU7-23E-22-*AS20A-A10-WG	1531	W6	
KTA7-25H High Interrupting Capacity										
1/2	1/2	1	1-1/2	1.6...2.5	33	17	CXU7-9E-22-*AH2.5A-A10-WG	1363	W6	
3/4	3/4	2	3	2.5...4	52	19	CXU7-9E-22-*AH4.0A-A10-WG	1363	W6	
1	1-1/2	3	5	4...6.3	82	22	CXU7-9E-22-*AH6.3A-A10-WG	1363	W6	
2	3	5	7-1/2	6.3...10	130	24	CXU7-12E-22-*AH10A-A10-WG	1499	W6	
3	~	10	10	10...16	208	28	CXU7-16E-22-*AH16A-A10-WG	1550	W6	
5	5	~	~	14.5...20	260	31	CXU7-23E-22-*AH20A-A10-WG	1604	W6	
7-1/2	7-1/2	15	~	18...25	325	33	CXU7-23E-22-*AH25A-A10-WG	1604	W6	
KTA7-45H High Interrupting Capacity										
2	3	5	7-1/2	6.3...10	130	36	CXU7-30E-22-*AH10A-A10-WG	1882	W7	
3	~	10	10	10...16	208	37	CXU7-30E-22-*AH16A-A10-WG	1882	W7	
5	5	~	15	14.5...20	260	38	CXU7-30E-22-*AH20A-A10-WG	1882	W7	
~	7-1/2	20	20	18...25	325	39	CXU7-30E-22-*AH25A-A10-WG	1882	W7	
7-1/2	10	20	25	23...32	416	41	CXU7-37E-22-*AH32A-A10-WG	2062	W7	
10	10	25	30	32...45	585	45	CXU7-37E-22-*AH45A-A10-WG	2146	W7	
10	15	30	~	32...45	585	46	CXU7-43E-22-*AH45A-A10-WG	2220	W7	

Includes:

- Type 12 / 4 enclosure - watertight, dusttight
- KT7 "Type E/F" Motor Controller with 1 NO front mount Auxiliary Contact (Cat #: KT7-PE1-10)
- Terminal Adaptor for Type E Applications (Cat.# KT7-25[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 F105 for factory installed modifications

Contactor Electronic DC Coil Codes (*) ⑤

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

Ordering Instructions

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

① Horsepower ratings shown in the table above are for reference. The final selection of the manual starter 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-4.0A.

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 KALC Assembly Rating Index. See pages F71-F73 for Application Rating Guide.

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

Description	Add Suffix to Catalog Number	Price Adder
Pilot Devices ①		
START-STOP multi-function pushbutton	-3U 	195
ON-OFF multi-function pushbutton	-4U 	195
FOR-STOP-REV multi-function pushbutton	-3U	350
UP-STOP-DOWN multi-function pushbutton	-4U	350
OPEN-STOP-CLOSE multi-function pushbutton	-5U	350
HAND-AUTO selector switch	-5 	195
OFF-ON selector switch	-6 	195
HAND-OFF-AUTO selector switch	-7 	195
FOR-OFF-REV selector switch	-6	195
UP-OFF-DOWN selector switch	-7	195
OPEN-OFF-CLOSE selector switch	-8	195
Pilot light only ③	-1 	134
Pilot lights only (2) ③	-2 	260
Pilot light w/ START-STOP multi-function pushbutton ③	-13U 	330
Pilot light w/ ON-OFF multi-function pushbutton ③	-14U 	330
Pilot light w/ HAND-AUTO selector switch ③	-15 	330
Pilot light w/ OFF-ON selector switch ③	-16 	330
Pilot light w/ HAND-OFF-AUTO selector switch ③	-17 	330
Control Power Transformer		
(with fused primary and secondary)		
Primary volts Secondary volts	Replace (*) in catalog # with the following codes ②	
208 120	XA	320
240 120	XB 	320
480 120	XC 	320
50 watt 575	XD	320
Standard Capacity 380	XG	320
240 24	XE 	320
480 24	XF 	320
600 24	XJ 	320
KT7 Auxiliaries & Trip Contacts - Front Mount 		
1 NO Auxiliary	-A10	55
1 NC Auxiliary	-A01	55
1 NO + 1 NC Auxiliary	-A11	55
2 NO Auxiliaries	-A20	55
1 NO SC+OL + 1 NC Auxiliary	-T10A01	79
1 NO SC+OL + 1 NO Auxiliary	-T10A10	79
KT7 Auxiliaries - Side Mount 		
2 NC Auxiliaries	-AS02	79
2 NO Auxiliaries	-AS20	79
1 NO + 1 NC Auxiliary	-AS11	79



- 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.

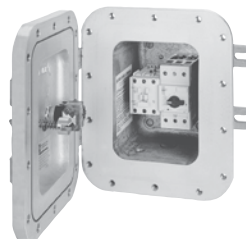
Description	Add Suffix to Catalog Number	Price Adder
Additional KT7 Trip Contacts - Side Mount		
1 NO SC+OL + 1 NO SC	-R00	94
1 NO SC+OL + 1 NC SC	-R01	94
1 NC SC+OL + 1 NO SC	-R10	94
KT7 Accessories		
Undervoltage Release Module	Select coil voltage from table below	-UA-* 126
Shunt Release Module		-AA-* 126
CA7 Auxiliary Contacts		
1 NO Auxiliary	-S10 	45
1 NC Auxiliary	-S01 	45
1 NO + 1 NC Auxiliary	-S11	57
2 NO Auxiliaries	-S20	57
2 NC Auxiliaries	-S02	57
1 NO + 2 NC Auxiliary	-S12	64
2 NO + 1 NC Auxiliary	-S21	64
3 NO Auxiliaries	-S30	64
3 NC Auxiliaries	-S03	64
1 NO + 3 NC Auxiliary	-S13	75
3 NO + 1 NC Auxiliary	-S31	75
2 NO + 2 NC Auxiliary	-S22	75
4 NO Auxiliaries	-S40	75
4 NC Auxiliaries	-S04	75
Alternate Aux. Contact Arrangement (CA7 only)		
1 NC in lieu of standard 1 NO	-SX10	17
2 NC in lieu of standard 2 NO (on CXU7 only)	-SX2	17
CA7 Contactor Accessories		
Electronic Interface	-JE ④ 	94
Surge Suppressor RC	-C	54
Surge Suppressor Varistor	-V	40
Unwired Terminal Blocks Specify quantity (▼)	-▼TB	22

-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

- ③ Pilot Lights may be applied with 24VAC/VDC, 120VAC or 240VAC Control Circuit.
Pilot Lights with 380 VAC...575VAC require a control circuit transformer.
- ④ CRI7E-24 will be used. CRI7E-12 by special order only.

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

Explosion Proof - Type 7 / 9 Enclosure (with Type 4 Gaskets)								
								
Amp / Horsepower Rating								
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Response Current	Catalog Number	Price	Dimension Code
Three Phase								
200V	230V	460V	575V					
KTA7-25S Standard Interrupting Capacity								
~	~	~	~	0.10...0.16	2.1	CX7-9-10-*-AS0.16A-A10-EZ	2072	EZ
~	~	~	~	0.16...0.25	3.3	CX7-9-10-*-AS0.25A-A10-EZ	2072	EZ
~	~	~	~	0.25...0.40	5.2	CX7-9-10-*-AS0.4A-A10-EZ	2072	EZ
~	~	~	~	0.40...0.63	8.2	CX7-9-10-*-AS0.63A-A10-EZ	2114	EZ
~	~	~	1/2	0.63...1.0	13	CX7-9-10-*-AS1.0A-A10-EZ	2114	EZ
~	~	1/2	3/4	1.0...1.6	21	CX7-9-10-*-AS1.6A-A10-EZ	2114	EZ
1/2	1/2	1	1-1/2	1.6...2.5	33	CX7-9-10-*-AS2.5A-A10-EZ	2114	EZ
3/4	3/4	2	3	2.5...4	52	CX7-9-10-*-AS4.0A-A10-EZ	2114	EZ
1	1-1/2	3	~	4...6.3	82	CX7-9-10-*-AS6.3A-A10-EZ	2114	EZ
2	3	5	~	6.3...10	130	CX7-12-10-*-AS10A-A10-EZ	2152	EZ
3	~	10	~	10...16	208	CX7-16-10-*-AS16A-A10-EZ	2218	EZ
5	5	~	~	14.5...20	260	CX7-23-10-*-AS20A-A10-EZ	2241	EZ
KTA7-25H High Interrupting Capacity								
1/2	1/2	1	1-1/2	1.6...2.5	33	CX7-9-10-*-AH2.5A-A10-EZ	2188	EZ
3/4	3/4	2	3	2.5...4	52	CX7-9-10-*-AH4.0A-A10-EZ	2188	EZ
1	1-1/2	3	5	4...6.3	82	CX7-9-10-*-AH6.3A-A10-EZ	2188	EZ
2	3	5	7-1/2	6.3...10	130	CX7-12-10-*-AH10A-A10-EZ	2280	EZ
3	~	10	10	10...16	208	CX7-16-10-*-AH16A-A10-EZ	2303	EZ
5	5	~	~	14.5...20	260	CX7-23-10-*-AH20A-A10-EZ	2326	EZ
7-1/2	7-1/2	15	~	18...25	325	CX7-23-10-*-AH25A-A10-EZ	2326	EZ
KTA7-45H High Interrupting Capacity								
2	3	5	7-1/2	6.3...10	130	CX7-30-10-*-AH10A-A10-EZ	2551	EZ
3	~	10	10	10...16	208	CX7-30-10-*-AH16A-A10-EZ	2551	EZ
5	5	~	15	14.5...20	260	CX7-30-10-*-AH20A-A10-EZ	2551	EZ
~	7-1/2	20	20	18...25	325	CX7-30-10-*-AH25A-A10-EZ	2551	EZ
7-1/2	10	20	25	23...32	416	CX7-30-10-*-AH32A-A10-EZ	2593	EZ
10	10	25	30	32...45	585	CX7-37-10-*-AH45A-A10-EZ	2673	EZ
10	15	30	~	32...45	585	CX7-43-10-*-AH45A-A10-EZ	2696	EZ

Includes:

- Class I, Group B, C & D –
Class II, Group E, F & G enclosure
- KT7 “Type E” Self-protected 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[45]-TE)
- CA7 contactor (for remote operation), AC coil
- Power wiring

Modifications (Factory Assembled)

Description	Change “A10” in Cat. # to...	Price Adder
KT7 Auxiliaries & Trip Contacts - Front Mount		
1 NO Auxiliary	-A10	55
1 NC Auxiliary	-A01	55
1 NO + 1 NC Auxiliary	-A11	55
2 NO Auxiliaries	-A20	55
1 NO SC+OL + 1 NC Auxiliary	-T10A01	79
1 NO SC+OL + 1 NO Auxiliary	-T10A10	79
CA7 Contactor Auxiliaries		
1 NC Auxiliary	-S01	45
1 NO Auxiliary	-S10	45
CA7 Contactor Accessories		
Electronic Interface	-JE	94
Surge Suppressor RC	-C	54
Surge Suppressor Varistor	-V	40
Surge Suppressor Diode	-D	52
Enclosure Modifications		
Dual START/STOP pushbutton	-3	195
ON/OFF selector switch	-6	195
H-O-A	-7	195
Breather/Drain	-BD	110

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	380V-400V	440V
480	440V	480V
600	550v	600V

Ordering Instructions

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

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

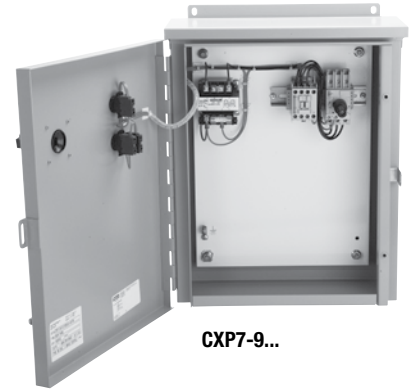
- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4.0A.

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 Other voltages available, see Section A in this catalog. Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.

Type E/F Simplex & Duplex Pump Controllers



Simplex Pump Controllers

A single KTA7 motor controller plus matching CA7 contactor can be combined in an enclosure as a Simplex Combination Controller for pumping applications. Additional space is provided for the customer to field addition of time clocks or float switches as required by the application. An environmentally approved thru-the-door handle provides for a required disconnect. These pump panels can be supplied with Suitable for Service Entrance (SUSE) label on demand. Type E/F pump panels are less expensive than the classic Construction Type A (Fusible) or Construction Type C (MCCB) versions shown in Section C of this catalog.

Type E/F Simplex Pump Controller Panels include:

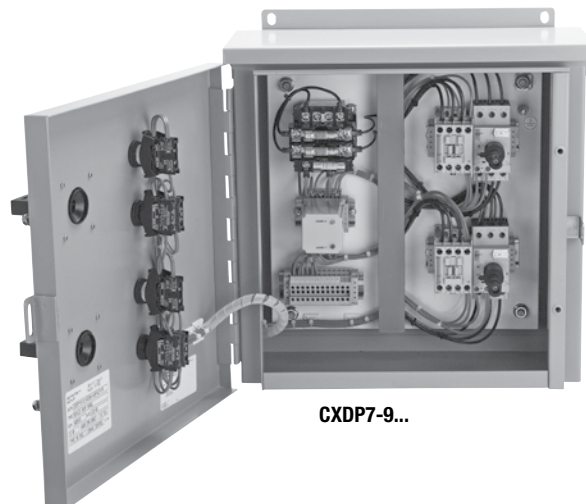
- Contactor (with AC coil)
- Type E Self-protected motor controller
- “Start” Momentary Push Button
- “HOA” Selector Switch
- A minimum of 6” x 10” extra back pan space
- UL Type rated enclosure

Duplex Pump Controllers

Two starter duplex panels can be fed from one power source or two power sources and include lead/lag control circuitry to meet customers’ need in pumping and many other applications. Two environmentally approved thru-the-door handle disconnect mechanisms means no main feeder device is required and smaller and less expensive panel than a classic duplex panel as offered in Section C of this catalog. The following pages include a selection of duplex controllers and you can contact your Sprecher + Schuh representative to modify the selection.

Type E/F Duplex Pump Controller Panels include:

- (2) Contactors (AC coil) and (2) Type E/F self protected motor controllers
- (1) Electronic alternating relay
- (1) UL type rated enclosure
- Designed per alternation control diagram shown at bottom of page F115



Series CXP7 & Type E/F Combo Pump Panel

Max. Horsepower ①②③ Three Phase				Current Adjustment Range (A)	Magnetic Response Current	Type 3R (M3) Rainproof (Metal)	Price	Dimension Code	Type 4X (F4) Watertight Corrosion Resistant Non-metallic	Price	Dimension Code
200V	230V	460V	575V			Catalog Number ④			Catalog Number ④		
KTA7-25S Standard Interrupting Capacity											
~	~	~	~	0.10...0.16	2.1	CXP7-9-10-*-AS0.16A-A10-RG	1191	0	CXP7-9-10-*-AS0.16A-A10-CG	R/F	R/F
~	~	~	~	0.16...0.25	3.3	CXP7-9-10-*-AS0.25A-A10-RG	1191	0	CXP7-9-10-*-AS0.25A-A10-CG	R/F	R/F
~	~	~	~	0.25...0.40	5.2	CXP7-9-10-*-AS0.4A-A10-RG	1191	0	CXP7-9-10-*-AS0.4A-A10-CG	R/F	R/F
~	~	~	~	0.40...0.63	8.2	CXP7-9-10-*-AS0.63A-A10-RG	1191	0	CXP7-9-10-*-AS0.63A-A10-CG	R/F	R/F
~	~	~	1/2	0.63...1.0	13	CXP7-9-10-*-AS1.0A-A10-RG	1191	0	CXP7-9-10-*-AS1.0A-A10-CG	R/F	R/F
~	~	1/2	3/4	1.0...1.6	21	CXP7-9-10-*-AS1.6A-A10-RG	1191	0	CXP7-9-10-*-AS1.6A-A10-CG	R/F	R/F
1/2	1/2	1	1-1/2	1.6...2.5	33	CXP7-9-10-*-AS2.5A-A10-RG	1191	0	CXP7-9-10-*-AS2.5A-A10-CG	R/F	R/F
3/4	3/4	2	3	2.5...4	52	CXP7-9-10-*-AS4.0A-A10-RG	1191	0	CXP7-9-10-*-AS4.0A-A10-CG	R/F	R/F
1	1-1/2	3	~	4...6.3	82	CXP7-9-10-*-AS6.3A-A10-RG	1191	0	CXP7-9-10-*-AS6.3A-A10-CG	R/F	R/F
2	3	5	~	6.3...10	130	CXP7-12-10-*-AS10A-A10-RG	1236	0	CXP7-12-10-*-AS10A-A10-CG	R/F	R/F
3	~	10	~	10...16	208	CXP7-16-10-*-AS16A-A10-RG	1305	0	CXP7-16-10-*-AS16A-A10-CG	R/F	R/F
5	5	~	~	14.5...20	260	CXP7-23-10-*-AS20A-A10-RG	1332	0	CXP7-23-10-*-AS20A-A10-CG	R/F	R/F
KTA7-25H High Interrupting Capacity											
1/2	1/2	1	1-1/2	1.6...2.5	33	CXP7-9-10-*-AH2.5A-A10-RG	1270	0	CXP7-9-10-*-AH2.5A-A10-CG	R/F	R/F
3/4	3/4	2	3	2.5...4	52	CXP7-9-10-*-AH4.0A-A10-RG	1270	0	CXP7-9-10-*-AH4.0A-A10-CG	R/F	R/F
1	1-1/2	3	5	4...6.3	82	CXP7-9-10-*-AH6.3A-A10-RG	1270	0	CXP7-9-10-*-AH6.3A-A10-CG	R/F	R/F
2	3	5	7-1/2	6.3...10	130	CXP7-12-10-*-AH10A-A10-RG	1370	0	CXP7-12-10-*-AH10A-A10-CG	R/F	R/F
3	~	10	10	10...16	208	CXP7-16-10-*-AH16A-A10-RG	1395	0	CXP7-16-10-*-AH16A-A10-CG	R/F	R/F
5	5	~	~	14.5...20	260	CXP7-23-10-*-AH20A-A10-RG	1422	0	CXP7-23-10-*-AH20A-A10-CG	R/F	R/F
7-1/2	7-1/2	15	~	18...25	325	CXP7-23-10-*-AH25A-A10-RG	1422	0	CXP7-23-10-*-AH25A-A10-CG	R/F	R/F
KTA7-45H High Interrupting Capacity											
2	3	5	7-1/2	6.3...10	130	CXP7-30-10-*-AH10A-A10-RG	1601	Q	CXP7-30-10-*-AH10A-A10-CG	R/F	R/F
3	~	10	10	10...16	208	CXP7-30-10-*-AH16A-A10-RG	1601	Q	CXP7-30-10-*-AH16A-A10-CG	R/F	R/F
5	5	~	15	14.5...20	260	CXP7-30-10-*-AH20A-A10-RG	1601	Q	CXP7-30-10-*-AH20A-A10-CG	R/F	R/F
~	7-1/2	20	20	18...25	325	CXP7-30-10-*-AH25A-A10-RG	1601	Q	CXP7-30-10-*-AH25A-A10-CG	R/F	R/F
7-1/2	10	20	25	23...32	416	CXP7-30-10-*-AH32A-A10-RG	1601	Q	CXP7-30-10-*-AH32A-A10-CG	R/F	R/F
10	10	25	30	32...45	585	CXP7-37-10-*-AH45A-A10-RG	1722	Q	CXP7-37-10-*-AH45A-A10-CG	R/F	R/F
10	15	30	~	32...45	585	CXP7-43-10-*-AH45A-A10-RG	1757	Q	CXP7-43-10-*-AH45A-A10-CG	R/F	R/F

NOTE: Catalog Numbers, list Prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying Catalog Numbers and list Prices.

R/F - Experience has shown that applications using non-metallic enclosures often require customized pump panels (i.e. Door-in-Door or unique control circuit). Contact your Sprecher + Schuh representative for a customized price.

- ① Horsepower ratings shown in the table above are for reference. *The final selection of the manual starter 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-4.0A.
- ② Magnetic trip is fixed at 13x the maximum value of the current adjustment range.
- ③ CXP7 may be applied to single phase loads. See footnote 1 for device selection criteria. To order single phase unit, change "CXP7" in catalog number to "CBX7". Three pole series connection will be provided. Ex: Change CXP7-9-10-*-0.16A-A10-RG to CBX7-9-10-*-0.16A-A10-RG.
- ④ A red and yellow handle may be selected instead of the standard gray and black handle. Change "RG" suffix to "CJ". Ex: Change CXP7-9-10-*-0.16A-A10-RG to CXP7-9-10-*-0.16A-A10-RJ.

Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Factory Modifications available	See pages C89-C92

Series CXDP7 with Type E/F Combination Controller

Max. Horsepower Three Phase				Current Adjustment Range (A)	Magnetic Response Current	Type 3R (M3) Rainproof (Metal)	Price	Dimension Code	Type 4X (F4) Watertight Corrosion Resistant Non-metallic	Price	Dimension Code
200V	230V	460V	575V			Catalog Number			Catalog Number		
KTA7-25S Standard Interrupting Capacity											
~	~	~	~	0.10...0.16	2.1	CXDP7-9-10-*-AS0.16A-A10-RG	R/F		CXDP7-9-10-*-AS0.16A-A10-CG	R/F	R/F
~	~	~	~	0.16...0.25	3.3	CXDP7-9-10-*-AS0.25A-A10-RG	R/F		CXDP7-9-10-*-AS0.25A-A10-CG	R/F	R/F
~	~	~	~	0.25...0.40	5.2	CXDP7-9-10-*-AS0.4A-A10-RG	R/F		CXDP7-9-10-*-AS0.4A-A10-CG	R/F	R/F
~	~	~	~	0.40...0.63	8.2	CXDP7-9-10-*-AS0.63A-A10-RG	R/F		CXDP7-9-10-*-AS0.63A-A10-CG	R/F	R/F
~	~	~	1/2	0.63...1.0	13	CXDP7-9-10-*-AS1.0A-A10-RG	R/F		CXDP7-9-10-*-AS1.0A-A10-CG	R/F	R/F
~	~	1/2	3/4	1.0...1.6	21	CXDP7-9-10-*-AS1.6A-A10-RG	R/F		CXDP7-9-10-*-AS1.6A-A10-CG	R/F	R/F
1/2	1/2	1	1-1/2	1.6...2.5	33	CXDP7-9-10-*-AS2.5A-A10-RG	R/F		CXDP7-9-10-*-AS2.5A-A10-CG	R/F	R/F
3/4	3/4	2	3	2.5...4	52	CXDP7-9-10-*-AS4.0A-A10-RG	R/F		CXDP7-9-10-*-AS4.0A-A10-CG	R/F	R/F
1	1-1/2	3	~	4...6.3	82	CXDP7-9-10-*-AS6.3A-A10-RG	R/F		CXDP7-9-10-*-AS6.3A-A10-CG	R/F	R/F
2	3	5	~	6.3...10	130	CXDP7-12-10-*-AS10A-A10-RG	R/F		CXDP7-12-10-*-AS10A-A10-CG	R/F	R/F
3	~	10	~	10...16	208	CXDP7-16-10-*-AS16A-A10-RG	R/F		CXDP7-16-10-*-AS16A-A10-CG	R/F	R/F
5	5	~	~	14.5...20	260	CXDP7-23-10-*-AS20A-A10-RG	R/F		CXDP7-23-10-*-AS20A-A10-CG	R/F	R/F
KTA7-25H High Interrupting Capacity											
1/2	1/2	1	1-1/2	1.6...2.5	33	CXDP7-9-10-*-AH2.5A-A10-RG	R/F		CXDP7-9-10-*-AH2.5A-A10-CG	R/F	R/F
3/4	3/4	2	3	2.5...4	52	CXDP7-9-10-*-AH4.0A-A10-RG	R/F		CXDP7-9-10-*-AH4.0A-A10-CG	R/F	R/F
1	1-1/2	3	5	4...6.3	82	CXDP7-9-10-*-AH6.3A-A10-RG	R/F		CXDP7-9-10-*-AH6.3A-A10-CG	R/F	R/F
2	3	5	7-1/2	6.3...10	130	CXDP7-12-10-*-AH10A-A10-RG	R/F		CXDP7-12-10-*-AH10A-A10-CG	R/F	R/F
3	~	10	10	10...16	208	CXDP7-16-10-*-AH16A-A10-RG	R/F		CXDP7-16-10-*-AH16A-A10-CG	R/F	R/F
5	5	~	~	14.5...20	260	CXDP7-23-10-*-AH20A-A10-RG	R/F		CXDP7-23-10-*-AH20A-A10-CG	R/F	R/F
7-1/2	7-1/2	15	~	18...25	325	CXDP7-23-10-*-AH25A-A10-RG	R/F		CXDP7-23-10-*-AH25A-A10-CG	R/F	R/F
KTA7-45H High Interrupting Capacity											
2	3	5	7-1/2	6.3...10	130	CXDP7-30-10-*-AH10A-A10-RG	R/F		CXDP7-30-10-*-AH10A-A10-CG	R/F	R/F
3	~	10	10	10...16	208	CXDP7-30-10-*-AH16A-A10-RG	R/F		CXDP7-30-10-*-AH16A-A10-CG	R/F	R/F
5	5	~	15	14.5...20	260	CXDP7-30-10-*-AH20A-A10-RG	R/F		CXDP7-30-10-*-AH20A-A10-CG	R/F	R/F
~	7-1/2	20	20	18...25	325	CXDP7-30-10-*-AH25A-A10-RG	R/F		CXDP7-30-10-*-AH25A-A10-CG	R/F	R/F
7-1/2	10	20	25	23...32	416	CXDP7-30-10-*-AH32A-A10-RG	R/F		CXDP7-30-10-*-AH32A-A10-CG	R/F	R/F
10	10	25	30	32...45	585	CXDP7-37-10-*-AH45A-A10-RG	R/F		CXDP7-37-10-*-AH45A-A10-CG	R/F	R/F
10	15	30	~	32...45	585	CXDP7-43-10-*-AH45A-A10-RG	R/F		CXDP7-43-10-*-AH45A-A10-CG	R/F	R/F

Note: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.

R/F - Experience has shown that applications using non-metallic enclosures often require customized pump panels (i.e. Door-in-Door or unique control circuit). Contact your Sprecher + Schuh representative for a customized price.

Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Factory Modifications available	See pages C89-C92